Government of the People's Republic of Bangladesh

SCHEDULE OF RATES-2022

[3rd Edition, August 2025]

Local Government Engineering Department (LGED)

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

স্থানীয় সরকার প্রকৌশল অধিদপ্তর
শেরে বাংলা নগর, আগারগাঁও
ঢাকা-১২০৭।
www.lged.gov.bd

স্মারক নম্বর: ৪৬.০২.০০০০.২০২.৯৯.০০১.২১- ১৫৮৩ তারিখ: ২১-০৮-২০২৫ খ্রিঃ।

প্রতি,

(১) **নির্বাহী প্রকৌশলী**
স্থানীয় সরকার প্রকৌশল অধিদপ্তর
জেলা: _____ (সকল)।

(২) **উপজেলা প্রকৌশলী**
স্থানীয় সরকার প্রকৌশল অধিদপ্তর
উপজেলা: _____(সকল)।

বিষয়: এলজিইডি'র দর তফসিল (Schedule of Rates)-2022 এর সকল আইটেমে সরকার নির্ধারিত মূসক (VAT) হালনাগাদ প্রসঙ্গে।

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, স্থানীয় সরকার প্রকৌশল অধিদপ্তরের দর তফসিল (Schedule of Rates-2022) -এ সকল আইটেমে দর প্রস্তুতকালীন সময়ে সরকার নির্ধারিত ৭.৫% মূসক (VAT) বিবেচনা করে একক দর প্রস্তুত হয়েছিল এবং সে-অনুযায়ী ঠিকাদারের বিল হতে উৎসে ৭.৫% মূসক (VAT) কর্তন করা হয়।

বর্তমানে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্মাণ সংস্থার জন্য ১০% মূসক (VAT) নির্ধারণের প্রেক্ষিতে এলজিইডি'র দর তফসিল হালনাগাদ করা হয়েছে যা **'Schedule of Rates-2022 [3rd Edition August 2025]'** নামে অভিহিত হবে। এই হালনাগাদ দর তফসিল পুনরাদেশ না দেয়া পর্যন্ত বলবৎ থাকবে। এলজিইডি'র আওতাধীন সকল উন্নয়ন ও রক্ষণাবেক্ষণ কার্যক্রমের প্রাক্কলন প্রস্তুতের ক্ষেত্রে এ-দর প্রযোজ্য হবে এবং কেবলমাত্র দাপ্তরিক কাজে ব্যবহার করতে হবে।

হালনাগাদ দর তফসিলের RSEPS Version সংগ্রহের জন্য নিম্নোক্ত পদ্ধতি অনুসরণ করতে হবে।

RSEPS July 2025 (New Version)	অফিসিয়াল ই-মেইলে প্রেরিত লিংক থেকে **RSEPS_NewVer_RateUpdate_Aug2025** ফাইলটি ডাউনলোড করে বিদ্যমান RSEPS এর মধ্যে **Import** করতে হবে।
RSEPS_2022 (Old Version)	অফিসিয়াল ই-মেইলে প্রেরিত লিংক থেকে '**RSEPS_2022_Patch_RateUpdate_Aug2025** ফাইলটি ডাউনলোড করে ডাবল ক্লিক করে বিদ্যমান RSEPS_2022 **Update** করতে হবে।

উল্লেখ্য, হালনাগাদ দর তফসিলের পিডিএফ ভার্সন নিয়মানুযায়ী এলজিইডি'র ওয়েবসাইটে (www.lged.gov.bd) আপলোড করা হয়েছে।

২১/০৮/২০২৫

(মোঃ আব্দুর রশীদ মিয়া)
প্রধান প্রকৌশলী (চলতি দায়িত্ব)
ফোন: ০২-৫৫০০৭২৪৮
ই-মেইল: cc@lged.gov.bd

অনুলিপি:

১। অতিরিক্ত প্রধান প্রকৌশলী _____ (সকল), এলজিইডি, সদর দপ্তর, ঢাকা।
২। অতিরিক্ত প্রধান প্রকৌশলী, এলজিইডি, বিভাগ: _____ (সকল)।
৩। তত্ত্বাবধায়ক প্রকৌশলী _____ (সকল), এলজিইডি, সদর দপ্তর, ঢাকা।
৪। তত্ত্বাবধায়ক প্রকৌশলী, এলজিইডি, অঞ্চল: _____ (সকল)।
৫। প্রকল্প পরিচালক, _____ (সকল), এলজিইডি, সদর দপ্তর, ঢাকা।
৬। সহকারী প্রকৌশলী, জেলা পরিষদ, জেলা: _____ ।
৭। সহকারী প্রকৌশলী, _____ পৌরসভা, জেলা: _____ ।

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
ব্যয় ব্যবস্থাপনা শাখা-৫
www.mof.gov.bd

নং-০৭.০০.০০০০.১৫৫.১৪.০০১.২০-৪৩৩

তারিখঃ ০৪ জুলাই ২০২২ খ্রিস্টাব্দ / ২০ আষাঢ় ১৪২৯ বঙ্গাব্দ

বিষয়ঃ স্থানীয় সরকার প্রকৌশল অধিদপ্তরের দর তফসিল (Schedule of Rates)-২০২২ সংক্রান্ত।

সূত্রঃ: স্থানীয় সরকার বিভাগের পত্র নং- ৪৬.০০.০০০০.০৯৩.২২.০০৯.২২-১৫২, তারিখ: ১৭/০২/২০২২

উপর্যুক্ত বিষয় ও সূত্রোস্থ পত্রের পরিপ্রেক্ষিতে স্থানীয় সরকার প্রকৌশল অধিদপ্তরের কার্যক্রম পরিচালনা/সম্পাদনের লক্ষ্যে আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত স্থানীয় সরকার প্রকৌশল অধিদপ্তরের দর তফসিল-২০২২ বাস্তবায়নে নিম্নোক্ত শর্তে অর্থ বিভাগের সম্মতি নির্দেশক্রমে জ্ঞাপন করা হলোঃ

শর্তাবলীঃ

ক) এ দর তফসিল "স্থানীয় সরকার প্রকৌশল অধিদপ্তর দর তফসিল-২০২২" শিরোনামে অভিহিত হবে।

খ) স্থানীয় সরকার প্রকৌশল অধিদপ্তরের বিশেষায়িত কাজের আইটেমসমূহ বাদে অন্যান্য সকল ভিত্তি আইটেম/ম্যাটেরিয়াল দর (Basic Item/Material Rate) এবং কার্য বাস্তবায়ন আইটেমের (Work Execution Item rate) দরের ক্ষেত্রে ইতঃপূর্বে অর্থ বিভাগ কর্তৃক ২১ জুন ২০২২ তারিখের ৩৮৫ সংখ্যক স্মারকে গণপূর্ত অধিদপ্তর এবং ১ ডিসেম্বর ২০২১ তারিখের ৫৮০ সংখ্যক স্মারকে বাংলাদেশ রেলওয়ের জন্য অনুমোদিত দর তফসিলদ্বয় প্রযোজ্য হবে;

গ) স্থানীয় সরকার প্রকৌশল অধিদপ্তরের বিশেষায়িত কাজের আইটেমসমূহ ব্যতীত অন্যান্য আইটেমের বাল্ক দরের ক্ষেত্রে গণপূর্ত অধিদপ্তরের সর্বশেষ অনুমোদিত দর তফসিলের দর ও রিটেল দরের ক্ষেত্রে গণপূর্ত অধিদপ্তরের সর্বশেষ অনুমোদিত দর তফসিলের দরের সাথে সামঞ্জস্য রেখে বাংলাদেশ রেলওয়ের জন্য নির্ধারিত দর প্রযোজ্য হবে;

ঘ) প্রাক্কলন প্রণয়নের সময় ০৫(পাঁচ) কোটি টাকা মূল্যমানের নিম্নের প্রকল্পগুলোর ক্ষেত্রে রিটেল (খুচরা) মূল্য প্রযোজ্য হবে;

ঙ) এ দর তফসিলের কোন আইটেমের দরের সাথে যদি গণপূর্ত অধিদপ্তরের দর তফসিলের কোন আইটেমের দরে অসামঞ্জস্য পরিলক্ষিত হয় তবে সেক্ষেত্রে গণপূর্ত অধিদপ্তরের দর তফসিলের অনুমোদিত দর প্রযোজ্য হবে;

চ) দর তফসিলের অন্তর্ভুক্ত আইটেমসমূহের ক্ষেত্রে সময়ে সময়ে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্ধারিত মূল্য সংযোজন কর (ভ্যাট), আয়কর, শুল্ক ও অন্যান্য ডিউটি প্রযোজ্য হবে;

ছ) আইটেম সমূহের স্পেসিফিকেশেন বাংলাদেশ ন্যাশনাল বিল্ডিং কোড (বিএনবিসি) এবং দেশে প্রচলিত অন্যান্য কোডসমূহ অনুসরণ করতে হবে;

জ) দর তফসিল অনুযায়ী প্রাক্কলন প্রণয়ন ও অন্যান্য কাজ সম্পাদনে জেনারেল ফাইন্যান্সিয়াল রুলস (জিএফআর), পাবলিক প্রকিউরমেন্ট আইন-২০০৬, পাবলিক প্রকিউরমেন্ট বিধিমালা-২০০৮-সহ যাবতীয় আর্থিক বিধি-বিধান প্রতিপালন করতে হবে;

ঝ) বিশেষ কোন কাজের ক্ষেত্রে বর্তমান দর তফসিল বহির্ভূত কোন আইটেম ব্যবহারের প্রয়োজন হলে দপ্তর/সংস্থা প্রধানের অনুমতি সাপেক্ষে প্রচলিত বাজার দর অনুযায়ী উক্ত আইটেমের বিশ্লেষণী দর অর্থ বিভাগের সর্বশেষ আর্থিক ক্ষমতা অর্পণ অনুযায়ী অনুমোদন করা যাবে;

ঞ) এ অনুমোদিত দর তফসিল অনতিবিলম্বে স্থানীয় সরকার প্রকৌশল অধিদপ্তরের ওয়েবসাইটে আপলোড করতে হবে।

চলমান পাতা-০২

২। উপরিউক্ত দর তফসিল আগামী ০৩ (তিন) বছর বহাল থাকবে এবং তা অবিলম্বে কার্যকর হবে। ।

৪/৭/২০২২

(চৌধুরী আশরাফুল করিম)
সিনিয়র সহকারী সচিব
ফোন: ০২-২২৩৩৫৬০৩৭
ই-মেইল: chashraful@finance.gov.bd

সচিব
স্থানীয় সরকার বিভাগ
স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়
বাংলাদেশ সচিবালয়, ঢাকা।

নং-০৭.০০.০০০০.১৫৫.১৪.০০১.২০-৪৩৩

তারিখঃ ০৪ জুলাই ২০২২ খ্রিস্টাব্দ / ২০ আষাঢ় ১৪২৯ বঙ্গাব্দ

সদয় অবগতি ও প্রয়োজনীয় কার্যার্থে অনুলিপি প্রেরণ করা হলো (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

১. মন্ত্রিপরিষদ সচিব, মন্ত্রিপরিষদ বিভাগ/প্রধানমন্ত্রীর মুখ্য সচিব, প্রধানমন্ত্রীর কার্যালয়।
২. সচিব, পরিকল্পনা বিভাগ, পরিকল্পনা মন্ত্রণালয়, আগারগাঁও, ঢাকা।
৩. প্রধান প্রকৌশলী, স্থানীয় সরকার প্রকৌশল অধিদপ্তর, আগারগাঁও, ঢাকা।
৪. সিনিয়র সচিব মহোদয়ের একান্ত সচিব, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
৫. সিনিয়র সিস্টেম এনালিস্ট, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (ওয়েবসাইটে প্রকাশের অনুরোধসহ)।

৪/৭/২০২২

(চৌধুরী আশরাফুল করিম)
সিনিয়র সহকারী সচিব

Signature of the Inter Ministerial Technical Committee for Finalizing the Schedule of Rates of Local Government Engineering Department (LGED)

(Chowdury Ashraful Karim)
Senior Assistant Secretary
Finance Division
Ministry of Finance

(Abu Md. Mohiuddin Quaderi)
Joint Secretary
Local Government Division

(Masud Akhter Khan)
Director (Joint Secretary)
CPTU, Implementation Monitoring and Evaluation Division (IMED)
Ministry of Planning

(Dr. Mohammad Al Amin Siddique)
Professor
Dept. of Civil Engineering
BUET, Dhaka 1000

(Sulekha Rani Basu)
Additional Secretary
Finance Division
Ministry of Finance

(Sk Md. Mohsin)
Chief Engineer (Grade-1)
Local Government Engineering Department (LGED)

(Kabirul Ezdani Khan)
Additional Secretary
Finance Division
Ministry of Finance

Signature of the Co-opt Members of the Inter Ministerial Technical Committee for Finalizing the Schedule of Rates of Local Government Engineering Department (LGED)

(Ajoy Kumar Chakraborty)
Deputy Director (XEN)
Directorate of Desing& Inspection-ii
Bangladesh Power Development Board

(Md. Tanveer Hussein)
Executive Engineer,RHD
Bridge Periodic Maintenance Division
Roads and Highways Department
Sarak Bhaban, Tejgaon, Dhaka

(Md. Abedur Rahman)
Director (Procurement)
Bangladesh Railway
Railbhaban, Dhaka

(Md. Emdadul Huq)
Executive Engineer
Design Division-2
PWD

(A.S.M. Mohsin)
Executive Engineer (Maintenance),
Local Government Engineering Department
Dhaka

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গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
অর্থ বিভাগ, অর্থ মন্ত্রণালয়
ব্যয় ব্যবস্থাপনা শাখা-৫
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নং-০৭.০০.০০০০.১৫৫.১৪.০০২.২৩ - ৮৭

তারিখঃ ২৩ ফেব্রুয়ারি ২০২৩ খ্রিস্টাব্দ / ১০ ফাল্গুন ১৪২৯ বঙ্গাব্দ

বিষয়ঃ মন্ত্রণালয়/বিভাগ/অধিদপ্তরের দর তফসিল (Schedule of Rates) এর ০৪(চার) টি বেসিক আইটেমের দর পুনঃনির্ধারণ সংক্রান্ত।

সূত্রঃ স্থানীয় সরকার বিভাগের পত্র নং- ৪৬.০০.০০০০.০৯৩.২২.০০৯.২২-১০৪৬, তারিখ: ১৮/১২/২০২২

উপর্যুক্ত বিষয় ও সূত্রোস্থ পত্রের পরিপ্রেক্ষিতে দর তফসিল সংক্রান্ত আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত বিভিন্ন মন্ত্রণালয়/বিভাগ/অধিদপ্তরের দর তফসিল (Schedule of Rates) এর ০৪(চার)টি বেসিক আইটেমের সাথে সংশ্লিষ্ট আইটেমসমূহের মধ্যে Brick ০২ (দুই) ক্যাটাগরির, Bitumen ০৬(ছয়) ক্যাটাগরির, Cement ০৬(ছয়) ক্যাটাগরির এবং MS Rod ০৯(নয়) ক্যাটাগরিরসহ মোট ২৩(তেইশ) ক্যাটাগরির বিভিন্ন আইটেমের পুনঃনির্ধারিত দর বাস্তবায়নে নিম্নবর্ণিত শর্তে অর্থ বিভাগের সম্মতি নির্দেশক্রমে জ্ঞাপন করা হলোঃ

শর্তাবলীঃ

ক) পুনঃনির্ধারিত দর সকল দপ্তরের দর তফসিলের ক্ষেত্রে প্রযোজ্য হবে;

খ) পুনঃনির্ধারিত এ দরের ভিত্তিতে সকল দপ্তরের ইতঃপূর্বে অনুমোদিত কার্য বাস্তবায়ন আইটেমসমূহের দর (Work Execution Item rate) সংশোধনপূর্বক অনতিবিলম্বে সংশ্লিষ্ট সকল দপ্তরের ওয়েবসাইটে আপলোড করতে হবে;

গ) ইতঃপূর্বে বিভিন্ন দপ্তরের জন্য অনুমোদিত দর তফসিলে উল্লিখিত সকল শর্ত অপরিবর্তিত থাকবে।

ঘ) এ পুনঃনির্ধারিত দরের ক্ষেত্রে সময়ে সময়ে জাতীয় রাজস্ব বোর্ড কর্তৃক নির্ধারিত মূল্য সংযোজন কর (ভ্যাট), আয়কর, শুল্ক ও অন্যান্য ডিউটি প্রযোজ্য হবে।

২। পরবর্তী নির্দেশ না দেয়া পর্যন্ত এ পুনঃনির্ধারিত দর বহাল থাকবে এবং তা অবিলম্বে কার্যকর হবে।

সংযুক্তিঃ
দর তফসিল সংক্রান্ত আন্তঃমন্ত্রণালয় কারিগরী কমিটি কর্তৃক সুপারিশকৃত দর (১ ফর্দ)।

২৩/২/২০২৩

(চৌধুরী আশরাফুল করিম)
উপসচিব
ফোন: ০২-২২৩৩৫৬০৩৭
ই-মেইল: chashraful@finance.gov.bd

সচিব
স্থানীয় সরকার বিভাগ
স্থানীয় সরকার, পল্লী উন্নয়ন ও সমবায় মন্ত্রণালয়
বাংলাদেশ সচিবালয়, ঢাকা

নং-০৭.০০.০০০০.১৫৫.১৪.০০২.২৩ - ৮৭

তারিখঃ ১৬ ফেব্রুয়ারি ২০২৩ খ্রিস্টাব্দ / ০৩ ফাল্গুন ১৪২৯ বঙ্গাব্দ

সদয় অবগতি ও প্রয়োজনীয় কার্যার্থে অনুলিপি প্রেরণ করা হলো (জ্যেষ্ঠতার ক্রমানুসারে নয়) :

১. মন্ত্রিপরিষদ সচিব, মন্ত্রিপরিষদ বিভাগ/প্রধানমন্ত্রীর মুখ্য সচিব, প্রধানমন্ত্রীর কার্যালয়।
২. সচিব, পরিকল্পনা বিভাগ, পরিকল্পনা মন্ত্রণালয়, আগারগাঁও, ঢাকা।
৩. সচিব, গৃহায়ন ও গণপূর্ত মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা ।

চলমান পাতা-০২

৪. সচিব, সড়ক পরিবহন ও মহাসড়ক বিভাগ, সড়ক পরিবহণ ও সেতু মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা
৫. সচিব, পানি সম্পদ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা
৬. সচিব, রেলপথ মন্ত্রণালয়, রেল ভবন, ঢাকা
৭. প্রধান প্রকৌশলী, গণপূর্ত অধিদপ্তর, সেগুনবাগিচা, ঢাকা
৮. মহাপরিচালক, বাংলাদেশ রেলওয়ে, রেল ভবন, ঢাকা
৯. প্রধান প্রকৌশলী, সড়ক ও জনপথ অধিদপ্তর, তেজগাঁও, ঢাকা
১০. প্রধান প্রকৌশলী, স্থানীয় সরকার প্রকৌশল অধিদপ্তর, আগারগাঁও, ঢাকা।
১১. মহাপরিচালক, বাংলাদেশ পানি উন্নয়ন বোর্ড, ঢাকা
১২. সিনিয়র সচিব মহোদয়ের একান্ত সচিব, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা।
১৩. সিনিয়র সিস্টেম এনালিস্ট, অর্থ বিভাগ, অর্থ মন্ত্রণালয়, বাংলাদেশ সচিবালয়, ঢাকা (ওয়েবসাইটে প্রকাশের অনুরোধসহ)।

২৬/১২/২০২৬

(চৌধুরী আশরাফুল করিম)
উপসচিব

SCHEDULE OF RATES PREPARATION COMMITTEE

Sl. No.	Designation	Status
1	Additional Chief Engineer (Road & Bridge Maintenance)	Convenor
2	Superintending Engineer (Administration)	Member
3	Superintending Engineer (Bridge Design)	Member
4	Superintending Engineer (Road & Building Design)	Member
5	Superintending Engineer (Project Monitoring & Evaluation)	Member
6	Superintending Engineer (Procurement)	Member
7	Superintending Engineer (Road Implementation)	Member
8	Superintending Engineer (Human Resource, Environment & Gender)	Member
9	Superintending Engineer (IWRM, P & D)	Member
10	Superintending Engineer (IWRM, O & M)	Member
11	Superintending Engineer (Planning & Research)	Member
12	Superintending Engineer (Bridge Maintenance)	Member
13	Superintending Engineer (ICT)	Member
14	Superintending Engineer (Quality Control)	Member
15	Superintending Engineer (Road Maintenance)	Member Secretary

General information & instructions to the users

1. This Schedule of Rates has been prepared using the standard analyzing formats with data input as provided by the field offices.
2. For use by the off-shore islands and inaccessible area (Lama, Alikadam, Naikhyongchari, Rowangchari, Ruma, Thanchi, Barkal, Juraichari, Belaichari, Langadu, Baghaichari, Hatia, Moheshkhali, Kutubdia, Saint Martin's Island and Sandwip) the unit rates of different items of works shall be computed by enhancing the rates shown in **Appendix-II**
3. For projects costing more than BDT 5 crore, the bulk price will be used for preparing estimates.
4. All item of works of the Chapter-5, Chapter-7, Chapter-8, Chapter-10, Chapter-12, Chapter-13, Chapter-15 and some items of works from the remaining chapters have been taken from approved PWD Schedule of Rates. If there is any discrepancy between the rate of any item in this document and the rate schedule of the Public Works Department, the approved rate in the Public Works Department's rate schedule must apply.
5. In order to prepare estimates and other tasks according to the pricing schedule, all financial regulations, including the General Financial Regulations (GFR) and Public Procurement Act-2006, Public Procurement Rules-2008 must be followed.
6. All unit rates are inclusive of carriage of all materials and have been worked out so as to cover the full compensation of all materials, labour, equipment and machinery, tools and plants, overhead/incidentals, etc. necessary to complete the work in all respect required under the respective item. The unit rates are also inclusive of all duties and taxes and a certain amount of profit for the contractors. In the relevant cases, it has further taken into account the testing, installation and maintenance expense. However, in a few cases, the costs for some of the major construction materials have been itemized separately. For example, the cost of reinforcement has been taken out from the item on Reinforced Cement Concrete (R.C.C) and shown separately.
7. All items of works, contained in this book, have been described in a precise manner. The Tender Documents should accompany Technical Specifications detailing all procedures in addition to the short description of the Cost Estimates/BOQ and the features shown on the Drawings.
8. Departmental supply of new construction materials is totally discouraged as restricted under the prevailing Government Rules. However, some specific materials, becoming scarce in this country occasionally, necessitate their departmental supply. Such provisions may be kept in the Tender Documents as an exception clearly stating the corresponding price(s) for cost recovery. The delivery rate(s) for such material(s) should correlate the exact amount as considered against them in the Analysis of Rates. All costs of departmentally supplied material(s) shall be recovered from the Contractor(s) at this(ese) rate(s) for the entire supply.
9. For the purpose of preparation of estimates in the cases where old materials would be re-used/re-cycled, the damages should be assessed and grouped according to their extent. Such assessment should only be made on undertaking appropriate field survey works in terms of area and thickness/depth. Representative sampling of each group should be made and analyzed in order to assess the expected quantity of salvaged materials.
10. For the purpose of recording the quantity of the salvaged materials and to determine and specify their useable quantities, the old materials should be taken out, properly stacked, accurately measured and the measurements are entered in the Measurement Book (MB). The materials should be stacked in a manner that will allow for the Engineer-in-Charge (E-I-C) to hold random inspections and verification with regard to the quality and quantities of materials as salvaged. The E-I-C shall certify the salvaged materials according to his(her) inspection results. Inventory of the materials shall then only be made and the material(s) be allowed for use in the work(s). The Contractor shall agree with the quantity(ies) of material(s) salvaged and so certified by the E-I-C. The material(s) shall, under no circumstance, be issued to the Contractor(s) before the measurement(s) has (have) been properly entered into the permanent record. The value of the material(s), so supplied, shall be recovered from the Contractor strictly in accordance with the provisions made under paragraph 11. In the case the salvaged materials become more than the shown quantities of the Tender Document/ BOQ, the value of the material(s), in excess to the provisions of the Tender Document/ BOQ, shall also be recovered.

Recovery of such material(s) shall be made exactly at the same rate(s) as was (were) originally stipulated in the Tender Document/BOQ. Such provisions shall specifically be incorporated in the Tender Documents.

11. The expected quantities of the salvaged material(s) should specifically be shown in the Tender Documents along with the rate(s) at which its (their) cost recovery will be made from the Contractor(s). The rate for this item should also be determined by following the procedures as stated under paragraph 10. The cost of recovery may also be shown as lump sum on the basis of approximation. Under no circumstance, the costs of the salvage material(s), shown in the BOQ/Tender Documents, shall be changed even on the ground that it has been found short of the provisions of the BOQ/Tender Documents. These provisions shall specifically be incorporated in the Tender Documents.

12. In case of material(s) issued by the Department or material(s) salvaged from the existing structure(s), VAT and IT shall be deducted on the basis of the gross value payable to the Contractor(s) before any deduction is made on account of the departmental material(s) (new or salvaged). Rules circulated by the National Board of Revenue (NBR) in this respect shall strictly be followed. This condition shall specifically be incorporated in the Tender Documents.

13. The Contractor(s) is (are) also required to return to the Department any quantities of material that may remain unused from the supply given by the Department or salvaged. In case of default, instructions of this paragraph shall also apply. These provisions shall specifically be incorporated in the Tender Documents.

14. Otherwise, provisions are unless made in the Technical Specifications; every item of this Schedule of Rates shall also comprise the activities like mobilization, de-mobilization and clearance of work site. Separate item should not be prepared for these activities unless any exception is allowed by the Authority. In the case of any exceptions, obtaining prior approval from the Chief Engineer, LGED shall be compulsory. These provisions shall specifically be incorporated in the Tender Documents.

15. While black-topping the road pavement, no item of seal coat shall be considered over any dense bituminous carpet.

16. The Contractor(s) at his(their) own costs shall perform all Laboratory Tests required for the construction works in the LGED laboratories unless any different arrangements are incorporated in the Tender Document on being assented by the Chief Engineer, LGED on any special circumstances. The testing facilities, not available with the LGED, may be performed from outside sources, if directed or allowed by the E-I-C. The E-I-C shall reserve the right to increase the frequency of testing on actual requirement. Fees for any tests performed in the LGED laboratories shall be realized at the prescribed rate(s) of the LGED from the immediate next bill of the concerned Contractor. Fees, so realized, shall immediately be credited to the respective heads of account of the Government. Under no circumstance the money shall be kept in any intermediary Bank Account.

17. All unit rates contained in this Schedule of Rates are inclusive of all duties and taxes as required under the law of the Country and the Contractor(s) shall remain liable to pay them all. The Contractor(s) shall include all these levies in his(their) tender prices for all items of works and no additional claim for payment of taxes and duties or any compensation to subsequent increase in the existing taxes, duties, etc. shall be entertained by the Authority unless approved by the Government otherwise. The Income Tax and VAT shall be deducted at source strictly in accordance with the Rules of the NBR and shall be credited immediately to the respective heads of account of the Government.

    In all circumstances, taxes shall be deducted on the gross amount of the Contractor's claims. In the case of re-used/re-cycled materials or materials used under departmental supply, these taxes shall also be levied on the value of the materials re-used/re-cycled or used through departmental supply. These provisions shall specifically be incorporated in the Tender Documents.

18. In case of detection of any errors or omission in the specifications during or prior to implementation of work, it should immediately be brought to the notice of the Authority for necessary correction or amendment. Under no circumstance, one shall be allowed to take advantage of such situations. The Chief Engineer, LGED, would be the sole Authority to decide any disputes arising from such errors or omissions. His decision(s) shall be conclusive and final, which will be binding upon all parties concerned.

19. The Community-Service Organizations such as PIC, WMCA shall work on no-profit basis under the in-house and force-account working systems and procedures. For this reason, any works to be implemented by them shall be subject to a cost estimate reduced by a margin of 10%, which constitutes as profit. The percentage should vary exactly in the same ratio of any variation as and when takes place in the Analysis of Rates. Amount

accrued as VAT and IT will be realized from the work payment bills and the same will be credited immediately to the respective heads of account of the Government. Instructions, information and procedures stated under paragraphs 12, 17 and other relevant paragraphs shall also apply in this regard.

20. Unit rates of this Book shall also apply for works to be carried out by the LCS under any Contracts, in a similar way as followed in the case of normal Contract. The LCS shall have to pay VAT & IT also at the same rates as are required in the case of normal Contract of LGED satisfying the prevailing rules of the NBR. LGED Guidelines, categorically prepared and circulated on this subject, should however govern the entire procedures.

21. The Executive Engineer of the District is the key-person of LGED for overall management and supervision of works supported by the Upazila Engineers (UE), Upazila Assistant Engineers (UAE) and the Sub-Assistant Engineers (SAE). It is their responsibilities to ensure that the items of this Schedule of Rates are strictly implemented in the work(s) with all stipulations, specifications and details. Standard field/ laboratory tests are to be performed with random sampling of brick, cement, sand, M.S. bar and other construction materials. Random cylinder/cube tests for Cement Concrete shall be carried out at the specified frequency for all concrete structural elements in order to protect their requisite strength.

22. Road Design Standards that has been developed and circulated by the Government/LGED should be followed.

23. When under some specific circumstance use of non-scheduled item(s) would be a necessity, approval of the Chief Engineer, LGED must be obtained prior to making such provisions in the cost estimate. The unit rate(s) of the requisite material(s)/item(s) shall have to be determined on the basis of the Prevailing market price(s) and the approval of the Chief Engineer, LGED shall be a mandatory requirement before its (their) any use.

24. Cost Estimating of Lump-Sum (LS) Items shall have to be determined on the basis of the prevailing market price(s) and mark-ups.

25. A general provision of physical contingencies (quantity overruns) or for meeting other essential expenditures like utility relocation, physical services etc. beyond the coverage of BOQ items may be made by including a provisional sum in the Summary Bill of Quantities. Similarly, a contingency allowance for possible price increases/ adjustments should be provided as a provisional sum in the Summary Bill of Quantities. The inclusion of such provisional sums often facilitates budgetary approval by avoiding the need to request periodic supplementary approvals as the future needs arise. Each item shall be mentioned in the Bill of Quantities with indicative cost as lump sum. [The amount shall only be used, in whole or in part, in accordance with the procuring entity's instructions]

26. In case of any of the foregoing instructions and stipulations of this general information & instructions comes into any conflict with any of the Codal Rules, the Codal Rules shall prevail.

Javed Karim
Additional Chief Engineer
(Road & Bridge Maintenance)

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Schedule of Rates

Schedule of Rates, LGED, August 2025

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 1 : General, Site Facilities and Safety						
1.01	Erection and maintenance of semi permanent site office and removal of the same after completion of work in accordance with the conditions of contract. In addition to the office required for own use, the contractor shall provide and maintain furnished site office for the use of Engineer-in-charge and his staff. The site office must have tiles floor, adequate foundation, brick walls, false ceiling of gypsum board and all windows are to be glazed, shuttered and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer-in-charge. The site office shall be maintained in a secure condition by the contractor until the completion of the contract and shall be provided with electricity, water supply, wash rooms and sewerage facilities. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the site office, including foundations, access roads, shades, layout of electrical and water supply and hard standings there for the approval of Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit detailed proposed furniture, fittings and other items of equipment and plant to the Engineer-in-charge for approval. These items shall be of the standard quality suitable for site. T he office, complete with furnishings, fittings, access roads and hard standings shall be ready for occupation by the Engineer-in-charge within 28 days of the date when the contractor first occupies the site. The contractor shall provide day and night guards and an attendant for the field office. At the end of the contract all materials, equipment and plant, furniture, fittings recovered from dismantling the office and removing access road will be the property of the contractor. No interim payment shall be certified unless engineer's office with required facilities are constructed and accepted by the Engineer-in-charge. (This is a time related item; proportionate payment for this item shall be made distributing in each bill on the basis of percentage progress of the whole works under contract)	job				
1.01.01	Engineer's site office of minimum 10 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries etc.[PWD 01.1.1]	job	51,705.44	51,705.44	51,705.44	51,705.44
1.01.02	Engineer's site office of minimum 15 sqm plinth area with providing necessary facilities including office furniture, consumables, stationeries, water purifier etc.[PWD 01.1.2]	job	82,602.50	82,602.50	82,602.50	82,602.50
1.01.03	Engineer's site office of minimum 38 sqm plinth area with providing necessary facilities including office furniture, 24000 BTU air cooler, umbrella, crookeries, water purifier, PC with monitor, uninterruptible power supply (UPS), laserjet printer (minimum 20 ppm), LED flood light fittings(Halogen) for sight security etc. [PWD 01.1.3]	job	500,661.39	500,661.39	500,661.39	500,661.39

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
1.02	Project Profile Signboard: Providing and fixing of typical project profile signboard as per direction of E-I-C, to be placed at a suitable place of the site including submission of proposals for the materials & size of the signboards (recommended size: 1800mm x 1200 mm with 2 nos. 75mm dia. MS post, outer & inner frames of board shall be 50mm x 50mm x 5mm & 25mm x 25mm x 5 mm respectively) and text layout to the engineer for approval which will be positioned as directed by the engineer and removing the same on completeion of the works or as instructed by the E-I-C. Sheeting will be made of encapsulated lens with retro-reflective type and messages/ borders will be screen printed. The text shall mention among others the name of the project, name of the implementing agency, cost of the project, completion time, name of the contractor etc.	sqm	17,341.55	17,293.32	17,220.96	17,220.96
1.03	Supplying and providing of first aid box with necessary materials/medicine (hygienic gown, thermometer, adhesive dressings, antiseptic solutions, bandages, cotton balls or swaps, emergency blanket, gloves, hand sanitizer, ice pack, saline etc). All complete as per direction of Engineer-in -charge. [PWD 01.1.4.3]	each	16,665.42	16,665.42	16,665.42	16,665.42
1.04	Hiring, installation, testing & commissioning of CCTV/Surveillance facilities for monitoring construction site including supply, fixing of 5.0 megapixel IR fixed bullet network IP camera including lens, bracket, housing with outdoor night vision facilities, full HD 1080 pixel, real time video, network video recorder (NVR) , 2 TB HDD for NVR , 4/8/16/32 port PoE switch, 32"/42" Full HD CCTV monitor, cable & accessories, internet connection with operation & maintenance cost throughout contract completion period, re-fitting & re-fixing with progress of construction all complete as per direction of Engineer in charge. [PWD 01.1.5]	job	50,444.36	50,444.36	50,444.36	50,444.36
1.05	Mobilization and cleaning site before commencing actual physical work and during contract period and demobilization after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with a particular attention on safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge and be proportionate to the percentage progress of work under contract as a whole in all respects and approved by the Engineer-in-charge. [PWD 01.7]	sqm	224.06	219.94	203.50	203.50
1.06	Providing expertised architect having minimum qualification Bachelor of Architecture and relevant experience(s) more than 5 years with registration in respective professional body for detail documentation of architectural themes, drawings, working out shop drawings, communication with theme architect & getting approval, specifying architectural needs according to approved master architectural themes & plan, certifying as built drawing for the approval etc. and any relevant jobs assigned by the HOPE or his official at site (max man month not greater than 1/4 of initial contract duration or contract completion time whichever is less & payment for the item subject to submission of CV & approved by HOPE or his authorized officer). [PWD 01.8]	per month	82,222.22	82,222.22	82,222.22	82,222.22
1.07	Providing expertised engineer having minimum qualification B.Sc. in Civil Engineering and relevant experience(s) more than 10 years with registration in respective professional body for project documentation, progress study & adjustment, preparation of project material schedule and testing schdule for approval etc. & jobs assigned by the HOPE or his official, at site (max man month not greater than 1/4 of initial contract duration or contract completion time whichever is less & payment for the item subject to submission of CV & approved by HOPE or his authorized officer). [PWD 01.9]	per month	123,333.33	123,333.33	123,333.33	123,333.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
1.08	Bench Mark Pillar: Manufacturing, supplying & fixing in position RCC (1:2:4) Bench Mark Pillars of size 150mm x 150mm x 750mm, with 400mm x 400mm x 100mm base having 3 nos. 10mm dia MS bar each way at base, 4 nos. 10mm dia vertical bar and 8 nos. 6mm dia tie, including cost of form works, concreting, reinforcement, plastering at top, inscribing on exposed surface, finishing surface, curing, earth cutting, embedding 450mm below GL., backfilling, ramming etc. complete as per direction of E-I-C.	each	1,399.01	1,393.53	1,358.50	1,358.50
1.09	Providing 3 sets as-built drawings subject to Engineer's approval produced in AutoCAD software in 584.5 mm x 413.5 mm (A-2 size) standard drawing paper, and operating and maintenance manual of the equipment and plant incorporated in the works, if any, in original by the date stated in the particular conditions of contract (PCC). If the contractor does not supply the as-built drawings and operating & maintenance manuals by the date stated in the particular conditions of contract (PCC), or they do not receive the Engineer-in-charge's approval, the Engineer-in-charge shall withhold the amount stated in the PCC from the payments due to the contractor. The as-built drawings must show the permanent works as actually constructed and reflect the revision of drawings supplied to the contractor during the Contract as well as revisions of drawings supplied to the contractor during the contract. (One set of as-built drawings shall be considered for measurement and payment) [PWD 01.2.1]	per tender	29,040.89	29,040.89	29,040.89	29,040.89
1.10	Videography: Providing and carrying out video shoting of roads, bridges, buildings, other programmes by professional videographer including hiring of vehicle, equipment for video shooting, titling, lightening, mixing, lettering, editing including cost of two DVDs of approved makes and quality etc. all complete as per direction of E-I-C. The edition of the video film and the script for narration shall be as approved by the engineer.	day				
1.10.01	Within 50 kilometer from district head quarter for full day	day	1,740.33	1,740.33	1,740.33	1,740.33
1.10.02	Beyond 50 kilometer from district head quarter for full day	day	1,891.67	1,891.67	1,891.67	1,891.67
1.10.03	Work upto 5 hours per day only	day	1,131.22	1,131.22	1,131.22	1,131.22
1.11	Photography: Shooting of still photographs by professinal photographer at outdoor and indoor of construction and other works of building, bridges, roads etc. for recording the progress of works at any distances including hiring of vehicle, equipment for photo shooting, lightening, mixing, lettering, editing including cost of digitized media & min. 10 nos.4R images printed on photo paper etc. all complete as per direction of E-I-C.	hour	454.00	454.00	454.00	454.00
1.12	Dust suppression measures	km	2,648.33	2,648.33	2,648.33	2,648.33
1.13	Temporary Toilet: Construction of temporary toilets in work site/ rest area complete as per design and specifications and approved by the Engineer-in-Charge. There should be 1 camp in each site. In each camp, there should be 1 no of toilet for women and 1 no of toilet for men	each	13,241.67	13,241.67	13,241.67	13,241.67

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
1.14	Traffic Management: Maintaining traffic management at worksite from time of commencement of contractor's activities to time of completion activities, including ensuring that the road is safe for users, providing a safe working area for those involved in work on trafficked network and minimizing any disruption to smooth flow of traffic (this includes providing necessary barricades, warning signs/lights, guide signs, flagmen, maintaining diversion roads by cutting, filling, constructing, etc. or by any other means) in accordance with the full satisfaction of the Engineering-in-charge, unless specified otherwise, including keeping provision for existing traffic and pedestrian movements in such a way as to assure that a single lane at least 3.0m wide is available for public traffic at all times (including access to properties and local roads) affected by the contractor's activities shall be maintained at all times (day & night), including removal of all temporary constructions on completion of the activities, etc. all complete as per requirement and instruction of Engineer-in-charge. All relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	LS				
1.15	Supplying of Best Quality Safety hand gloves for construction work of Flexible/durable/excellent puncture resistance working gloves with PVC palm and T/C drill back, pasted cuff ,palm liner . all complete in all respect as per approved specification and direction of the Engineer-in-charge.	each	315.28	315.28	315.28	315.28
1.16	Supplying, fitting and fixing 18mm thick marble Name plate including cost of materials, labour, form work, engraving neatly the approved Sample given by the engineer etc. complete as per drawings and direction of the Engineer-in-charge.	sqm	8,736.27	8,729.97	8,551.52	8,551.52

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 2 : Earth Works in Road Embankment						
2.01.1	C&G (Clearing and Grubbing): The work consists of cutting, removing and disposing of all materials such as trees, bushes, shrubs, stumps, roots, grass, weeds, rubbish, and removal of topsoil and other organic material etc. all complete as per direction of Engineer in Charge.	sqm	41.16	41.16	41.12	41.12
2.02.1	EFW: Earth work in road embankment up to a lift of 1.5 m in all kinds of soil including cutting and throwing earth in layers not exceeding 150 mm in thickness, breaking clods up to 40 mm size in each layer, ramming, leveling and dressing as per required side slope and alignment with earth borrowed from the road side govt. acquired land for any leads and maintaining the embankment true to level and side slopes as per profiles for one year from the date of completion including making dug, bailing, profiling etc. complete and accepted by the Engineer-in-charge. [PWD 24.1]	cum				
2.02.1.1	For initial lift of 1.5 m	cum	206.58	202.47	188.08	188.08
2.02.1.2	For additional lift of 1 m beyond 1.5 m up to 2.5	cum	235.36	231.25	214.81	214.81
2.02.1.3	For additional lift of 1 m beyond 2.5 m up to 3.5 m	cum	265.17	260.03	240.50	240.50
2.02.1.4	For additional lift of 1 m beyond 3.5 m up to 4.5 m	cum	293.94	288.81	268.25	268.25
2.02.1.5	For additional lift of 1 m beyond 4.5 m up to 5.5 m	cum	323.75	317.58	293.94	293.94
2.02.1.6	For additional lift of 1 m beyond 5.5 m up to 6.5 m	cum	353.56	347.39	321.69	321.69
2.02.2	EFW(AE): Earth filling work with specified soil in any type of embankment, where earth shall be arranged by the contractor's own cost including royalty, cutting, carrying, filling and compacting to 85%/95%/98% of Maximum Dry Density (MDD) at Optimum Moisture Content (OMC), with reference to laboratory density test AASHTO standard hammer by throwing earth in layers not more than 150mm in each layer in proper alignment, grade, camber and side slope in all types of soil except rocky, gravelly and slushy including benching not more than 300mm in vertical and 600mm in horizontal steps along the sides while widening any embankment with clod breaking to maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm and other foreign particles stripping/ ploughing the base of embankment and borrow pit area, dug bailing, clearing jungles, bail out of water, rough dressing including 150mm cambering at the centre of crest with all leads and lifts complete (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. Payment will be made on compacted volume.					
2.02.2.01	85% Compaction	cum	286.35	281.93	264.03	264.03
2.02.2.02	95% Compaction	cum	415.46	411.42	395.03	395.03
2.02.2.03	98% Compaction	cum	462.58	458.54	442.15	442.15

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
2.02.3	EFW(CE): Earth filling work with specified soil in any type of embankment, where earth shall be carried by truck/boat or any other means, supplied at contractor's own cost including royalty, cutting, carrying, filling and compacting to 85%/95%/98% of Maximum Dry Density (MDD) at Optimum Moisture Content (OMC), with reference to laboratory density test AASHTO standard hammer by throwing earth in layers not more than150mm in proper alignment, grade, camber and side slope in all types of soil except rocky, gravelly and slushy including benching not more than 300mm in vertical and 600mm in horizontal steps along the sides while widening any embankment, with clod breaking to maximum size of 100mm, benching the side slopes, removing roots and stumps of trees of girth upto 200mm and other foreign particles, stripping/ ploughing the base of embankment and borrow pit area, dug bailing, clearing jungles, bail out of water, rough dressing including 150mm cambering at the centre of crest with all leads and lifts complete (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. Payment will be made on compacted volume. The item is applicable when earth is supplied and arranged by the contractor from a distance beyond 200m from the end of right of way.	cum				
2.02.3.01	Outside municipal area, 85% Compaction	cum	336.79	332.38	314.47	314.47
2.02.3.02	Outside municipal area, 95% Compaction	cum	465.90	461.87	445.47	445.47
2.02.3.03	Outside municipal area, 98% Compaction	cum	506.15	502.11	485.72	485.72
2.02.3.04	Within municipal area, 85% Compaction	cum	406.98	402.56	379.67	379.67
2.02.3.05	Within municipal area, 95% Compaction	cum	539.85	535.81	514.17	514.17
2.02.3.06	Within municipal area, 98% Compaction	cum	584.48	580.44	558.48	558.48
2.02.4	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil (sandy clay/silty clay/silt but excluding organic material), collected from silt-up river/canal bed by dredging with appropriate local dredger, including carrying through pipe or any other suitable means, loading, unloading and filling gradually at the right place of filling area in an artificial silt up manner at a suitable height and distance, including leveling, dressing and all necessary arrangements to fill-up soil and compacting to 95% of Maximum Dry Density (MDD) at Optimum Moisture Content (OMC) with reference to laboratory density test AASHTO modified hammer with suitable equipment dressing etc. complete in all respect as per direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, their carriages, hire charges of dredger and all other machines, equipment for filling soil as per specification, fuels, lubricants, wages of operational staff and all incidental charges in this connection, etc. Location of river bed from where earth will be collected and quality of borrow soil must have prior approval from the Engineer-in-charge. In no circumstances, earth shall be borrowed from agricultural/homestead land. The borrow earth have to be collected from river bed by avoiding any detrimental impact on the river channel. Payment will be made on compacted volume.	cum				
2.02.4.01	Initial distance within 300m	cum	321.14	320.85	320.07	320.07
2.02.4.02	Distance 300m to 600m	cum	348.89	348.60	347.81	347.81
2.02.4.03	Distance 600m to 1.0km	cum	398.83	398.54	397.75	397.75
2.02.4.04	Distance 1.0km to 2.0km	cum	454.32	454.03	453.24	453.24
2.02.4.05	Distance 2.0km to 3.0km	cum	509.80	509.51	508.73	508.73
2.02.4.06	Distance 3.0km to 4.0km	cum	565.29	565.00	564.22	564.22
2.02.4.07	Distance 4.0km and above	cum	648.53	648.24	647.45	647.45

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
2.03.1	CB: Providing clay blanket/clay cover by carried earth supplied at contractor's own cost including royalty in different thickness over the side slopes or crest of the road embankment with selected soil (clay content minimum 80% and silt content 0-20%) including throwing clay in layers not exceeding 150 mm in thickness, clod breaking, benching the side slopes and compacting to 95% of maximum dry density at optimum moisture content with reference to laboratory density test AASHTO standard hammer with suitable equipment dressing etc. complete as per direction of Engineer-in-charge. Composition of specified soil must be confirmed by laboratory test before use. (compaction will be done by the contractor with approved equipment including all ancillary charges for compaction and testing) as per direction of Engineer in charge. Payment will be made on compacted volume.	cum	465.90	461.87	445.47	445.47
2.04.1	EWEx(Rd/C/P): Earthwork in excavation of roadway/canal/pond etc of any dimension in all kinds of soil including cutting up to required depth including bailing out water and throwing on the embankment, breaking clods, ramming and leveling, dressing in 225 mm layer with maintaining the side slopes and level of both pond and the embankment as per design and accepted by the Engineer-in-charge.[PWD 02.18]	cum				
2.04.1.1	For initial lead of 30 m and lift of 1.5 m	cum	266.19	262.08	242.56	242.56
2.04.1.2	For initial lead of 30 m and lift beyond 1.5 m and upto 1.8 m	cum	275.44	271.33	250.78	250.78
2.04.1.3	For initial lead of 30 m and lift beyond 1.8 m and upto 2.1 m	cum	284.69	280.58	259.00	259.00
2.04.1.4	For initial lead of 30 m and lift beyond 2.1 m and upto 2.4 m	cum	293.94	289.83	267.22	267.22
2.04.1.5	For initial lead of 30 m and lift beyond 2.4 m and upto 2.7 m	cum	303.19	299.08	275.44	275.44
2.04.1.6	For initial lead of 30 m and lift beyond 2.4 m and upto 2.7 m	cum	312.44	308.33	283.67	283.67
2.04.3	EWEx(Dr): Earth work in re-excavation of Beel, River & Beel connectivity (Canal) etc. by small dredging unit according to the lines, grades and elevation as shown in the drawing, fitting of cutter machine, delivery pipe fitting, soil management, filling chamber, village platform and disposing of all excavated materials at a safe distance designated by the E-I-C in all types of clay/slurry/organic soils except rocky, gravelly, slushy soil, levelling, dressing, etc. all complete for an initial soil dumping lead upto 100m including arranging for and supplying all necessary tools and equipment at work site etc. complete as per direction of the E-I-C.	cum	125.08	125.00	124.51	124.51
2.04.4	EWEx(M): Earth Excavation by Mechanical hydraulic Excavator (Long Boon) in roadway/canals/ponds, etc. with 0.90 cum bucket capacity, including cutting and loading in tippers or disposing of all excavated materials at a safe distance designated by the E-I-C, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, leveling, dressing, etc. all complete for an initial excavation depth of 3m and lead upto 20m. including cost of hire charges of Excavator and all other machines, equipment, fuels, lubricants and wages of operational staff etc. all complete as per the direction of the E-I-C	cum	108.82	108.76	108.30	108.30
2.05.1	Leveling and dressing the embankment crown, road flanks, etc. in maintenance work by earth cutting and filling as necessary with maintaining proper slope and camber including compaction etc. all complete as per direction of the E-I-C.	sqm	15.89	15.64	14.50	14.50

Item Code	Brief Description of Item	Unit	Rate			
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1	2	3	4	5	6	7
2.05.2	E/C(Mech): Compaction of earth in constructing of road embankment/road slopes/ canal bank/ compounds etc. as per design to profile in layers not exceeding 200mm thick, including clod breaking to a maximum size of 75mm, leveling, dressing, watering to bring moisture content ± 2% of OMC & compacting soil by vibratory soil compactor or by appropriate mechanical means to attain 95% of Maximum Dry Density (MDD) at Optimum Moisture Content (OMC) with reference to laboratory density test AASHTO-180 etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge. [This item will be applicable where compaction events are not included in the items like compaction on box cutting soil]	cum	142.90	142.58	141.32	141.32
2.05.3	ESC(Mech): Scarifying and loosening of existing earthen shoulder up to the minimum depth of 100mm, including removing all detrimental material, breaking clods, levelling, dressing, maintaining proper grade & cross-fall (minimum+5%), watering to OMC ± 2% & compacting by vibratory soil compactor or by appropriate mechanical means to attain minimum 95% of Maximum Dry Density (MDD) at Optimum Moisture Content (OMC) with reference to laboratory density test AASHTO-180 etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge.	sqm	47.13	46.87	45.86	45.86
2.06.1	Creating turf on the side slopes and top of embankment with good quality turf not less than 225 mm square chunk, watering till the grass grown including all leads and lifts etc. complete and accepted by the Engineer-in-charge.	sqm	31.65	31.25	29.95	29.95
2.06.2	Supplying and planting vetiver (Binna) grass/lawn grass in a bunch of 2 to 3 stem @of 225mm c/c all over the side slope starting from 225mm beyond the edge of the shoulder and watering till the grasses are fully grown etc. all complete as per direction of E-I-C. The stem should be 125mm to 150mm long with roots. (The payment is to be made only when grasses are fully grown)	sqm	60.22	59.40	56.12	56.12

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 3 : Road Works						
Section-01: Box Cutting						
3.01.1	BP: Preparation of bed by cutting and filling including watering to bring moisture content ± 2% of OMC & compacting by appropriate mechanical means etc. to obtain design CBR at minimum compaction 98% of Maximum Dry Density (MDD) etc. all complete as per direction of the E-I-C	sqm	16.58	16.48	15.76	15.76
3.01.2	BC(150mm): Earth work in box cutting on road crest up to 150mm depth, maintaining proper grade, camber and alignment, super elevation on curves, removing soil to a safe distance or spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing,watering and compacting the sub-grade soil by manual means etc. all complete as per direction of the E-I-C.	sqm	34.68	34.05	31.53	31.53
3.01.3.1	BC(300mm): Earthwork in box cutting on road crest up to 300mm depth in all types of soil. Removing soil to a safe distance, maintaining proper alignment, camber and grade including leveling, dressing and compacting the sub grade as per drawing and accepted by the Engineer-in-charge.	sqm	67.66	66.64	61.73	61.73
3.01.3.2	BC&SGC(300mm): Earth work in box cutting on road crest up to 300mm depth, maintaining proper grade, camber and alignment, super elevation on curves, removing soils to a safe distance or if necessary, spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing, watering to bring moisture content ± 2% of OMC & compacting the sub-grade by appropriate mechanical means to attain design CBR at specified degree of compaction etc. all complete as per direction of the E-I-C.	sqm				
3.01.3.2.01	Degree of Compaction: Minimum 98% of MDD (Standard Proctor)	sqm	79.32	78.18	73.01	73.01
3.01.3.2.02	Degree of Compaction: Minimum 95% of MDD (Modified Proctor)	sqm	91.42	90.28	85.11	85.11
3.01.3.3	BC&SGP(300mm): Earth work in box cutting up to 300mm depth & Preparation of sub-grade by excavating road crest another 300mm depth, removing soils to a safe distance or spreading the excavated earth on road flanks, slopes. In preparing 300mm sub-grade below the box, excavating top 150mm layer and excavated earth set aside to reuse, then scarifying the bottom 150 mm layer, breaking clods to 40mm maximum in size, leveling, dressing, watering to OMC ± 2% & compacting the 1st layer by appropriate mechanical means to attain design CBR at specified degree of compaction, subsequently prepare 2nd layer by spreading aside materials on top of prepared 1st layer, removing all deleterious material breaking clods, leveling, dressing, watering to OMC ± 2% and compacting the layer following the same procedure as 1st layer to attain design CBR including maintaining proper grade, camber and alignment, super elevation on curves etc. all complete as per direction of the E-I-C. (When in-situ sub grade materials is suitable but very loose)	sqm				
3.01.3.3.01	Degree of Compaction: Minimum 98% of MDD (Standard Proctor)	sqm	152.64	150.37	140.34	140.34
3.01.3.3.02	Degree of Compaction: Minimum 95% of MDD (Modified Proctor)	sqm	174.44	172.17	162.15	162.15

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.01.3.4	BC&SGP: Earth work in box cutting up to requried depth & Preparation of sub-grade by excavating road crest another 300mm depth, removing soils to a safe distance or spreading the excavated earth on road flanks, slopes. In preparing 300mm sub-grade below the box, excavating top 150mm layer and excavated earth set aside to reuse, then scarifying the bottom 150 mm layer, breaking clods to 40mm maximum in size, leveling, dressing, watering to OMC ± 2% & compacting the 1st layer by appropriate mechanical means to attain design CBR at specified degree of compaction, subsequently prepare 2nd layer by spreading aside materials on top of prepared 1st layer, removing all deleterious material breaking clods, leveling, dressing, watering to OMC ± 2% and compacting the layer following the same procedure as 1st layer to attain design CBR including maintaining proper grade, camber and alignment, super elevation on curves etc. all complete as per direction of the E-I-C. (When in-situ sub grade materials is suitable but very loose)					
3.01.3.4.01	Degree of Compaction: Minimum 98% of MDD (Standard Proctor)	cum	508.16	500.59	467.17	467.17
3.01.3.4.02	Degree of Compaction: Minimum 95% of MDD (Modified Proctor)	cum	563.23	555.66	522.24	522.24
3.01.4.2	BC&SGC(450mm): Earth work in box cutting on road crest up to 450mm depth, maintaining proper grade, camber and alignment, super elevation on curves, removing soils to a safe distance or if necessary, spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing, watering to bring moisture content ± 2% of OMC & compacting the sub-grade by appropriate mechanical means to attain design CBR at specified degree of compaction etc. all complete as per direction of the E-I-C.	sqm				
3.01.4.2.01	Degree of Compaction: Minimum 98% of MDD (Standard Proctor)	sqm	109.84	108.15	100.76	100.76
3.01.4.2.02	Degree of Compaction: Minimum 95% of MDD (Modified Proctor)	sqm	121.94	120.25	112.86	112.86
3.01.4.3	BC&SGP(450mm): Earth work in box cutting up to 450mm depth & Preparation of sub-grade by excavating road crest another 300mm depth, removing soils to a safe distance or spreading the excavated earth on road flanks, slopes. In preparing 300mm sub-grade below the box, excavating top 150mm layer and excavated earth set aside to reuse, then scarifying the bottom 150 mm layer, breaking clods to 40mm maximum in size, leveling, dressing, watering to OMC ± 2% & compacting the 1st layer by appropriate mechanical means to attain design CBR at specified degree of compaction, subsequently prepare 2nd layer by spreading aside materials on top of prepared 1st layer, removing all deleterious material breaking clods, leveling, dressing, watering to OMC ± 2% and compacting the layer following the same procedure as 1st layer to attain design CBR including maintaining proper grade, camber and alignment, super elevation on curves etc. all complete as per direction of the E-I-C. (When in-situ sub grade materials is suitable but very loose)	sqm				
3.01.4.3.01	Degree of Compaction: Minimum 98% of MDD (Standard Proctor)	sqm	184.79	182.02	169.66	169.66
3.01.4.3.02	Degree of Compaction: Minimum 95% of MDD (Modified Proctor)	sqm	206.60	203.83	191.47	191.47
Section-02: Improved Sub-Grade						
3.02.1.1	Sand (FM 0.50) filling on the road bed in the improved sub-grade with sand (minimum FM 0.5) free from dust, earth, other vegetable growth, foreign materials etc. including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of Maximum Dry Density (MDD) (Modified Proctor), etc. all complete as per direction of the E-I-C.	cum	971.19	978.63	964.89	964.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.02.1.2	Sand (FM 0.80) filling on the road bed in the improved sub-grade with sand (minimum FM 0.8) free from dust, earth, other vegetable growth, foreign materials etc. including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Design Soaked CBR but not less than 8% at minimum compaction 98% of Maximum Dry Density (MDD) (Modified Proctor), etc. all complete as per direction of the E-I-C.	cum	1,043.71	1,046.80	1,006.95	1,006.95
3.02.1.3	Filling the road bed in the improved sub-grade with locally available sand (passing <=15% through #200 sieve) free from dust, earth clod, other vegetable growth, foreign materials etc. including supplying all materials, spreading, watering, compacting by appropriate mechanical means to obtain a minimum Soaked CBR 8% or Design CBR at minimum compaction 98% of Maximum Dry Density (MDD) (Modified Proctor), etc. all complete as per direction of the E-I-C.	cum	858.07	793.00	772.00	834.36
3.02.1.4	SB for Uni-Paver: Providing compacted Sand Bedding over the finished base course, including supplying well graded sand of minimum FM=2.5, free from dust, earth, other vegetation, foreign materials, etc., including spreading sand uniformly of specified loose thickness on finished road surface maintaining grade, camber and super elevation, local handling, booming, watering, to bring moisture content ± 3% of OMC & compacting by appropriate mechanical means to obtain a minimum design compaction, etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge.	cum	2,965.57	2,871.49	2,902.70	2,872.24
3.02.2	PilSG: Labour charge for taking out the existing sand from road bed of any thickness and removing the debris including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	cum	104.04	102.15	94.58	94.58
3.02.3	CISG: Labour for spreading & compaction of Improved Subgrade consisting of sand having compacted thickness as per specifications including local handling, hand packing, watering, rolling in layers of specified loose thickness with 8~10 tonne road roller to achieve Design Soaked CBR but not less than 8% at a degree of compaction to minimum 98% Maximum Dry Density (MDD) (Modified Proctor) etc all complete as per direction of the Engineering-in-charge. Thickness of each layer should not be more than 125mm loose and Payment will be made on compacted thickness. (The rate excludes the cost of sand)	cum	188.04	186.78	181.74	181.74
Section-03: Sub-Base Course						
3.03.1	Dis(SB/BC): Dismantling of damaged sub-base and Base course works in flexible paved road of any thickness by appropriate mechanical means and removing the debris to a safe distance, stacking properly including all tools and plants, etc. all complete as per direction of the E-I-C.	cum	199.94	198.04	190.48	190.48
3.03.2	S&C(SB): Labour for mixing, spreading & compacting of Sub-base consisting of sand and crusher run aggregate made of well burnt picked 1st class bricks or stone having compacted thickness as per specifications including local handling, hand packing, watering, dry rolling followed by wet rolling in layers of specified loose thickness with 8~10 tonne road roller to achieve Design soaked CBR but not less than 30% at a degree of compaction to minimum 98% (Modified Proctor) etc. all complete as per direction of the Engineering-in-charge. Thickness of each layer should not be more than 100mm loose and Payment will be made on compacted thickness. (The rate excludes the cost of sand, brick/stone aggregates)	cum	466.46	460.78	443.76	443.76

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.03.3.1	SBBC(FM-0.5): Providing compacted aggregate sand sub-base course with 38mm down Crusher run 1st class bricks/picked chips of LAA value not exceeding 40 & sand of minimum FM 0.50 mixed in proportion 1:1 by volume placed in layer(s), mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	4,479.59	4,471.34	4,301.91	4,301.91
3.03.3.2	SBBC(FM<0.5): Providing compacted aggregate sand sub-base course with 38mm down Crusher run 1st class bricks/picked chips of LAA value not exceeding 40 & locally available sand (Passing <=15% through #200 sieve) mixed in proportion 1:1 by volume placed in layer(s) to give a maximum compacted thickness of 100mm in a single appropriate layer, mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	4,414.17	4,364.00	4,190.37	4,226.43
3.03.3.3	SBSL(FM-0.5): Providing compacted aggregate sand sub-base course with 38mm down local Crushed stone (Louva) chips mixed with Bholaganj crushed stone chips, as necessary, having LAA value not exceeding 40 & sand of minimum FM 0.50 mixed in proportion 1:1 by volume placed in layer(s), mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	4,189.42	4,230.49	3,763.50	4,095.60
3.03.3.4	SBBC(FM-0.8): Providing compacted aggregate sand sub-base course with 38mm down Crusher run 1st class bricks/picked chips of LAA value not exceeding 40 & sand of minimum FM 0.80 mixed in proportion 1:1 by volume placed in layer(s), mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 35% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	4,521.52	4,510.76	4,326.23	4,326.23
3.03.4.1	SBBC(70:30): Providing compacted aggregate sand sub-base course with 38mm down brick chips made of 1st class /picked brick (LAA value not exceeding 40) mixed thoroughly with sand of requisite FM (FM not less than 0.8) to obtain a homogeneous mix complying with the specified grading requirement of the relevant item of Road Design standards, (Suggested mixing ratio Brick Chips 38mm downgraded 25% and 20mm downgraded 45% with 30% sand) including mixing, carrying, placing and spreading uniformly in appropriate layer to give specified compacted thickness not more than 100mm in a single layer, watering, compacting by 8~10 tonne road roller at OMC±3% to obtain each layer's minimum soaked CBR 50% or Design CBR at minimum compaction 98% of MDD (Modified Proctor), including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per direction of the E-I-C.	cum	5,927.36	5,910.52	5,663.56	5,663.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.03.4.2	SBSC(50:50): Providing compacted aggregate sand sub-base course with 38mm down chips made of Crushed Stone (LAA value not exceeding 35) mixed thoroughly with sand of requisite FM (FM not less than 0.8) to obtain a homogeneous mix complying with the specified grading requirement of the relevant item of Road Design standards, (Suggested mixing ratio Crushed Stone 38mm downgraded 25% and 20mm downgraded 25% with 50% sand of total mix) including mixing, carrying, placing and spreading uniformly in appropriate layer to give specified compacted thickness not more than 100mm in a single layer, watering, compacting with 8~10 tonne road roller at OMC±3% to obtain each layer's minimum soaked CBR 50% or Design CBR at minimum compaction 98% of MDD (Modified Proctor), including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per direction of the E-I-C.	cum	7,717.03	7,858.71	6,881.59	7,124.98
3.03.5.1	SBbySM(FM-0.5): Providing compacted aggregate sand sub-base course with 38mm down crusher run 1st class bricks/picked chips from suitable salvage materials and supplying sand of minimum FM 0.50 mixed in proportion of 1:1 by volume placed in layer(s), mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C. (Excluding cost of 0.6650cum brick chips per cum work).	cum	1,099.03	1,093.98	1,060.57	1,060.57
3.03.5.2	SBbySM(FM-0.8): Providing compacted aggregate sand sub-base course with 38mm down crusher run 1st class bricks/picked chips from suitable salvage materials and supplying sand of minimum FM 0.80 mixed in proportion of 1:1 by volume placed in layer(s), mixing properly, watering, compacting with 8~10 tonne road roller to attain each layer's minimum soaked CBR 35% or Design CBR at minimum compaction 98% of MDD (Modified Proctor) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C. (Excluding cost of 0.6650cum brick chips per cum work).	cum	1,140.97	1,133.39	1,084.89	1,084.89
Section-04: End Edging						
3.04.1.1	PiEE(75mm): Labour charge for picking up the existing brick on end edging (75mm across) including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	m	9.71	9.53	8.83	8.83
3.04.1.2	PiEE(125mm): Labour charge for picking up the existing brick on end edging (125mm across) including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	m	18.73	18.39	17.03	17.03
3.04.2.1	ReEE(75mm): Labour charge for Resetting the brick on end edging (75mm across) with 1st class/picked bricks including cutting trenches true to level & maintaining grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand, etc. all complete as per direction of the E-I-C.	m	17.88	17.65	16.43	16.43
3.04.2.2	ReEE(125mm): Labour charge for Resetting the brick on end edging (125mm across) with 1st class/picked bricks including cutting trenches true to level & maintaining grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand, etc. all complete as per direction of the E-I-C.	m	29.83	29.45	27.49	27.49
3.04.3.1	EE (75mm): Brick on end edging (75 mm across the road) with first class or picked jhama bricks and filling the gaps with fine sand (F.M. 0.80) including cutting trenches, true to level and grade, removing earth, refilling and ramming the sides properly including cost of all materials and accepted by the Engineer-in-charge. [PWD 24.7.1]	m	171.59	170.98	164.36	164.36
3.04.3.2	EE(125mm): Brick on end edging (125mm across) with 1st class/picked bricks including cutting trenches true to level & maintaining grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand, etc. all complete as per direction of the E-I-C.	m	257.27	256.93	246.30	246.30

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-05: Base Course						
3.05.1	S&SBC: Supplying and spreading 1st class and picked brick chips (LAA value not exceeding 40) including cost of bricks carrying breaking into specified sizes including screening & spreading uniformly on the road surface maintaining grade, camber and super elevation, etc. all complete as per direction of the E-I-C.					
3.05.1.1	20mm downgraded	cum	5,448.00	5,430.34	5,214.69	5,214.69
3.05.1.2	40mm downgraded	cum	5,273.97	5,258.83	5,050.75	5,050.75
3.05.1.3	50mm downgraded	cum	5,116.33	5,103.72	4,902.57	4,902.57
3.05.1.4	63mm downgraded	cum	5,012.92	5,001.57	4,804.83	4,804.83
3.05.1.5	80mm downgraded	cum	4,925.90	4,915.81	4,722.86	4,722.86
3.05.2	B&SBC: Labour charge for breaking and spreading 1st class & picked brick chips including cost of bricks carrying, breaking into specified sizes including screening & spreading uniformly on the road surface maintaining grade, camber and super elevation, etc. all complete as per direction of the E-I-C.					
3.05.2.1	20mm downgraded	cum	567.50	548.58	520.21	520.21
3.05.2.2	40mm downgraded	cum	454.00	438.87	416.17	416.17
3.05.2.3	50mm downgraded	cum	378.33	365.72	346.81	346.81
3.05.2.4	63mm downgraded	cum	340.50	329.15	312.13	312.13
3.05.2.5	80mm downgraded	cum	302.67	292.58	277.44	277.44
3.05.3	S&SSC: Supplying and spreading stone chips of LAA value not exceeding 35% [Preferably stone chips from Madhyapara, Dinajpur], to be obtained from boulders including cost of boulders carrying breaking into specified sizes including screening & spreading uniformly on the road surface maintaining grade, camber and super elevation, etc. all complete as per direction of the E-I-C.					
3.05.3.1	20mm downgraded	cum	9,353.47	9,557.77	8,075.53	8,494.84
3.05.3.2	40mm downgraded	cum	9,202.14	9,411.48	7,936.80	8,356.12
3.05.3.3	50mm downgraded	cum	9,050.81	9,265.19	7,798.08	8,217.40
3.05.3.4	63mm downgraded	cum	8,861.64	9,082.33	7,624.68	8,044.00
3.05.3.5	80mm downgraded	cum	8,672.47	8,899.47	7,451.28	7,870.59
3.05.4.1	S&SBC(WG): Supplying and spreading 50mm downgraded crusher run 1st class and Picked brick chips of LAA value not exceeding 40% including supplying of required amount of 12mm downgraded chips made of same quality bricks to fill the voids including cost of materials, spreading uniformly in layers of specified loose thickness on road surface maintaining grade, camber and super elevation, etc. all complete as per direction of the E-I- C. Measurement will be made on loose volume.	cum	5,208.45	5,200.07	4,985.49	4,985.49
3.05.4.2	S&SSC(WG): Supplying and spreading 50mm downgraded crusher run stone chips of LAA value not exceeding 35% including supplying of required amount of 12mm downgraded chips made of same quality stone to fill the voids including cost of materials, spreading uniformly in layers of specified loose thickness on road surface maintaining grade, camber and super elevation, etc. all complete as per direction of the E-I-C. Measurement will be made on loose volume.	cum	8,971.54	9,220.24	8,265.32	8,502.41

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.05.5	B&SCS: Labour charge for breaking and spreading the concrete slab into pieces, salvaged from existing RCC/CC pavement, breaking into specified sizes including screening & stacking properly in measurable stacks (max stack height 0.5m) at site, etc. all complete including dismantling existing concrete pavement as per direction of the E-I-C.					
3.05.5.1	20mm downgraded	cum	2,080.83	2,011.47	1,907.43	1,907.43
3.05.5.2	40mm downgraded	cum	1,891.67	1,828.61	1,734.03	1,734.03
3.05.5.3	50mm downgraded	cum	1,513.33	1,462.89	1,387.22	1,387.22
3.05.5.4	63mm downgraded	cum	1,324.17	1,280.03	1,213.82	1,213.82
3.05.5.5	75mm downgraded	cum	1,135.00	1,097.17	1,040.42	1,040.42
3.05.6	CWBM(iSSM): Labour charge for compacted WBM base course with crusher run aggregate made of well burnt picked and 1st class bricks or stone having compacted thickness as per specifications including local handling, hand packing, watering, dry rolling followed by wet rolling in layers of specified loose thickness with 8~10 tonne road roller to attain each layer's minimum soaked CBR 80% or Design CBR at specified degree of compaction including supplying choking/screening material as filler material @0.012cum/sqm or as required etc. all complete as per direction of the Engineering-in-charge. After adequate dry rolling, spreading of choking/screening material on the surface, sprinkling of water and rolling is to be continued until all the voids are filled, wave of grout/slurry flushes ahead of the roller. Thickness of each layer should not be more than 100mm loose and Payment will be made on compacted thickness. The rate excludes the cost of brick aggregates.	cum				
3.05.6.01	Degree of compaction: minimum 98% of MDD (Modified Proctor)	cum	612.58	610.44	597.89	597.89
3.05.6.02	Degree of compaction: 100% of MDD (Modified Proctor)	cum	717.49	715.37	702.67	702.67
3.05.7.1	WBMBC: Providing compacted brick aggregate base course, including supplying, spreading and compacting 50mm downgraded crusher run 1st class and Picked brick chips (LAA value not exceeding 40%) including supplying of required amount of 12mm downgraded chips made of same quality bricks, including spreading uniformly in layers of specified loose thickness on road surface maintaining grade, camber and super elevation including local handling, hand packing, booming, watering, dry rolling followed by wet rolling in layers with 8~10 tonne road roller to attain each layer's minimum soaked CBR 80% or Design CBR at specified degree of compaction, including supplying choking/screening material as filler material @0.018cum/sqm or as required including cost of materials, labours etc. all complete as per direction of the E-I-C. After adequate dry rolling spreading of choking/screening material on the surface, sprinkling water and rolling is to be continued until all the voids are filled, wave of grout/slurry flushes ahead of the roller. Thickness of each layer should not be more than 100mm loose and measurement for Payment will be made on compacted thickness.	cum				
3.05.7.1.01	Degree of Compaction: Minimum 98% of MDD (Modified Proctor)	cum	7,160.47	7,144.61	6,863.12	6,863.12
3.05.7.1.02	Degree of Compaction: 100% of MDD (Modified Proctor)	cum	7,576.17	7,560.05	7,266.01	7,266.01

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.05.7.2	WMMBC: Providing compacted brick aggregate WMM base course, including supplying, spreading and compacting 38mm downgraded aggregates as specified in the relevant item of LGED road design standard or wet mix macadam specification (LAA value not exceeding 40%) made of 1st class and Picked bricks, combining brick chips of different sizes to provide requisite grading and premixing the material with water at OMC in mechanical mix plant at stack yard including carriage of mixed material by tipper with proper covering to site, laying in uniform layers of specified loose thickness not more than 100mm with Grader in base course on well prepared surface and compacting with 8~10 tonne Vibratory road roller to attain each layer's minimum soaked CBR 80% or Design CBR at specified degree of compaction including supplying all materials, carriage, labors, tools & equipment etc. all complete as per direction of the E-I-C	cum				
3.05.7.2.01	Degree of Compaction: Minimum 98% of MDD (Modified Proctor)	cum	7,675.97	7,659.98	7,377.31	7,377.31
3.05.7.2.02	Degree of Compaction: 100% of MDD (Modified Proctor)	cum	8,220.53	8,204.17	7,908.52	7,908.52
3.05.8.1	WBMSC: Providing compacted Stone Aggregate Base Course by supplying, spreading and compacting 50mm downgraded crusher run stone chips as specified in the relevant item of LGED road design standard (LAA value not exceeding 35%), including supplying of required amount of 12mm downgraded chips made of same quality stone and Sand of minimum FM=0.80, including spreading uniformly in layers of specified loose thickness on road surface maintaining grade, camber and super elevation including local handling, hand packing, booming, watering, dry rolling followed by wet rolling in layers with 8~10 tonne road roller to attain each layer's minimum soaked CBR 90% or Design CBR at specified degree of compaction, blinding with choking material as filler material @0.018cum/sqm or as required including cost of materials, labours etc. all complete as per direction of the E-I-C. After adequate dry rolling spreading choking material on the surface, sprinkling water and rolling is to be continued until all the voids are filled, wave of grout/slurry flushes ahead of the roller. Thickness of each layer should not be more than 100mm loose and measurement for Payment will be made on compacted thickness.	cum				
3.05.8.1.01	Degree of Compation: Minimum 98% of MDD (Modified Proctor)	cum	9,325.98	9,542.51	8,636.15	8,855.59
3.05.8.1.02	Degree of Compation: 100% of MDD (Modified Proctor)	cum	9,849.96	10,077.85	9,127.69	9,358.10
3.05.8.2	WMMSC: Providing compacted Stone aggregate base course by supplying, spreading and compacting 38mm downgraded stone chips as specified in the relevant item of LGED road design standard or wet mix macadam specification (LAA value not exceeding 35% made of Crushed stone combining aggregates of different sizes to provide required grading and premixing with water at OMC in mechanical mix plant at stack yard including carriage of mixed material by tipper with proper covering to site, laying in uniform layers of specified loose thickness not more than 100mm with Grader in base course on well prepared surface and compacting with 8~10 tonne vibratory road roller to attain each layer's minimum soaked CBR 90% or Design CBR at specified degree of compaction including supplying all materials, carriage, labors, tools & equipment etc. all complete as per direction of the E-I-C.	cum				
3.05.8.2.01	Degree of Compaction: Minimum 98% of MDD (Modified Proctor)	cum	10,271.25	10,427.25	9,317.28	9,592.58
3.05.8.2.02	Degree of Compaction:100% of MDD (Modified Proctor)	cum	10,945.56	11,109.80	9,945.49	10,234.55

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-06: Surfacing Works						
3.06.1.1	PCHD@1.2: Providing Prime coat @1.2 liter/sqm with cut back bitumen to be prepared by cutting back 60/70 penetration grade straight run bitumen (conforming to the requirements of ASTM/ AASHTO in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of the surface and will be decided by field trials, the correct quantity that is completely absorbed within 24 hours including carefully cleaning of the surface of the granular base material to be primed and spraying cut back bitumen at a temperature from 100°C to 120°C by appropriate hand device, etc. complete as per direction of the E-I-C. [Retail]	sqm	158.26	157.14	159.77	159.77
3.06.1.1.01	PCHD@1.2: Providing Prime coat @1.2 liter/sqm with cut back bitumen to be prepared by cutting back 60/70 penetration grade straight run bitumen (conforming to the requirements of ASTM/ AASHTO in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of the surface and will be decided by field trials, the correct quantity that is completely absorbed within 24 hours including carefully cleaning of the surface of the granular base material to be primed and spraying cut back bitumen at a temperature from 100°C to 120°C by appropriate hand device, etc. complete as per direction of the E-I-C. [Bulk]	sqm	155.24	153.11	156.74	156.74
3.06.1.2	PCMD@1.2: Providing Prime coat @1.2 liter/sqm with cut back bitumen to be prepared by cutting back 60/70 penetration grade straight run bitumen (conforming to the requirements of ASTM/ AASHTO in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of the surface and will be decided by field trials, the correct quantity that is completely absorbed within 24 hours including carefully cleaning of the surface of the granular base material to be primed and spraying cut back bitumen at a temperature from 100°C to 120°C by mechanical distributor, etc. complete as per direction of the E-I-C.[Retail]	sqm	159.94	158.84	161.51	161.51
3.06.1.2.01	PCMD@1.2: Providing Prime coat @1.2 liter/sqm with cut back bitumen to be prepared by cutting back 60/70 penetration grade straight run bitumen (conforming to the requirements of ASTM/ AASHTO in the ratio of 100 parts by volume of bitumen to 40-60 parts by volume of kerosene depending on the porosity of the surface and will be decided by field trials, the correct quantity that is completely absorbed within 24 hours including carefully cleaning of the surface of the granular base material to be primed and spraying cut back bitumen at a temperature from 100°C to 120°C by mechanical distributor, etc. complete as per direction of the E-I-C.[Bulk]	sqm	156.92	154.80	158.49	158.49
3.06.2.1	TCHD@0.5: Providing tack coat @0.50kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by appropriate hand device at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Retail]	sqm	66.69	65.94	67.44	67.44
3.06.2.1.01	TCHD@0.5: Providing tack coat @0.50kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by appropriate hand device at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Bulk]	sqm	64.80	63.42	65.55	65.55

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.2.2	TCHD@0.75: Providing tack coat @0.75kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by appropriate hand device at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Retail]	sqm	97.18	96.12	98.56	98.56
3.06.2.2.01	TCHD@0.75: Providing tack coat @0.75kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by appropriate hand device at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Bulk]	sqm	94.34	92.34	95.72	95.72
3.06.2.3	TCMD@0.5: Providing tack coat @0.50kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by mechanical distributor at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Retail]	sqm	69.53	68.79	70.29	70.29
3.06.2.3.01	TCMD@0.5: Providing tack coat @0.50kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by mechanical distributor at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Bulk]	sqm	67.64	66.27	68.40	68.40
3.06.2.4	TCMD@0.75: Providing tack coat @0.75kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by mechanical distributor at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Retail]	sqm	100.03	98.97	101.41	101.41
3.06.2.4.01	TCMD@0.75: Providing tack coat @0.75kg/sqm with 60/70 penetration grade straight run bitumen complying with the requirements of ASTM/AASHTO applied by mechanical distributor at a temperature between 175°C and 185°C including heating bitumen, surface cleaning, etc. all complete as per direction of the E-I-C.[Bulk]	sqm	97.19	95.18	98.58	98.58
3.06.3.1	7mmSC: Providing 7mm thick (minimum) compacted pre-mixed bituminous seal coat to be prepared using 6.33mm down crushed stone chips & stone dust blended together to comply the gradation as specified in the relevant item of Road Design Standards, mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO, minimum @5.5% by weight of total mix or as determined by job mix design. The bitumen and chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The mixture of bitumen and chips shall be laid uniformly on the road surface in appropriate layer so as to produce the specified compacted thickness, rolling at a temperature not bellow 90°C with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to the desired compaction, including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per direction of the E-I-C [Excluding the cost of applying Prime/Tack coat].					
3.06.3.1.01	Bitumen Grade 60/70 [Retail]	sqm	183.18	181.65	182.63	183.07
3.06.3.1.02	Bitumen Grade 60/70 [Bulk]	sqm	179.69	177.01	179.14	179.58

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.3.2	15mmSC: Providing 15mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course to be prepared using 12mm down, 6mm downgraded crushed stone chips & Stone Dust to comply the gradation as specified in the relevant item of Road Design Standards, mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO, minimum @5.0% by weight of total mix or as determined by job mix design. The bitumen and chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The mixture of bitumen and chips shall be laid uniformly on the road surface in appropriate layer so as to produce the specified compacted thickness, rolling at a temperature not bellow 90°C with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to the desired compaction, including supplying of all materials, their carriage, labours, tools and equipment etc. all complete in all respect as per direction of the Engineer-in-charge. [Excluding the cost of applying Prime/Tack coat].					
3.06.3.2.01	Bitumen Grade 60/70 [Retail]	sqm	370.71	368.22	367.88	369.63
3.06.3.2.02	Bitumen Grade 60/70 [Bulk]	sqm	364.04	359.33	361.21	362.96
3.06.4.1	25mmBC: Providing 25mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 16mm downgraded stone-chips (LAA value not exceeding 30%) to comply the gradation as specified, mixed with heated bitumen of 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly, maintaining specified camber, grade and super-elevation, only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate by Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the E-I-C. The bitumen in the mix shall be minimum @4.5% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 16mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).					
3.06.4.1.01	Bitumen Grade 60/70 [Retail]	sqm	592.49	590.33	577.60	584.18
3.06.4.1.02	Bitumen Grade 60/70 [Bulk]	sqm	583.74	578.66	568.85	575.43

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.4.2	25mmDC: Providing 25mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course with 16mm downgraded crushed stone chips complying with the specified grading requirement of the relevant item of Road Design standards, of LAA value <=30%, water absorption not >2%, flakiness index not >35% mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly on the road surface in single appropriate layer to give specified compacted thickness maintaining specified camber, grade and super-elevation. The mixture should be rolled at a temperature not below 90°C with Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction, including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per the direction of the E-I-C. The bitumen in the mix shall be between 5.0% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 16mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).					
3.06.4.2.01	Bitumen Grade 60/70 [Retail]	sqm	659.57	656.46	646.90	653.03
3.06.4.2.02	Bitumen Grade 60/70 [Bulk]	sqm	648.41	641.58	635.74	641.87
3.06.5.1	40mmBC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm downgraded crushed stone chips (LAA value <= 30%) to comply the gradation as specified, mixed with heated bitumen of 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly, maintaining specified camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C. including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the E-I-C. The bitumen in the mix shall be between @4.5% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm, 19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Retail]	sqm	937.57	936.05	912.30	921.48

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.5.1.01	40mmBC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm downgraded crushed stone chips (LAA value <= 30%) to comply the gradation as specified, mixed with heated bitumen of 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly, maintaining specified camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C. including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the E-I-C. The bitumen in the mix shall be between @4.5% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm, 19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Bulk]	sqm	923.65	917.47	898.37	907.55
3.06.5.2	40mmDC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course with 25mm downgraded crushed stone chips (LAA value <= 30%) complying with the specified grading requirement of the relevant item of Road Design standards, water absorption not >2%, flakiness index not >35% mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly on the road surface in single appropriate layer to give specified compacted thickness, maintaining specified camber, grade and super-elevation. The mixture should be rolled at a temperature not below 90°C with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction, including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per the direction of the E-I-C. The bitumen in the mix shall be between @ 5.0% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm, 19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Retail]	sqm	1,036.43	1,033.69	1,013.64	1,022.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.5.2.01	40mmDC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course with 25mm downgraded crushed stone chips (LAA value <= 30%) complying with the specified grading requirement of the relevant item of Road Design standards, water absorption not >2%, flakiness index not >35% mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly on the road surface in single appropriate layer to give specified compacted thickness, maintaining specified camber, grade and super-elevation. The mixture should be rolled at a temperature not below 90°C with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction, including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per the direction of the E-I-C. The bitumen in the mix shall be between @ 5.0% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm, 19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Bulk]	sqm	1,019.29	1,010.84	996.49	1,005.16
3.06.6	50mmBC (BG-60/70): Providing 50mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm downgraded stone-chips (LAA value <= 30%) of gradation as specified, mixed with heated bitumen of 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly, maintaining specified camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the E-I-C. The bitumen in the mix shall be between @4.5% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm,19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Retail]	sqm	1,172.24	1,170.86	1,138.65	1,150.19

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.6.01	50mmBC (BG-60/70): Providing 50mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm downgraded stone-chips (LAA value <= 30%) of gradation as specified, mixed with heated bitumen of 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. The bitumen and stone-chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively before mixing. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The bitumen and stone-chips mixture shall be laid uniformly, maintaining specified camber, grade and super-elevation only on the prepared and accepted base or surface in a single appropriate layer to give the specified compacted thickness. The mixture should be rolled with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to full compaction. The rolling temperature shall be maintained not below 90°C including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per direction of the E-I-C. The bitumen in the mix shall be between @4.5% to 5.5% by weight of total mix or as determined by job mix design. (In order to achieve the specified grading a blending of nominal maximum size of 25mm,19mm, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).[Bulk]	sqm	1,154.83	1,147.64	1,121.24	1,132.77
3.06.7	DCPM: Providing and Laying pre-mixed dense bituminous surfacing - wearing course with hot mix plant using coarse aggregate, fine aggregate, filler and bituminous binder as per design Job Mix Formula conforming Marshall Method as per specification, LAA value of aggregate should be <=30%, water absorption not >2%, flakiness index not >35% mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. Including screening, cleaning of chips and preparing a uniform and quality mix in Hot Mix Plant and ensuring a homogenous mix, in which all particles of the mineral aggregates are coated uniformly, carrying the hot premixed materials by means of Dump/tipper truck, spreading the mixed materials at specified laying temperature with a hydrostatic paver finisher with sensor control to the required grade, level and alignment over the prepared surface tamping and finishing the mix at specified compacted thickness, maintaining specified camber, grade, super-elevation and cross section, through rolling with appropriate Steel Drum Roller & pneumatic multiple tire roller (8-10 tons) to full compaction, for break down, inter - mediate and finished rolling to achieve the desired density of at least 98% of that of Laboratory Marshall specimen, hand packing and pinning to give an even surface, including cost of all materials, their carriages, hire charges of Hot Mix Plant and all other machines, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete as per the direction of the E-I-C.					
3.06.7.01	Bitumen Grade 60/70 [Retail]	cum	27,921.45	27,833.45	27,477.37	27,738.23
3.06.7.02	Bitumen Grade 60/70 [Bulk]	cum	27,492.88	27,262.02	27,048.79	27,309.65

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.06.8	BMPM: Providing and Laying pre-mixed bituminous macadam with hot mix plant using coarse aggregate, fine aggregate, filler and bituminous binder as per design Job Mix Formula conforming Marshall Method as per specification, LAA value of aggregate should be <=35%, water absorption not >2%, flakiness index not >35% mixed with 60/70 penetration grade straight run bitumen satisfying the requirements of ASTM/AASHTO. including screening, cleaning of chips and preparing a uniform and quality mix in Hot Mix Plant and ensuring a homogenous mix, in which all particles of the mineral aggregates are coated uniformly, carrying the hot premixed materials by means of Dump/tipper truck, spreading the mixed materials at specified laying temperature with a hydrostatic paver finisher with sensor control to the required grade, level and alignment over the prepared surface, tamping and finishing the mix at specified compacted thickness, maintaining specified camber, grade, super-elevation and cross section, through rolling with appropriate Steel Drum Roller & pneumatic multiple tire roller (8-10 tons) to full compaction, for break down, inter - mediate and finished rolling to achieve the desired density of at least 98% of that of Laboratory Marshall specimen, hand packing and pinning to give an even surface, including cost of all materials, their carriages, hire charges of Hot Mix Plant and all other machines, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete as per the direction of the E-I-C.					
3.06.8.1	A. For Grading -1 (25mm nominal size, 50-75mm thick) [Bitumen Grade 60/70, Retail]	cum	26,533.27	26,605.89	25,961.02	26,314.29
3.06.8.2	B. For Grading -2 (40mm nominal size, 75-100mm thick.) [Bitumen Grade 60/70, Retail]	cum	26,344.59	26,360.60	25,613.15	25,957.91
3.06.8.3	C. For Grading -1 (25mm nominal size, 50-75mm thick) [Bitumen Grade 60/70, Bulk]	cum	26,185.06	26,141.60	25,612.80	25,966.07
3.06.8.4	D. For Grading -2 (40mm nominal size, 75-100mm thick.) [Bitumen Grade 60/70, Bulk]	cum	26,005.30	25,908.21	25,273.86	25,618.62
Section-07: Concrete Pavement						
3.07.1	PS: Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by Engineer-in-charge.	sqm	48.13	47.82	47.35	47.35

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.2.1	RCC-17BCCM(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with picked brick chips and minimum cement contents relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.45 having minimum required average strength f'cr = 24 Mpa and satisfying specified minimum compressive strength f'c = 17 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, best quality sand [50% quantity of medium sand (FM. 1.2) and 50% quantity of coarse sand of equivalent FM = 2.2] and 25mm down well graded picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33 including breaking chips and screening, making, placing steel shutter in position and maintaining true to the alignment, making shutter water-tight properly, placing reinforcement in position, mixing in a batching and mixing plant as per approved mix design unless otherwise approved by the Engineer, transported to site, laid with a fixed form, compacting by vibrator machine and finished in a continuous operation including provision of contraction, expansion and longitudinal joints, joint filler, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, as per drawing complete, etc. all complete approved and accepted by the E-I-C. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. (Rate is excluding the cost of all reinforcement and its fabrication, admixtures and joint sealant, etc.) [Retail]	cum	11,512.61	11,441.21	11,145.16	11,133.71
3.07.2.1.01	RCC-17BCCM(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with picked brick chips and minimum cement contents relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.45 having minimum required average strength f'cr = 24 Mpa and satisfying specified minimum compressive strength f'c = 17 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, best quality sand [50% quantity of medium sand (FM. 1.2) and 50% quantity of coarse sand of equivalent FM = 2.2] and 25mm down well graded picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33 including breaking chips and screening, making, placing steel shutter in position and maintaining true to the alignment, making shutter water-tight properly, placing reinforcement in position, mixing in a batching and mixing plant as per approved mix design unless otherwise approved by the Engineer, transported to site, laid with a fixed form, compacting by vibrator machine and finished in a continuous operation including provision of contraction, expansion and longitudinal joints, joint filler, joint sealant, debonding strip, dowel bar, tie rod, admixtures as approved, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, as per drawing complete, etc. all complete approved and accepted by the E-I-C. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. (Rate is excluding the cost of all reinforcement and its fabrication, admixtures and joint sealant, etc.) [Bulkl]	cum	11,236.23	11,165.36	10,871.51	10,860.15

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.2.2	RCC-20BCCM(RW): Providing and laying reinforced,dowel jointed, cement concrete pavement over a prepared sub-base with picked brick chips and minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, with best quality coarse sand (FM. 2.2) and 25mm down well graded picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33 including breaking chips and screening, making, placing steel shutter in position and maintaining true to the alignment, making shutter water-tight properly, placing reinforcement in position, mixing in a batching and mixing plant as per approved mix design unless otherwise approved by the Engineer, transported to site, laid with a fixed form, compacting by vibrator machine and finished in a continuous operation including provision of contraction, expansion and longitudinal joints, joint filler, joint sealant, de-bonding strip, dowel bar, tie rod, admixtures as approved, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, as per drawing complete, etc. all complete approved and accepted by the E-I-C. Additional quantity of cement to be added if required to attain the specified strength at the contractors own cost. (Rate is excluding the cost of all reinforcement and its fabrication, admixtures and joint sealant, etc.) [Retail]	cum	12,242.56	12,190.29	11,891.76	11,885.20
3.07.2.2.01	RCC-20BCCM(RW): Providing and laying reinforced,dowel jointed, cement concrete pavement over a prepared sub-base with picked brick chips and minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, with best quality coarse sand (FM. 2.2) and 25mm down well graded picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33 including breaking chips and screening, making, placing steel shutter in position and maintaining true to the alignment, making shutter water-tight properly, placing reinforcement in position, mixing in a batching and mixing plant as per approved mix design unless otherwise approved by the Engineer, transported to site, laid with a fixed form, compacting by vibrator machine and finished in a continuous operation including provision of contraction, expansion and longitudinal joints, joint filler, joint sealant, de-bonding strip, dowel bar, tie rod, admixtures as approved, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, as per drawing complete, etc. all complete approved and accepted by the E-I-C. Additional quantity of cement to be added if required to attain the specified strength at the contractors own cost. (Rate is excluding the cost of all reinforcement and its fabrication, admixtures and joint sealant, etc.) [Bulk]	cum	11,908.75	11,856.87	11,560.57	11,554.05

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.1	RCC-20SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with crushed stone chips and minimum cement content relates to mix ratio 1:2:4 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1: 2003 CEM-II/A-M 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. All complete approved and accepted by the E-I-C. Note: minimum Cement content considered in M-20 is @300kg/cum. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. [Retail]	cum	16,660.65	16,783.92	15,738.50	15,958.34

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.1.01	RCC-20SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with crushed stone chips and minimum cement content relates to mix ratio 1:2:4 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1: 2003 CEM-II/A-M 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. All complete approved and accepted by the E-I-C. Note: minimum Cement content considered in M-20 is @300kg/cum. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. [Bulk]	cum	15,984.71	16,104.39	15,089.41	15,302.85
3.07.3.10	Supplying different inside dia best quality uPVC pressure pipe having specific gravity 1.35 - 1.45, and other physical, chemical, themal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.	m				
3.07.3.10.1	12 mm dia wall thickness 1.7 mm - 2.8 mm	m	132.07	130.00	125.17	125.17
3.07.3.10.2	19 mm dia wall thickness 1.9 mm - 2.9 mm	m	149.65	147.58	142.75	142.75
3.07.3.10.3	25 mm dia wall thickness 2.2 mm - 3.4 mm	m	191.85	189.78	184.95	184.95
3.07.3.10.4	32 mm dia wall thickness 2.7 mm - 3.6 mm	m	223.27	221.20	216.38	216.38
3.07.3.10.5	37 mm dia wall thickness 2.5 mm - 3.1 mm	m	246.86	244.79	239.96	239.96

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.2	RCC-25SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with crushed stone chips and minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 33.5 Mpa and satisfying a compressive strength f'c = 25 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form-work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. All complete approved and accepted by the E-I-C. Note: minimum Cement content considered in M-25 is @385kg/cum. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost.[Retail]	cum	17,639.47	17,763.47	16,698.89	16,923.62

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.2.01	RCC-25SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared sub-base with crushed stone chips and minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 33.5 Mpa and satisfying a compressive strength f'c = 25 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form-work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. All complete approved and accepted by the E-I-C. Note: minimum Cement content considered in M-25 is @385kg/cum. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost.[Bulk]	cum	16,883.03	17,003.41	15,969.85	16,188.03

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.3	RCC-30SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared base/sub-base with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 38.5 Mpa and satisfying a specified compressive strength, f'c = 30 Mpa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1: 2003 CEM-I 52.5N / ASTM C150 Type-1, high range water reducing admixture of complying type F/ G under ASTM C-494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self-compacting concrete), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form-work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. Note: minimum Cement content considered in M-30 is @ 440kg/cum. Additional quantity of cement to be added if required to attain the required strength at the contractor's own cost. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. (Note: Using Batching Plant, Transit Mixer & Concrete Pump). [Retail]	cum	18,830.90	18,926.14	17,916.29	18,120.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.3.01	RCC-30SCBP(RW): Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared base/sub-base with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 38.5 Mpa and satisfying a specified compressive strength, f'c = 30 Mpa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1: 2003 CEM-I 52.5N / ASTM C150 Type-1, high range water reducing admixture of complying type F/ G under ASTM C-494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self-compacting concrete), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form-work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. Note: minimum Cement content considered in M-30 is @ 440kg/cum. Additional quantity of cement to be added if required to attain the required strength at the contractor's own cost. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. (Note: Using Batching Plant, Transit Mixer & Concrete Pump). [Bulk]	cum	17,836.00	17,928.46	16,948.03	17,146.12

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.3.6	Marine Concrete_RCC-30SCBP: Providing and laying reinforced, dowel jointed, cement concrete pavement over a prepared base/sub-base with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 40 Mpa and satisfying a specified compressive strength, f'c = 30 Mpa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1: 2003 -CEM-II/B-V and adding high range water reducing admixture of complying type F/ G under ASTM C-494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self-compacting concrete), using coarse sand of minimum FM 2.50 and graded stone aggregate of 38 mm nominal size (LAA value not exceeding 25) in appropriate proportions as per approved & specified design criteria, providing dowel bars with sleeve/ tie bars wherever required, mixing in mechanized batch mix plant, transported to site, laid with a fixed form (pumping using line pump or boom placer), laying at site, spreading and compacting mechanically by using needle and surface vibrators, levelling to required slope/camber/super elevation, finishing with required texture, including steel form- work with sturdy M.S. channel sections, making provision for expansion, construction, longitudinal joints, including groove cutting by groove/saw cutting machine for contraction joints (12 mm wide x 50 mm deep), providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and its fabrication, placing, binding and, dowel bar for expansion/longitudinal joints and joint sealant etc. is not included but the cost of admixture is included in this unit rate. Note: minimum Cement content considered in M-30 is @ 450kg/cum relates to mix ratio 1:1.25:2.4. Additional quantity of cement to be added if required to attain the required strength at the contractor's own cost. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump.					
3.07.3.6.01	Specified Compressive Strength f'c=30MPa and Mix design Compressive Strength fcr=40MPa. [Retail]	cum	18,959.50	19,054.74	18,044.89	18,258.67
3.07.3.6.02	Specified Compressive Strength f'c=30MPa and Mix design Compressive Strength fcr=40MPa. [Bulk]	cum	18,123.53	18,215.99	17,235.56	17,443.12
3.07.3.9	ExJFill: Providing expansion/longitudinal joints sealing by Joint sealing compound for expansion or longitudinal joints as shown in the relevant drawings, including cleaning joints by brush on the concrete surface and cleaning all loose materials on the existing concrete surface and wash it by water jet, excess water removed by air jet or drying, including supplying and applying approved joint filler & sealant materials, sealant must comply with international standards, including supplying of all materials, their carriage, labourers, tools and equipment etc. all complete as per the direction of the E-I-C.	m				
3.07.3.9.01	Bitumen Sealant	m	99.69	98.81	96.22	96.22
3.07.3.9.02	Silicon Sealant	m	388.67	387.79	385.21	385.21

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.07.4	KS(RW): Manufacturing, Supplying and Fixing of cement concrete kerb stone with top and bottom thickness 120mm and 150mm respectively, width 380mm and height 550mm as per approved drawing for side of footpath/median/road island etc. using steel shutter, with 6mm downgraded Stone Chips of LAA value ≤35%, sand (FM>=2.2) and minimum cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N content relates to mix ratio 1:2:4 satisfying specified minimum required average strength, f'cr = 28.5 MPa and satisfying a compressive strength f'c = 20 MPa at 28 days on standard cylinders, including grading, washings stone chips, mixing in standard mixture machine, casting in forms, making shutter water-tight properly, compacting by vibrator machine and curing for at least 28 days, including preparation kerb foundation, true to level, maintaining alignment and height, including carrying and placing kerb stone, filling interstices of kerb stone tightly with cement mortar (1:4), raking out joints, cleaning and soaking kerb stone at least for 24 hours before use, curing for requisite period, etc. all complete as per drawing and direction of the E-I-C.	m	1,256.77	1,247.30	1,204.83	1,220.88
Section-08: Herring Bone Bond (HBB) Road						
3.08.1.1	PiBFS: Labour charge for picking up the existing brick flat (BFS) soling and staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	sqm	22.89	22.47	20.81	20.81
3.08.1.2	PiHBB: Labour charge for picking up the existing HBB and staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	sqm	34.68	34.05	31.53	31.53
3.08.2.1	ReBFS(FM-0.50): Labour charge for Resetting of Single layer brick flat soling (BFS) with 1st class or picked bricks, true to level, maintaining camber/super elevation and grade including carrying bricks, supplying and filling the interstices tightly with sand of minimum FM 0.50, etc. all complete as per direction of the E-I-C.	sqm	51.68	51.14	47.90	47.90
3.08.2.2	ReBFS(FM-0.80): Labour charge for Resetting of Single layer brick flat soling (BFS) with 1st class or picked bricks, true to level, maintaining camber/super elevation and grade including carrying bricks, supplying and filling the interstices tightly with sand of minimum FM 0.80, etc. all complete as per direction of the E-I-C.	sqm	52.44	51.85	48.34	48.34
3.08.2.3	ReBFS(FM<0.50): Labour charge for Resetting of Single layer brick flat soling (BFS) with 1st class or picked bricks, true to level, maintaining camber/super elevation and grade including carrying bricks, supplying and filling the interstices tightly with locally available sand (passing <=15% through #200 sieve), etc. all complete as per direction of the E-I-C.	sqm	50.50	49.20	45.88	46.54
3.08.3.1	ReHBB(FM-0.50): Labour charge for Resetting of Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade over 25mm thick sand (minimum FM 0.50) cushion including filling the interstices tightly with same type of sand, etc. including supplying sand all complete as per direction of the E-I-C.	sqm	104.51	103.65	97.26	97.26
3.08.3.2	ReHBB(FM-0.80): Labour charge for Resetting of Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade over 25mm thick sand (minimum FM 0.80) cushion including filling the interstices tightly with same type of sand, etc. including supplying sand all complete as per direction of the E-I-C.	sqm	106.27	105.31	98.28	98.28
3.08.3.3	ReHBB(FM<0.50): Labour charge for Resetting of Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade over 25mm thick locally available sand (passing<=15% through #200 sieve) cushion including filling the interstices tightly with same type of sand, etc. including supplying sand all complete as per direction of the E-I-C.	sqm	101.75	99.13	92.56	94.08

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.08.4.1	SBFS(FM-0.50): Providing Single layer brick flat soling (BFS) with 1st class or picked bricks, true to level, maintaining camber/super elevation and grade including carrying bricks, filling the interstices tightly with sand of minimum FM 0.50, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	559.91	559.37	536.58	536.58
3.08.4.2	SBFS(FM-0.80): Single layer brick flat soling in road work with first class or picked jhama bricks as per alignment, camber and grade including filling joints with sand (F.M. 0.80) etc. complete including cost of all materials and accepted by the Engineer-in-charge. [PWD 24.4.1]	sqm	689.64	686.56	656.75	656.75
3.08.4.3	SBFS(FM<0.50): Providing Single layer brick flat soling (BFS) with 1st class or picked bricks, true to level, maintaining camber/super elevation and grade including carrying bricks, filling the interstices tightly with locally available sand (passing <=15% through#200 sieve), etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	558.73	557.43	534.56	535.22
3.08.5.1	SHBB(FM-0.50): Providing Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade, including supplying and laying 25mm thick sand (minimum FM 0.50) cushion over the BFS, filling the interstices tightly with same type of sand, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	957.02	956.16	916.98	916.98
3.08.5.2	SHBB(FM-0.80): Brick on edges pavement in herring bone bond (HBB) with first class or picked jhama bricks as per alignment, camber and grade over 12 mm thick sand cushion (F.M. 0.80) including filling the joints with the same sand including cost of all materials and accepted by the Engineer-in-charge. [PWD 24.5.1]	sqm	1,120.28	1,117.19	1,067.86	1,067.86
3.08.5.3	SHBB(FM<0.50): Providing Brick on edge pavement in single layer of Herring Bone Bond (HBB) with 1st class or picked bricks true to level, maintaining camber, super elevation and grade, including supplying and laying 25mm thick sand (passing<=15% through #200 sieve) cushion over the BFS, filling the interstices tightly with same type of sand, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	954.27	951.64	912.28	913.80
Section-09: Concrete Block Road						
3.09.02	PiCCB(cum): Labour charge for picking up the existing CC Block of any sizes on soling or slope of embankment, including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	cum	464.72	456.27	422.47	422.47
3.09.04	ReCCB(cum): Labour charge for Setting/Resetting of single layer CC Block of different sizes on road top, including preparation base, true to level, maintaining camber, super elevation, grade, watering and ramming the base, including carrying CC blocks, supplying and filling the interstices tightly with sand (FM - 0.5), etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	cum	1,175.43	1,151.79	1,073.28	1,073.28
3.09.05	CCBSS-PW: Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, using steel shutter, with 40mm downgraded Stone Shingles, sand (FM>=1.5) and minimum cement content relates to mix ratio 1:3.6 satisfying specified minimum compressive strength 10.0Mpa at 28 days, including grading, washings shingles, mixing in standard mixture machine, casting in forms, making shutter water-tight properly, compacting by vibrator machine and curing for at least 28 days, including preparation of platform, shuttering and stacking in measurable stacks etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.					
3.09.05.1	PCC Block Size: 400mmX200mmX150mm	each	138.90	138.34	134.86	135.75

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.09.05.2	PCC Block Size: 375mmX100mmX225mm	each	101.85	101.38	98.66	99.29
3.09.05.3	PCC Block Size: 1000mmX500mmX(100+150)mm	each	722.97	720.10	701.97	706.60
3.09.06.1	CCBSS-EE: Providing PCC Block on End Edging (100mm across) of size (375mmX100mmX225mm), including manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, using steel shutter, with 40mm down graded Stone Shingles, sand (FM>=1.5) and minimum cement content relates to mix ratio 1:3.6 satisfying specified minimum compressive strength 10.0Mpa at 28 days, including cutting trenches true to level & grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand (FM - 0.5), etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	m	348.76	346.27	333.40	335.05
3.09.06.2	CCBSS-EE-SR: Providing CC Block on End Edging (average 125mm across) for submersible road of size [L: 1000mmXH: 500mmXW:(100mm+150mm)], including manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, using steel shutter, with 40mm down graded Stone Shingles, sand (FM>=1.5) and minimum cement content relates to mix ratio 1:3.6 satisfying specified minimum compressive strength 10.0Mpa at 28 days, including cutting trenches true to level & grade, removing earth, re-filling & ramming the sides properly, including supplying and filling the gaps with local sand (FM - 0.5), etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	m	934.38	927.74	894.28	898.90
3.09.07	CCBSC-RW: Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, for road pavement works using steel shutter, with 40mm down graded Stone Chips, sand (FM>=1.8) and minimum cement content relates to mix ratio 1:2:4 satisfying specified minimum compressive strength 20.0Mpa at 28 days, including grading, washings stone chips, mixing in standard mixture machine, casting in forms, making shutter water-tight properly, compacting by vibrator machine and curing for at least 28 days, including preparation of platform, shuttering and stacking in measurable stacks etc.all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. [Excluding the cost of labour charge for block setting].					
3.09.07.1	PCC Block Size: 375mmX225mmX150mm	each	190.62	192.61	178.38	181.84
3.09.08	CCBSC-RW: Providing single layer PCC Block on road top of size (375mmX225mmX150mm), including manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, using steel shutter, with 40mm down graded Stone Chips, sand (FM>=1.8) and minimum cement content relates to mix ratio 1:2.4 satisfying specified minimum compressive strength 20.0Mpa at 28 days, including preparation of bed by cutting or filling with ramming the filled up earth to the same profile as that of the finished pavement, including carrying and placing PCC blocks, filling the interstices tightly with sand (FM - 0.5), etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	2,307.94	2,326.48	2,156.30	2,194.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.09.09	LC-CCB: Labour charge for laying single layer CC Block of different sizes for protective wall, including preparation trenches, true to level, maintaining alignment, watering and ramming the base, including carrying and placing CC blocks, filling minimum 65% interstices of CC Block work tightly with cement mortar (1:6), raking out joints, cleaning and soaking Block at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. [Excluding the cost of CC Blocks].	cum	2,184.50	2,145.88	2,020.65	2,020.65
3.09.15	Uni-Block Paver: Supplying and laying factory made cement concrete interlocking high strength as specified paver universal uni-block made by block making machine with mechanically compressed with high load- bearing capacity, enriched weather resistance, the low water absorption capacity of standard thick and approved design/shape, size in required long lasting colour, texture and pattern conforming BS-6717 or as specified approved by the E-I-C, laid over the prepared sand bedding layer maintaining grade,camber and super-elevation, including cleaning etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge. Cost included all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, wages of labour and operational staff etc.					
3.09.15.01	60mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 25MPa	sqm	1,148.12	1,142.58	1,130.61	1,129.82
3.09.15.02	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 25MPa	sqm	1,274.23	1,268.69	1,256.72	1,255.93
3.09.15.03	60mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,198.56	1,193.02	1,181.06	1,180.26
3.09.15.04	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,324.67	1,319.13	1,307.17	1,306.37
3.09.15.05	60mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,249.00	1,243.47	1,231.50	1,230.71
3.09.15.06	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	1,375.12	1,369.58	1,357.61	1,356.82
3.09.15.07	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,526.45	1,520.91	1,508.94	1,508.15
3.09.15.08	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,677.78	1,672.25	1,660.28	1,659.48
3.09.15.09	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,576.89	1,571.36	1,559.39	1,558.59
3.09.15.10	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	1,728.23	1,722.69	1,710.72	1,709.93
3.09.15.11	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 40MPa	sqm	1,778.67	1,773.13	1,761.17	1,760.37
3.09.15.12	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 40MPa	sqm	1,778.67	1,773.13	1,761.17	1,760.37
3.09.15.13	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,879.56	1,874.02	1,862.06	1,861.26
3.09.15.14	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,980.45	1,974.91	1,962.94	1,962.15
3.09.15.15	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,930.00	1,924.47	1,912.50	1,911.71
3.09.15.16	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	2,030.89	2,025.36	2,013.39	2,012.59
3.09.15.17	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 40MPa	sqm	1,980.45	1,974.91	1,962.94	1,962.15

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.09.15.18	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 40MPa	sqm	2,081.34	2,075.80	2,063.83	2,063.04
3.09.15.19	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 45MPa	sqm	2,131.78	2,126.25	2,114.28	2,113.48
3.09.15.20	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 45MPa	sqm	2,232.67	2,227.13	2,215.17	2,214.37
3.09.16	KS-30MPa(RW): Supplying and Fixing factory made cement concrete Pre Cast kerb stone of specified size as per approved drawing and design for side of footpath/median/road island etc. using 20mm downgraded Stone Chips of LAA value ≤30%, sand (FM>=2.5) and minimum cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N content relates to mix ratio 1:1.25:2.4 satisfying specified minimum required average strength, f'cr = 38.5 Mpa and satisfying a compressive strength f'c = 30 Mpa at 28 days on standard cylinders, kerb stone should be made by specified machine with mechanically compressed with high load-bearing capacity,enriched weather resistance, the low water absorption capacity of standard thick and approved design/shape,size in required long-lasting colour, texture and pattern conforming BS-6717 or as specified approved by the E-I-C. including cutting trenches true to level & maintaining grade, alignment and height, removing earth, preparation kerb foundation, including carrying and placing kerb stone tightly, re-filling & ramming the sides properly, etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge. Cost included all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, wages of labour and operational staff etc.	cum	15,047.95	15,068.18	14,297.80	14,492.84
3.09.16.2	KS-35MPa(RW): Supplying and Fixing factory made cement concrete Pre Cast kerb stone of specified size as per approved drawing and design for side of footpath/median/road island etc. using 20mm downgraded Stone Chips of LAA value ≤30%, sand (FM>=2.8) and minimum cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N content relates to minimum mix ratio 1:1.2:2.3 satisfying specified minimum required average strength, f'cr = 45 Mpa and satisfying a compressive strength f'c = 35 Mpa at 28 days on standard cylinders,kerb stone should be made by specified machine with mechanically compressed with high load-bearing capacity,enriched weather resistance, the low water absorption capacity of standard thick and approved design/shape,size in required long-lasting colour, texture and pattern conforming BS-6717 or as specified approved by the E-I-C. including cutting trenches true to level & maintaining grade, alignment and height, removing earth, preparation kerb foundation, including carrying and placing kerb stone tightly, re-filling & ramming the sides properly, etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge. Cost included all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, wages of labour and operational staff etc.	cum	15,764.02	15,779.78	15,049.67	15,232.26
3.09.17.1	Spr&Com: Spreading filling sand @ 0.01cum/sqm or as required of minimum FM=0.8 uniformly over the laid paving blocks, including local handling, booming and compacting at least two passes of vibratory plate compactor or by appropriate mechanical means to obtain smooth top surface subsequently after 7 days later re-do the activity again [standard compactors may have a weight of about 90kg, plate area of about 0.3 sqm and apply a centrifugal force of about 15KN, such vibratory compaction should be continued till the top of each paving block is in level with its adjacent blocks. There should not be delay in compaction after laying of paving blocks to achieve uniformity of compaction and retention of the pattern of laying] etc. all complete in all respect as per drawing, specification, direction and accepted by the Engineer-in-charge.	sqm	8.30	8.26	8.09	8.09

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-10: Special Road Maintenance						
3.10.01.1	PPLM: Preparation of Pothole for small patch works (pothole, edge breaking, etc.) by cutting, scarifying and loosening of existing damaged Base/sub- base Course materials up to the depth of 150mm at the pothole areas in order to make regular shape of the pothole including leveling, dressing and compacting manually where mechanical compactors are not suitable to give a smooth surface including brushing, removing & stacking all debris at a safe distance etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	24.59	24.09	22.38	22.38
3.10.01.2	HBPMM: Preparation of hard bed by scarifying and loosening of existing top (bituminous) surface, including base/sub-base course materials up to the depth of 75mm (minimum) using mechanical means, breaking dismantled material into specified sizes (less than 40mm), with supplying of extra fresh base course materials of required specification (if required) including spreading, leveling, dressing of loose material uniformly for maintaining camber & grade, watering if needed, rolling with 8 to 10 MT road roller to give compaction to 100% of MDD as obtained by standard proctor test etc. all complete in all respect as per direction of the Engineer-in-charge. (Rate is excluding the cost of additional material supplied)	sqm	38.00	37.51	35.89	35.89
3.10.02	SB: Providing and applying sand blinding with sand of minimum FM 0.80 @0.005 cum per sqm on prepared road surface, including supplying of all material, their carriage, labours, tools and equipment, etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	5.80	5.78	5.48	5.48
3.10.03	25mmSGSS: Providing 25mm thick (average) grouting with 20mm downgraded broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying tack coat @ 0.50kg per sqm over the cleaned road surface and laying, spreading stone shingles @0.028cum per sqm (loose) on the road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006cum per sqm road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Retail]	sqm	534.45	531.54	530.24	532.75
3.10.03.01	25mmSGSS: Providing 25mm thick (average) grouting with 20mm downgraded broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying tack coat @ 0.50kg per sqm over the cleaned road surface and laying, spreading stone shingles @0.028cum per sqm (loose) on the road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006cum per sqm road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Bulk]]	sqm	526.88	521.45	522.68	525.18

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.04.1	50mmSGBC: Providing 50mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size picked brick chips, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Retail]	sqm	824.89	819.13	814.68	814.68
3.10.04.1.01	50mmSGBC: Providing 50mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size picked brick chips, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Bulk]	sqm	812.59	802.74	802.38	802.38
3.10.04.2	50mmSGSS: Providing 50mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone shingles 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size stone shingles, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Retail]	sqm	920.68	916.50	912.37	917.74
3.10.04.2.01	50mmSGSS: Providing 50mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone shingles 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size stone shingles, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Bulk]	sqm	908.39	900.11	900.07	905.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.04.3	50mmSGSC: Providing 50mm thick (average) grouting with broken stone chips (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone metal 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size stone chips, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Retail]	sqm	1,071.46	1,080.62	996.15	1,022.64
3.10.04.3.01	50mmSGSC: Providing 50mm thick (average) grouting with broken stone chips (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone metal 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size stone chips, spraying tack coat @ 0.50kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.25kg per sqm uniformly on the 1st layer and @1.50kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Bulk]	sqm	1,059.17	1,064.23	983.86	1,010.34
3.10.05.1	75mmSGBC: Providing 75mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 100mm thick (loose) in two layers, 1st layer of 60mm thick (loose) with 40mm to 25mm size and 2nd layer of 40mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size picked brick chips, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @2.00kg per sqm uniformly on the 1st layer and @2.20kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Retail]	sqm	1,187.49	1,179.48	1,167.52	1,167.52
3.10.05.1.01	75mmSGBC: Providing 75mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 100mm thick (loose) in two layers, 1st layer of 60mm thick (loose) with 40mm to 25mm size and 2nd layer of 40mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size picked brick chips, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @2.00kg per sqm uniformly on the 1st layer and @2.20kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Bulk]	sqm	1,171.60	1,158.29	1,151.63	1,151.63

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.05.2	75mmSGSS: Providing 75mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone shingles 94mm thick (loose) in two layers, 1st layer of 56mm thick (loose) with 40mm to 25mm size and 2nd layer of 38mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size stone shingles, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly on the 1st layer and @2.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Retail]	sqm	1,215.27	1,210.50	1,198.39	1,206.81
3.10.05.2.01	75mmSGSS: Providing 75mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading stone shingles 94mm thick (loose) in two layers, 1st layer of 56mm thick (loose) with 40mm to 25mm size and 2nd layer of 38mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size stone shingles, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly on the 1st layer and @2.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge. [Bulk]	sqm	1,202.03	1,192.84	1,185.15	1,193.56
3.10.05.3	75mmSGSC: Providing 75mm thick (average) grouting with Stone metal (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading Stone chips 94mm thick (loose) in two layers, 1st layer of 56mm thick (loose) with 40mm to 25mm size and 2nd layer of 38mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size stone shingles, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly on the 1st layer and @2.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Retail]	sqm	1,421.90	1,438.56	1,302.75	1,344.24
3.10.05.3.01	75mmSGSC: Providing 75mm thick (average) grouting with Stone metal (LAA value not exceeding 35) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading Stone chips 94mm thick (loose) in two layers, 1st layer of 56mm thick (loose) with 40mm to 25mm size and 2nd layer of 38mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size stone shingles, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @1.50kg per sqm uniformly on the 1st layer and @2.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Bulk]	sqm	1,408.66	1,420.91	1,289.51	1,331.00

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.06	100mmSGBC: Providing 100mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 130mm thick (loose) in two layers, 1st layer of 80mm thick (loose) with 40mm to 25mm size and 2nd layer of 50mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size picked brick chips, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @2.00kg per sqm uniformly on the 1st layer and @3.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Retail]	sqm	1,434.52	1,425.22	1,410.03	1,410.03
3.10.06.01	100mmSGBC: Providing 100mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading picked brick chips 130mm thick (loose) in two layers, 1st layer of 80mm thick (loose) with 40mm to 25mm size and 2nd layer of 50mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size picked brick chips, maintaining proper camber, level, grade, super elevation and spraying hot bitumen @2.00kg per sqm uniformly on the 1st layer and @3.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller including cleaning the surface & heating bitumen from 140°C to 160°C temperature and spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.[Bulk]	sqm	1,415.61	1,400.00	1,391.12	1,391.12
3.10.07.1	50mmSGSS(BE): Providing 50mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using bitumen emulsion of grade k-1-60 conforming to the requirements of ASTM/AASHTO, laying and spreading stone shingles 60mm thick (loose) in two layers, 1st layer of 35mm thick (loose) with 25mm to 16mm size and 2nd layer of 25mm thick (loose) mixing with 80% of 16mm to 12mm size and 20% of 12mm to 8mm size stone shingles, spraying tack coat @ 0.750kg per sqm over the cleaned road surface, maintaining proper camber, level, grade, super elevation and spraying bitumen emulsion @1.75kg per sqm uniformly on the 1st layer and @2.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller and cleaning the surface, spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	1,196.51	1,196.03	1,191.83	1,197.09
3.10.07.2	75mmSGSS(BE): Providing 75mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using bitumen emulsion of grade k-1-60 conforming to the requirements of ASTM/AASHTO, laying and spreading stone shingles 94mm thick (loose) in two layers, 1st layer of 56mm thick (loose) with 40mm to 25mm size and 2nd layer of 38mm thick (loose) mixing with 80% of 25mm to 20mm size and 20% of 20mm to 10mm size stone shingles, maintaining proper camber, level, grade, super elevation and spraying bitumen emulsion @2.25kg per sqm uniformly on the 1st layer and @3.00kg per sqm on 2nd layer, including rolling hard to full compaction with 8 to 10 MT road roller and cleaning the surface, spreading crushed stone chips/Sand (FM-1.80) @0.006 cum per sqm on road surface etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	1,537.53	1,537.78	1,528.70	1,537.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.08.1	CS@0.75MD: Providing a single coat chip sealing over a low cracked road surface, using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying bitumen by mechanical distributor on road surface @ 0.75kg/sqm, after spraying bitumen instantly spreading uniform graded crushed stone aggregates of 6.5mm average size defined as 100% passing through 10mm sieve and retain on 4.75mm sieve LAA value not exceeding 35 @ 0.006cum/sqm over the surface, sweeping the surface and hand packing for identical spreading of aggregate, surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons), including properly surface cleaning, heating bitumen upto 140°C to 180°C, etc. including cost of all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete in all respect as per direction of the Engineer-in-charge. [Retail]	sqm	147.16	146.06	146.82	148.33
3.10.08.1.01	CS@0.75MD: Providing a single coat chip sealing over a low cracked road surface, using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying bitumen by mechanical distributor on road surface @ 0.75kg/sqm, after spraying bitumen instantly spreading uniform graded crushed stone aggregates of 6.5mm average size defined as 100% passing through 10mm sieve and retain on 4.75mm sieve LAA value not exceeding 35 @ 0.006cum/sqm over the surface, sweeping the surface and hand packing for identical spreading of aggregate, surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons), including properly surface cleaning, heating bitumen upto 140°C to 180°C, etc. including cost of all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete in all respect as per direction of the Engineer-in-charge. [Bulk]	sqm	144.32	142.28	143.98	145.50
3.10.08.2	CS@1.00MD: Providing single coat chip sealing over a moderate cracked road surface, using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying bitumen by mechanical distributor on road surface @ 1.00kg/sqm, after spraying bitumen instantly spreading uniform graded crushed stone aggregates of 6.5mm average size defined as 100% passing through 10mm sieve and retain on 4.75mm sieve with LAA value not exceeding 35 @ 0.007cum/sqm over the surface, sweeping the surface and hand packing for identical spreading of aggregate, surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons), including properly surface cleaning, heating bitumen upto 140°C to 180°C, etc. including cost of all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete in all respect as per direction of the Engineer-in-charge. [Retail]	sqm	184.55	183.14	184.59	186.36
3.10.08.2.01	CS@1.00MD: Providing single coat chip sealing over a moderate cracked road surface, using 60/70 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, spraying bitumen by mechanical distributor on road surface @ 1.00kg/sqm, after spraying bitumen instantly spreading uniform graded crushed stone aggregates of 6.5mm average size defined as 100% passing through 10mm sieve and retain on 4.75mm sieve with LAA value not exceeding 35 @ 0.007cum/sqm over the surface, sweeping the surface and hand packing for identical spreading of aggregate, surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons), including properly surface cleaning, heating bitumen upto 140°C to 180°C, etc. including cost of all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete in all respect as per direction of the Engineer-in-charge. [Bulk]	sqm	180.77	178.09	180.81	182.57

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.08.3	CS@1.20MD(BE): Providing a single coat chip sealing over a moderate cracked road surface, using bitumen emulsion of grade k-1-60 conforming to the requirements of ASTM/ AASHTO, spraying bitumen emulsion by mechanical distributor on cleaned road surface @ 1.20kg/sqm, after spraying bitumen emulsion instantly spreading uniform graded crushed stone aggregates of 6.5mm average size defined as 100% passing through 10mm sieve and retain on 4.75mm sieve with LAA value not exceeding 35 @ 0.007cum/sqm over the surface, sweeping the surface and hand packing for identical spreading of aggregate, surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons), including cost of all materials, their carriages, hire charges of machineries, equipment for construction and quality control as per specification, fuels, lubricants and wages of operational staff etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	244.62	244.47	245.16	246.93
3.10.09	12mmSC: Providing 12mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course to be prepared using 10mm down, 6mm downgraded crushed stone chips & Stone Dust to comply the gradation as specified in the relevant item of Road Design Standards, mixed with 60/70 penetration grade minimum @5.0% by weight of total mix or as determined by job mix design. The bitumen and chips shall be separately heated to a temperature 140°C – 155°C and 150°C – 170°C respectively. The mixing shall be done at temperature between 140°C – 160°C at a separate place away from the fire. The mixture of bitumen and chips shall be laid uniformly on the road surface in appropriate layer so as to produce the specified compacted thickness, rolling at a temperature not bellow 90°C with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons) to the desired compaction, including supplying of all materials, their carriage, labours, tools and equipment etc. all complete in all respect as per direction of the Engineer-in-charge. [Excluding the cost of applying Prime/Tack coat].					
3.10.09.01	Bitumen Grade 60/70 [Retail]	sqm	308.01	305.95	304.96	306.48
3.10.09.02	Bitumen Grade 60/70 [Bulk]	sqm	302.68	298.84	299.63	301.14
3.10.10.1	CP-BB: Supplying, cutting and fitting of 6mm thick Chequer Plate for bailey bridge decking with minimum 6mm thick mild steel chequer plate of unit weight 49.20kg/sqm, including cutting and shaping of required sizes of bridge deck with cleaning, removing rust, etc. including local handling, carriage of the plate to the site with loading & unloading and placing, etc. all complete in all respect as per direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	kg	159.48	159.41	159.16	159.16
3.10.10.2	Welding at the splicing point of mild steel chequer plate with joist of deck at 3 points (each point being 25mm in length) using electrodes, including cleaning, local handling, cost of all materials, labours, tools, equipment, cost of power, etc. all complete as per drawings, specifications and directions of the Engineer.	each	63.17	63.12	62.62	62.62

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.11.01	CCRM-30SCCM: Providing and laying 18BWG G.I. wire meshed cement concrete layer over an old RCC/CC pavement with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 38.5 Mpa and satisfying a specified compressive strength, f'c = 30 Mpa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N/ASTM C150 Type-1, using coarse sand of minimum FM 2.50 and graded stone aggregate of 20 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria conforming to ASTM C-33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position and maintaining true to the alignment, making shutter water-tight properly, mixing in standard concrete mixture machine, maintaining allowable slump of 50mm to 75mm, including spraying cement grouting/slurry over the cleaned existing road surface, casting in forms, placing 50mm rhombus 18 BWG G.I. wire mesh in position, compacting by mechanical vibrator machine and finished in a continuous operation including making provision for contraction, expansion, construction & longitudinal joints (5-10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of 18 BWG G.I. wire mesh is not included in this unit rate. Note: minimum Cement content considered in M-30 is @ 445kg/cum. Additional quantity of cement to be added if required to attain the required strength at the contractors own cost. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. (Unit cost including all materials, cleaning the existing surface shuttering, casting, curing for 28 days, and all other incidental charges, etc.). [Retail]	cum	17,169.12	17,225.28	16,156.83	16,418.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.10.11.02	CCRM-30SCCM: Providing and laying 18BWG G.I. wire meshed cement concrete layer over an old RCC/CC pavement with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 38.5 Mpa and satisfying a specified compressive strength, f'c = 30 Mpa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N/ASTM C150 Type-1, using coarse sand of minimum FM 2.50 and graded stone aggregate of 20 mm nominal size (LAA value not exceeding 30) in appropriate proportions as per approved & specified design criteria conforming to ASTM C-33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position and maintaining true to the alignment, making shutter water-tight properly, mixing in standard concrete mixture machine, maintaining allowable slump of 50mm to 75mm, including spraying cement grouting/slurry over the cleaned existing road surface, casting in forms, placing 50mm rhombus 18 BWG G.I. wire mesh in position, compacting by mechanical vibrator machine and finished in a continuous operation including making provision for contraction, expansion, construction & longitudinal joints (5-10 mm wide x 50 mm deep) by groove cutting machine, providing and filling joints with approved joint filler and sealants, curing for 28 days, finishing to lines and grades, removing centering-shuttering after specified time approved, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of 18 BWG G.I. wire mesh is not included in this unit rate. Note: minimum Cement content considered in M-30 is @ 445kg/cum. Additional quantity of cement to be added if required to attain the required strength at the contractors own cost. The Mix Design has to be approved by the Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. (Unit cost including all materials, cleaning the existing surface shuttering, casting, curing for 28 days, and all other incidental charges, etc.). [Bulk]	cum	16,220.10	16,274.62	15,237.29	15,491.71
3.10.12.01	18 BWG (WM): Supplying and laying 50mm rhombus 18 BWG G.I. wire mesh of required size in cement concreting work, placing mesh in the middle of concreting work or as mentioned in the drawing, including cutting and carrying of wire mesh to the site, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Rate is inclusive of cost of materials, labour and all incidental charges in this connection).	sqm	274.61	274.54	274.29	274.29
Section-11: Protective Works						
3.11.01	PCCBC-10: Plain cement concrete work in foundation with minimum compressive strength of 10 Mpa at 28 days (sugessted mix proportion 1:3:6) on standard cylinder as per standard practice of Code AASTHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II /A-M, 42.5 N, best quality sand (FM. 1.2) and 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33, including breaking chips and screening, placing shutter in position and maintaining true to the alignment, making shutter water-tight properly, mixing in standard mixture machine, casting in forms, compacting by vibrator machine and curing for 28 days, removing shuttering after specified time approved, etc. all complete approved and accepted by the E-I-C. (Additional quantity of cement to be added if required to attain the strength at the contractors own cost). [Retail]	cum	9,697.70	9,667.03	9,348.15	9,348.15

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.01.01	PCCBC-10: Plain cement concrete work in foundation with minimum compressive strength of 10 Mpa at 28 days (sugessted mix proportion 1:3:6) on standard cylinder as per standard practice of Code AASTHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II /A-M, 42.5 N, best quality sand (FM. 1.2) and 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33, including breaking chips and screening, placing shutter in position and maintaining true to the alignment, making shutter water-tight properly, mixing in standard mixture machine, casting in forms, compacting by vibrator machine and curing for 28 days, removing shuttering after specified time approved, etc. all complete approved and accepted by the E-I-C. (Additional quantity of cement to be added if required to attain the strength at the contractors own cost). [Bulk]	cum	9,515.97	9,485.45	9,168.15	9,168.15
3.11.02.1	125mmBW(1:4): 125 mm brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) .[Retail]	sqm	1,425.43	1,420.76	1,364.64	1,364.64
3.11.02.1.01	125mmBW(1:4): 125 mm brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) .[PWD 04.16] [Bulk]	sqm	1,447.11	1,441.97	1,383.39	1,383.39
3.11.02.2	BW(1:4): Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). [Retail]	cum	10,330.04	10,294.71	9,888.67	9,888.67
3.11.02.2.01	BW(1:4): Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 04.3] [Bulk]	cum	10,377.47	10,339.44	9,925.25	9,925.25
3.11.03	FP(1:4): Exposed 125 mm thick pointing ornamental brick work with sorted out first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). [Retail]	sqm	1,710.39	1,704.56	1,635.57	1,635.57
3.11.03.01	FP(1:4): Exposed 125 mm thick pointing ornamental brick work with sorted out first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 04.17] [Bulk]	sqm	1,762.64	1,755.44	1,682.47	1,682.47

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1	2	3	4	5	6	7
3.11.04	RCC-20BCCM(PW): Reinforced cement concrete in Protective Works using steel shutter, with picked brick chips and minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N), with best quality sand [50% quantity of medium sand (FM. 1.2) and 50% quantity of coarse sand of equivalent FM = 2.2] and 25mm down well graded picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming ASTM C-33, including breaking chips and screening, making, placing shutter in position and maintaining true to the alignment, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing for 28 days, removing centering-shuttering after specified time approved, including cost of water, electricity, additional testing charges of materials and cylinders required by Engineer, other charges etc. all complete approved and accepted by the E-I-C. Additional quantity of cement to be added if required to attain the strength at the contractors own cost. (Rate is excluding the cost of reinforcement and its fabrication, placing and binding etc.)					
3.11.04.1	Piling Work [Retail]	cum	13,853.93	13,823.26	13,460.56	13,460.56
3.11.04.2	Vertical Wall, Grade Beams, etc. [Retail]	cum	15,232.02	15,195.53	14,788.68	14,788.68
3.11.04.3	Piling Work [Bulk]	cum	11,804.13	11,777.46	11,462.07	11,462.07
3.11.04.4	Vertical Wall, Grade Beams, etc. [Bulk]	cum	11,942.85	11,913.66	11,588.18	11,588.18
3.11.06	Labour for breaking head of hardened cast in situ bored pile/pre-cast pile up to a required length by any means but without damaging the rest and removing the dismantled materials such as concrete to a safe distance including scraps and cleaning concrete from steel/M.S. rods, straightening and bending of pile bars, preparation and making platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the situ and clearing the bed etc. complete in all respect and accepted by the Engineer-in-charge. (Measurement will be given for the actual pile head volume to be broken). [PWD 09.7]	cum	3,694.86	3,615.72	3,364.94	3,364.94
3.11.07	Labour charge for driving pre-cast RCC piles with drop hammer type rig in any type of soil, handling and keeping in position and driving with suitable monkey/drop hammer for small pile otherwise suitable mechanical means to the required depth including fitting and fixing steel cap, etc. cost included hire charges of machineries, tools & equipments, wages of operational staff etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.					
3.11.07.1	Cost of pile driving (Size-150mmx150mm) depth up to 6 m	m	310.23	304.68	283.75	283.75
3.11.07.2	Cost of pile driving (Size-150mm to 200mmx200mm) depth up to 6 m	m	448.96	444.36	428.27	428.27
3.11.07.3	Cost of pile driving (Size-150mm to 200mmx200mm) depth 6m to 12m and above	m	632.82	626.07	602.16	602.16
3.11.07.4	Cost of pile driving (Size-200mm to 250mmx250mm) depth upto 6m	m	522.24	516.99	498.59	498.59
3.11.07.5	Cost of pile driving (Size-200mm to 250mmx250mm) depth 6m to 12m and above	m	966.06	955.94	920.08	920.08
3.11.07.6	Cost of pile driving (Size-250mm to 300mmx300mm) depth upto 6m	m	642.44	635.70	611.79	611.79
3.11.07.7	Cost of pile driving (Size-250mm to 300mmx300mm) depth 6m to 12m and above	m	1,351.75	1,337.05	1,284.36	1,284.36
3.11.07.8	Cost of pile driving (Size-300mm to 350mmx350mm) depth upto 6m	m	966.06	955.94	920.08	920.08

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.07.9	Cost of pile driving (Size-300mm to 350mmx350mm) depth 6m to 12m and above	m	1,928.90	1,908.67	1,836.95	1,836.95
3.11.10	WMCCBSS-20(PW): Providing and laying cast in place 12 BWG G.I. wire meshed Cement Concrete Blocks (1000mm X 1000mm X 100mm) at bridge approaches/road slopes with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, sand of minimum FM 1.5 and 25 mm down well graded shingles (LAA value not exceeding 35) to attain a minimum 28 days cylinder strength of 20MPa (suggested mix proporation 1:2:4), including grading, washings shingles, shuttering, mixing in satndard concrete mixture machine, casting with supplying and laying 75mm rhombus 12 BWG G.I. wire mesh for required size and length in CC Block, placing mesh in the middle of CC block as it should be, compacting concrete properly, curing for 28 days, including preparation of slopes by cutting or filling with ramming the filled up earth to the same profile as that of the finished slope level, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Unit cost including all materials, shuttering, casting, curing for 28 days, and all other incidental charges, etc.) [Retail]	sqm	1,415.22	1,410.46	1,381.74	1,388.77
3.11.11	WMCCBSS-20(PW): Providing and laying cast in place 12 BWG G.I. wire meshed Cement Concrete Blocks (1000mm X 1000mm X 100mm) at bridge approaches/road slopes with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, sand of minimum FM 1.5 and 25 mm down well graded shingles (LAA value not exceeding 35) to attain a minimum 28 days cylinder strength of 20MPa (suggested mix proporation 1:2:4), including grading, washings shingles, shuttering, mixing in satndard concrete mixture machine, casting with supplying and laying 75mm rhombus 12 BWG G.I. wire mesh for required size and length in CC Block, placing mesh in the middle of CC block as it should be, compacting concrete properly, curing for 28 days, including preparation of slopes by cutting or filling with ramming the filled up earth to the same profile as that of the finished slope level, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Unit cost including all materials, shuttering, casting, curing for 28 days, and all other incidental charges, etc.) [Bulk]	sqm	1,361.66	1,357.02	1,329.00	1,335.86
3.11.13	Geo-Textile: Supplying and laying of a geo-textile filter between CC blocks and embankment slopes properly with non-woven needle punched type geo-textile filter of different grades, specification for effective erosion protection in hydraulic structures/river training works including local handling placing in position, providing machine seamed joints (with 100% polypropylene or nylon thread) or 35cm lap in dry condition or minimum 100cm lap under water including protecting the geo-textile material; from UV ray and from any other damages etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Geo-textile delivered at site should be clearly labeled with brand name and grade printed at regular intervals across the body of the fabric). Supply of 2 mm thick best quality geo-textile from approved manufacturer/origin and laying as per manufacturer's instructions approved and accepted by the Engineer-in-charge. Before commencement of laying of geo-textile, the contractor must submit the method statement for carrying out this work including sample with evidence of origin and compliance certificate from independent testing laboratory for approval. [PWD 02.8]	sqm	219.94	217.89	214.81	214.81

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.15.1	RCC(P+SP)-PW: Palisading work with Single pre-cast RCC (1:1.5:3) plate (1050mm X 600mm X 75mm) fitted with RCC (1:1.5:3) post of 150mm x 150mm, 2m long, 0.9m center to center to be driven 2/3rd of the total length (2m) of the post made of 20mm down graded brick chips. Pre-cast plate to be fitted with RCC post fixed necessary nuts and bolts at driving of post supplying all necessary nuts and bolts etc. all complete in all respect as per approved drawing enumerated in Appendix-6, specification and direction of the Engineer-in-charge. Measurement will be made on center to center distance of the post.[Retail]	m	3,887.58	3,866.96	3,768.32	3,768.32
3.11.15.1.01	RCC(P+SP)-PW: Palisading work with Single pre-cast RCC (1:1.5:3) plate (1050mm X 600mm X 75mm) fitted with RCC (1:1.5:3) post of 150mm x 150mm, 2m long, 0.9m center to center to be driven 2/3rd of the total length (2m) of the post made of 20mm down graded brick chips. Pre-cast plate to be fitted with RCC post fixed necessary nuts and bolts at driving of post supplying all necessary nuts and bolts etc. all complete in all respect as per approved drawing enumerated in Appendix-6, specification and direction of the Engineer-in-charge. Measurement will be made on center to center distance of the post.[Bulk]	m	3,623.10	3,605.12	3,506.17	3,506.17
3.11.15.2	RCC(P+DP)-PW: Palisading work with Double pre-cast RCC (1:1.5:3) plate (1050mm X 600mm X 75mm) fitted with RCC (1:1.5:3) post of 150mm x 150mm, 3m long, 0.9m center to center to be driven 2/3rd of the total length (3m) of the post made of 20mm down graded brick chips. Pre-cast plate to be fitted with RCC post fixed necessary nuts and bolts at driving of post supplying all necessary nuts and bolts etc..all complete in all respect as per approved drawing (Road Design Standards, Plate UPR-UNR-EM1-2-1)/enumerated in Appendix-6, specification and direction of the Engineer-in- charge. Measurement will be made on center to center distance of the post. [Retail]	m	6,284.47	6,256.62	6,110.19	6,110.19
3.11.15.2.01	RCC(P+DP)-PW: Palisading work with Double pre-cast RCC (1:1.5:3) plate (1050mm X 600mm X 75mm) fitted with RCC (1:1.5:3) post of 150mm x 150mm, 3m long, 0.9m center to center to be driven 2/3rd of the total length (3m) of the post made of 20mm down graded brick chips. Pre-cast plate to be fitted with RCC post fixed necessary nuts and bolts at driving of post supplying all necessary nuts and bolts etc..all complete in all respect as per approved drawing (Road Design Standards, Plate UPR-UNR-EM1-2-1)/enumerated in Appendix-6, specification and direction of the Engineer-in- charge. Measurement will be made on center to center distance of the post. [Bulk]	m	5,820.23	5,796.77	5,650.51	5,650.51
3.11.16.1	ReSP-PW: Labour charge for Re-setting of existing distorted/collapsed RCC single plate palisading work including pulling out of distorted/collapsed existing RCC post (150mmX150mm, 3m long, 0.9m c/c) and re-driven the post 2/3rd (minimum) of its total length by suitable monkey/drop hammer. Existing RCC plate to be fitted with necessary nuts & bolts at appropriate location of driven RCC post, including supplying required nuts and bolts etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	m	938.01	921.62	857.62	857.62
3.11.16.2	ReDP-PW: Labour charge for Re-setting of existing distorted/collapsed RCC Double plate palisading work including pulling out of distorted/collapsed existing RCC post (150mmX150mm, 3m long, 0.9m c/c) and re-driven the post 2/3rd (minimum) of its total length by suitable monkey/drop hammer. Existing RCC plate to be fitted with necessary nuts & bolts at appropriate location of driven RCC post including supplying required nuts and bolts etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	m	1,559.87	1,528.97	1,427.45	1,427.45

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.17	BP(Ø75mm): Supplying of straight and strong borrak bamboo posts of having minimum 75 mm diameter althrough and driving the same vertically in the ground up to required depth by any means shaping the top of the post, all complete and accepted by the Engineer-in-charge. [PWD 02.3]	m	92.50	92.50	83.25	83.25
3.11.19.1	BDS-PW: Palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of bamboo post). [PWD 02.5]	sqm	630.03	624.89	599.19	599.19
3.11.20	GBW(1:8)-PW: Providing single layer gunny bag barrier/wall for toe protection with cement (conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N) and sand (FM-1.00) mortar 1:8 filled gunny bags [minimum size L: 650mmX W:400mmX H:175mm], including washing of sand, mixing in standard mixture machine, filled & tamping the bags in place, stitching bags by hand sewing machine, curing by sprinkling water over the bags, including preparation of trenches (bed) by cutting or filling with ramming the filled up earth to the same profile as that of the finished toe level, placing the filled gunny bags along the toe line by avoiding vertical joints, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	sqm	2,197.21	2,183.29	2,113.06	2,113.06
3.11.21	GB(1:8)-SPW: Providing single layer gunny bag on slope of embankment for slope protection with cement (conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N) and sand (FM-1.00) mortar 1:8 filled gunny bags [minimum size L: 650mmX W:400mmX H:175mm], including washing of sand, mixing in standard mixture machine, filled & tamping the bags in place, stitching bags by hand sewing machine, curing by sprinkling water over the bags, including preparation of slope (bed) by cutting or filling with ramming the filled up earth to the same profile as that of the finished slope level, placing the filled gunny bags along the slope by minimum 40% overlapping to the successive previous layer and avoiding vertical joints, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	sqm	1,317.21	1,308.44	1,265.10	1,265.10
3.11.22	DSFGB: Supplying & dumping of soil filled geo-textile bags of different size and capacity (fill volume and weight when filled with dry sand/earth) at the specified locations along the bottom of piles of piers/ toe line properly, including loading, unloading, carrying geo-bags from stack-yard to dumping place by head load and power driven flat top country boat etc. including supplying of geo-textile bags (empty) of different sizes and capacity at project/work site conforming to the following Technical Specifications, filling of empty geo-textile bags of different sizes with suitable soil, stitching the bags by hand sewing machine in accordance with the detailed drawing and technical specifications with plastic thread, protecting the geo-textile bags from UV ray or any other damages and dumping the same in position etc. including higher charge and mobilization of all equipment, materials, labours, taxes, incidental charges etc. complete in all respect as per approved drawing, specification and direction of E-I-C.					
3.11.22.01	Geo-Textile Bag: Empty Size: 800mm x 650mm, Fill Volumn: 0.0520 cum & Weight: 80 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	252.51	251.64	248.64	248.64
3.11.22.02	Geo-Textile Bag: Empty Bag Size: 900mm x 700mm, Fill Volumn: 0.0730 cum & Weight: 110 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	302.47	301.55	297.89	297.89

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.22.03	Geo-Textile Bag: Empty Bag Size: 950mm x 750mm, Fill Volumn: 0.0840 cum & Weight: 125 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	340.06	339.00	334.79	334.79
3.11.22.04	Geo-Textile Bag: Empty Bag Size: 1075mm x 850mm, Fill Volumn: 0.1164 cum & Weight: 175 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	423.11	421.92	417.14	417.14
3.11.22.05	Geo-Textile Bag: Empty Bag Size: 1100mm x 850mm, Fill Volumn: 0.1333 cum & Weight: 200 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	438.71	437.38	432.07	432.07
3.11.22.06	Geo-Textile Bag: Empty Bag Size: 1300mm x 1050mm, Fill Volumn: 0.1664 cum & Weight: 250 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	600.95	599.50	593.66	593.66
3.11.23	DSFPB: Supplying and Dumping of soil filled Plastic bags at the specified locations bridge approaches/damaged slope areas properly (Each bag shall be 50kg Capacity minimum), including supplying of plastic bags, filling with suitable soil and stitching bags by hand sewing machine properly with plastic thread and dumping the same in position etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Unit cost including Plastic Bags, Stitching of bags, Filled with suitable soil, Dumping at specified locations and all other incidental charges, etc.)	bag	72.97	71.84	67.77	67.77
3.11.24	JGT_RBP: Supplying and laying of natural additive treated woven type double warp plain weave jute geo-textile (JGT) conforming to BDS 1909: 2016 for river bank and slope protection work including local handling, unrolling, placing in position, ensuring proper drapability (JGT should touch the ground surface at all points), stapling JGT by 6mm dia. U-shapped pegs/ hooknails or 37mm long mushroom shaped nails at an interval of 300mm with overlaps of 100mm, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-B (JGT Installation Guideline for River Bank Protection) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					
3.11.24.01	JGT_RBP-1: Applicable for mild to moderate River River Bank Protection work. This type of treated JGT shall have the following requirements. Ends x Picks /dm ≥ 85 x 32, Width(m) ≥ 1, Mass per unit area (gsm) = 627 ± 15%, Thickness under 2 kPa pressure (mm) = 2.0 ± 20%, AOS (O95) (μm) ≤ 150, Vertical Permeability (m/sec) ≥ 1.0 x10-3, Horizontal Permeability (m/sec) ≥ 6.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 950 x 230, Grab Tensile Elongation (%) MD x CD ≤ 35 x 45, CBR Puncture Resistance (N) ≥ 2500, Wide Width Tensile Strength (KN/m) MD x CD ≥ 20 x 10, Wide Width Elongation (%) MD x CD ≤ 12 x 10.	sqm	252.66	252.10	250.58	250.58
3.11.25	JGT-HSM: Supplying and laying of open mesh Plain Weave jute geo-textile (JGT) commonly known as Soil Saver of different grades conforming to BDS 1909: 2016 for Hill Slope Management work including local handling, unrolling, placing in position, unrolling of JGT in the direction of surface run-off, stapling JGT by 6mm dia. U-shapped hooknails at an interval of 300mm with overlaps of 100mm at the sides and 150mm at the ends, anchoring JGT within a trench at the two ends by filling the trench with big bats/gravel or other suitable materials, ensuring proper drapability (JGT must touch the ground surface at all points), filling drain materials immediately after laying of JGT, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-C (JGT Installation Guideline for Hill Slope Management) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.25.01	JGT_HSM-1: Applicable for Moderate slope (≤35 degree) & annual rainfall ≤ 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 6.5 x 4.5, Width(m) = 1.22, Mass per unit area (gsm) = 500 ± 10%, Thickness under 2 kPa pressure (mm) = 4.5 ± 10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 6.5 x 6.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	71.38	70.82	69.29	69.29
3.11.25.02	JGT_HSM-2: Applicable for Moderate slope (≤35 degree) & annual rainfall ≥ 2000mm and steep stope (>35 degree to ≤ 45 degree) & annual rainfall ≤ 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 8 x 7, Width(m) = 1.22, Mass per unit area (gsm) = 600±10%, Thickness under 2 kPa pressure (mm) = 5.5±10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 12.0 x 6.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	76.32	75.76	74.24	74.24
3.11.25.03	JGT_HSM-3: Applicable for steep stope (>35 degree to ≤ 45 degree) & annual rainfall > 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 8 x 8, Width(m) = 1.22, Mass per unit area (gsm) = 700±10%, Thickness under 2 kPa pressure (mm) = 5.5±10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 14.0 x 7.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	81.26	80.71	79.18	79.18
3.11.26	JGT_RRC: Supplying and laying of woven type untreated double warp plain weave jute geo-textile (JGT) of different grades conforming to BDS 1909: 2016 for strengthening subgrade of Road & Bridge approach including local handling, unrolling, placing in position, ensuring proper drapability (JGT should touch the ISG surface at all points), stapling JGT by 6mm dia. U-shapped pegs/ hooknails or 37mm long mushroom shaped nails at an interval of 300mm with overlaps of 100mm, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-A (JGT Installation Guideline for Rural Road Construction) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					
3.11.26.01	JGT_RRC-1 : Applicable for Strengthening subgrade of Village Roads. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 85 x 32, Width(m) ≥ 1, Mass per unit area (gsm) = 627 ± 10%, Thickness under 2 kPa pressure (mm) = 2.0 ± 10%, AOS (O95) (µm) ≤ 450, Vertical Permeability (m/sec) ≥ 3.0 x10-3, Horizontal Permeability (m/sec) ≥ 7.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 850 x 200, Grab Tensile Elongation (%) MD x CD ≤ 30 x 35, CBR Puncture Resistance (N) ≥ 2000, Wide Width Tensile Strength (kN/m) MD x CD ≥ 20 x 10, Wide Width Elongation (%) MD x CD ≤ 12 x 10.	sqm	186.74	186.18	184.66	184.66
3.11.26.02	JGT_RRC-2 : Applicable for Strengthening subgrade of Union or Higher Roads. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 94 x 39, Width(m) ≥ 1, Mass per unit area (gsm) = 724 ± 10%, Thickness under 2 kPa pressure (mm) = 2.0 ± 10%, AOS (O95) (µm) ≤ 300, Vertical Permeability (m/sec) ≥ 2.0 x10-3, Horizontal Permeability (m/sec) ≥ 6.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 925 x 425, Grab Tensile Elongation (%) MD x CD ≤ 35 x 40, CBR Puncture Resistance (N) ≥ 2150, Wide Width Tensile Strength (kN/m) MD x CD ≥ 25 x 10, Wide Width Elongation (%) MD x CD ≤ 15 x 12.	sqm	216.40	215.85	214.32	214.32

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.27	S&DSP: Supplying, delivering, assembling & installing of circular steel pipe conforming to ASTM A 252/ AASHTO M 183 of different diameter (internal) to a depth as shown in approved construction drawings for piling works including lowering & pitching the fabricated pipe in position, driving the pipe below bed level through all types of soils, fixing the pipe in position with necessary lateral bracings (if required) etc. for stability until completion of all works, including cost of gas cutting, bending, welding at fabrication shop & construction site, transporting & unloading safely at working site, driving of pipes, all sorts of labour, materials, hire charges of driving equipment, tools, any other related equipment, fuel, lubricants and wages of operational staff, taxes etc. all complete as per design, drawing, specification & direction of E-I-C. Only length of steel pipe driven as per drawing will be paid, wastage shall not be considered for payment. All longitudinal and transverse welds shall be made with full penetration butt welds and adjacent segments shall be rotated 90 degree relative to each other so that longitudinal welds on the fabricated casing are staggered. The outside (expose) surface of the steel pipe shall receive two coats of anti-corrosion tar type paint which shall be approved by the E-I-C and its application shall follow the manufacturer's instructions. If the handling, transportation, driving arrangement requires a greater thickness to avoid deformation or buckling of pipe, the increase in thickness shall be provided by the contractor at his own expense.					
3.11.27.01	200mm internal diameter and 6mm wall thickness	m	5,427.05	5,426.59	5,424.73	5,424.73
3.11.28	PCC Block-17MPa (PW): Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM- II/A-M 42.5N, sand of minimum FM 1.5 and 20 mm down well graded Shingles/stone chips(LAA value not exceeding 35) to attain a minimum 28 days cylinder strength of 17.00 MPa (suggested mix proportion 1:2:4), including grading, washings shingles, mixing in standard mixture machine, casting in forms, making shutter water-tight properly, compacting by vibrator machine and curing for at least 28 days, including preparation of platform, shuttering and stacking in measurable stacks, cost of all materials, labor, equipment and machinery, work at all leads and lifts, loading and unloading, transportation and all other incidental charges etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Steel shutter shall be used to perform the job.					
3.11.28.01	Size 400mmX400mmX200mm	each	416.48	416.03	405.87	408.37
3.11.28.02	Size 400mmX400mmX150mm	each	312.59	312.25	304.63	306.51
3.11.28.03	Size 400mmX400mmX100mm	each	208.17	207.95	202.88	204.13
3.11.28.04	Size 300mmX300mmX200mm	each	234.16	233.91	228.20	229.61
3.11.28.05	Size 300mmX300mmX150mm	each	176.05	175.86	171.56	172.62
3.11.28.06	Size 300mmX300mmX100mm	each	117.02	116.90	114.04	114.75
3.11.28.07	Cast-in-Situ Blocks of required sizes as per drawing	cum	13,018.52	13,004.62	12,687.04	12,765.32

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.29	PHCC Block-17MPa (PW): Manufacturing and supplying Plain Cement Hollow Concrete (PHCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM- II/A-M 42.5N, sand of minimum FM 1.5 and 20 mm down well graded shingles/stone chips(LAA value not exceeding 35) to attain a minimum 28 days cylinder strength of 17.00 MPa (suggested mix proportion 1:2:4), including grading, washings shingles, mixing in standard mixture machine, casting in forms, making shutter water-tight properly, compacting by vibrator machine and curing for at least 28 days, including preparation of platform, shuttering and stacking in measurable stacks, cost of all materials, labor, equipment and machinery, work at all leads and lifts, loading and unloading, transportation and all other incidental charges etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Steel shutter shall be used to perform the job.					
3.11.29.01	Size 400mmX400mmX200mm; hole diameter = 100mm	each	421.54	421.05	410.68	413.20
3.11.29.02	Size 400mmX400mmX150mm; hole diameter = 100mm	each	316.57	316.20	308.41	310.31
3.11.29.03	Size 400mmX400mmX100mm; hole diameter = 100mm	each	210.45	210.21	205.03	206.29
3.11.29.04	Cast-in-Situ Blocks of required sizes as per drawing	cum	13,746.05	13,729.98	13,391.95	13,474.18
3.11.30	ICC Block-20MPa (PW): Manufacturing and supplying of Interlocking Cement Concrete (ICC) Blocks (Factory made) with necessary interlocking arrangement as per design of suitable size & arrangement with Portland Composite Cement (CEM-II/AM 42.5N), sand (F.M> 1.5) and Shingles/stone chips (20mm downgraded, LAA value not exceeding 35) to attain a minimum 28 days cylinder strength of 20.00 MPa (suggested mix 1:1.5:3), including grading, washing shingles, mixing, laying in forms, consolidating, curing for a at least 28 days, including preparation of platform, shuttering and staking in measurable stacks, cost of all materials, labor, equipment and machinery, work at all leads and lifts, loading & unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel frame to be used for performing job.(Payment should be made after setting the blocks at site properly)					
3.11.30.01	Thickness 100mm	sqm	1,597.02	1,595.16	1,558.54	1,567.33
3.11.30.02	Thickness 125mm	sqm	1,963.40	1,961.10	1,916.08	1,926.89
3.11.30.03	Thickness 150mm	sqm	2,295.82	2,293.14	2,240.50	2,253.13
3.11.30.04	Suitable size & interlocking arrangement	cum	15,306.69	15,288.82	14,937.85	15,022.10
3.11.31	ICC Block-20MPa (PW): Manufacturing and supplying of Interlocking Cement Concrete (ICC) Blocks (Factory made) with necessary interlocking arrangement as per design of suitable size & arrangement with Portland Composite Cement (CEM-II/AM 42.5N), sand (F.M> 1.2) and Sylhet Sand (F.M>2.5) to attain a minimum 28 days cylinder strength of 20.00 Mpa (suggested mix 1:1.5:2), including grading, washing, mixing, laying in forms, consolidating, curing for at least 28 days, including preparation of platform, shuttering and staking in measurable stacks, cost of all materials, labor, equipment and machinery, work at all leads and lifts, loading & unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel frame to be used for performing job.(Payment should be made after setting the blocks at site properly). (Suitable size & interlocking arrangement) [Retail]	cum	11,862.06	11,754.19	11,612.42	11,592.02

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.31.01	ICC Block-20MPa (PW): Manufacturing and supplying of Interlocking Cement Concrete (ICC) Blocks (Factory made) with necessary interlocking arrangement as per design of suitable size & arrangement with Portland Composite Cement (CEM-II/AM 42.5N), sand (F.M> 1.2) and Sylhet Sand (F.M>2.5) to attain a minimum 28 days cylinder strength of 20.00 Mpa (suggested mix 1:1.5:2), including grading, washing, mixing, laying in forms, consolidating, curing for at least 28 days, including preparation of platform, shuttering and staking in measurable stacks, cost of all materials, labor, equipment and machinery, work at all leads and lifts, loading & unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel frame to be used for performing job.(Payment should be made after setting the blocks at site properly). (Suitable size & interlocking arrangement) [Bulk]	cum	10,017.95	9,924.15	9,800.88	9,783.13
3.11.32	RCC(TW-600): Construction and Installation in position RCC toe wall as per standard drawing enumerated in Appendix-6 (type design for protective work) with 3.5m long 200mmX200mm RCC Pre-cast Post, 300mmX500mm Capping Beam and 600mm RCC wall having thickness 150mm using 20mm down graded crushed stone chips (LAA value not exceeding 30), sand (minimum FM 2.5) and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N to attain a minimum 28 days cylinder crushing compressive strength 25.00 Mpa (mixing ratio 1:1.5:3 & maximum water cement ratio 0.4) as per standard practice of code AASHTO/ASTM including supplying, fabricating and binding of 400/420 Grade MS deformed bar of required size, length and spacing, excavating minimum 600mm depth foundation trenches for capping beam and laying one layer polythene sheet, casting 75mm thick cement concrete (1:3:6) below the capping beam. Pre-cast Post must be driven by suitable monkey/drop hammer in full length of the post @ 1.0 meter c/c into the ground laying on proper alignment as per design, breaking head (400mm length) of all post carefully, scrapping and removing concrete from Steel/MS rod including all types of form work etc by means approved designed all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Unit cost includes all casting work, reinforcement, its fabrication, shuttering, curing for 28 days, driving of the post, pile shoe, lab testing charges as per design, and all other incidental charges, etc.)	m	18,549.50	18,522.33	17,787.75	17,913.18

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.11.33	Brick (BP-TW): Construction and Installation in position brick palisading work as per standard drawing enumerated in Appendix-6 (type design for protective work) with 375mm thick Brick Masonry work upto 500 mm height from bottom & rest 500 mm height 250mm thick Brick Masonry work and Pre cast RCC Post of 03 (three) meter long (150mmX150mm) and capping beam (200mmX150mm) using 20mm down graded crushed stone chips (LAA value not exceeding 30), sand (minimum FM 2.5) and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N to attain a minimum 28 days cylinder crushing compressive strength 25.00 Mpa (mixing ratio 1:1.5:3 & maximum water cement ratio 0.4) as per standard practice of code AASHTO/ASTM including supplying, fabricating and binding of 400/420 Grade MS deformed bar of required size, length and spacing. The pre-cast post must be driven by suitable monkey/drop hammer in 5/6 th of its total length @ 1 m c/c into the ground laying on proper alignment. Brick Masonry work in cement mortar (1:3), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, including flush pointing at front face of the brick wall with cement mortar (1:2), curing for requisite period, including excavating minimum 575mm depth foundation trenches for brick wall and laying one layer polythene sheet, casting 75mm thick cement concrete (1:3:6) below the 375 mm brick work by means approved designed including form work, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Unit cost includes Brick wall, all casting work, reinforcement, its fabrication, shuttering, curing for 28 days, driving of the post, lab testing charges as per design and all other incidental charges, etc.)					
3.11.33.01	with capping beam	m	9,631.95	9,612.27	9,264.28	9,297.12
3.11.33.02	without capping beam	m	8,488.78	8,467.74	8,159.38	8,183.25
3.11.34	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). [PWD 15.1.1]	sqm	323.75	321.69	305.25	305.25
3.11.34.1	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). [Retail]	sqm	328.23	326.99	314.15	314.15
3.11.35	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 Mpa at 80°c & 20°c respectively according to ISO 4427:2007(E)), PN-6 (nominal pressure for PN-6 is 0.6 MPa according to ISO 4427:2007(E)) & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm3 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM/BS/ISO/IS standards ,fitted and fixed in position with necessary joints and fittings with all accesories complete approved and accepted by the Engineer- in- charge. [For underground, including earth cutting & preperation of bed]	m				
3.11.35.01	HDPE pipe of 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm	m	3,330.67	3,330.67	3,330.67	3,330.67

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-12: Road Safety Works						
3.12.01.1	kmPost: Providing, fitting and fixing rectangular Kilometer Post as per standard drawing enumerated in Appendix-6 (type design for Kilometer post) with Reinforced Cement Concrete (1:2:4) Plate with 20mm down well graded brick chips in correct position true to line and level, including cost of providing 4 nos. of 12mm dia M.S. rods in vertical direction of length 1085mm and 7nos. Of 10mm dia M.S. rods in horizontal direction of length 520mm, RCC Plate firmly fixed to the ground by means properly designed foundation as per approved drawing with 1st class bricks work in cement mortar (1:4), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, including 6mm thick plaster (1:4) in all exposed portion, curing for requisite period, with two coat of painting on the exposed portion of the post with best quality synthetic enamel paint of approved brand of different shades over a coat of priming, including carriage of the post to the site with loading & unloading and printing of letters and numbers, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	each	4,109.27	4,091.08	3,951.46	3,950.80
3.12.01.2	RNPlate: Providing, fitting and fixing rectangular Road Name Plate as per standard drawing enumerated in Appendix-6 (type design for Road Name Plate) with Reinforced Cement Concrete (1:2:4) Plate with 20mm down well graded brick chips in correct position true to line and level, including cost of providing 7 nos. of 12mm dia M.S. rods in vertical direction of length 1125mm and 8nos. Of 10mm dia M.S. rods in horizontal direction of length 970mm, RCC Plate firmly fixed to the ground by means properly designed foundation as per approved drawing with 1st class bricks work in cement mortar (1:4), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, including 6mm thick plaster (1:4) in all exposed portion, curing for requisite period, with two coat of painting on the exposed portion of the post with best quality synthetic enamel paint of approved brand of different shades over a coat of priming, including carriage of the post to the site with loading & unloading and printing of letters and numbers, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	each	7,780.37	7,746.40	7,476.76	7,475.54
3.12.02	RCC-Gpost: Prroviding, fitting and fixing 200mm dia round RCC Guide Post 1.70m long as per standard drawing enumerated in Appendix-6 (type design for Guide Post) with Reinforced Cement Concrete (1:2:4) with 20mm down well graded brick chips casting, curing for requisite period, including cost of providing 4nos.of 12mm dia. Rod of length 1.65m as main reinforcement and 12 nos. of round shaped 8mm dia rods used as binders; including two coats of painting with best quality synthetic enamel paint over a prime coat of approved brand of different colour and grade to form 6 nos. horizontal alternate bands in white/yellow and red to 90 cm length standing up above ground, making hole in ground of 800mm depth and 300m minimum dia, fixing the guard posts in the same holes and repacking the earth properly so as to keep the guard posts standing properly erect in correct position true to line and length including carriage of RCC Guide Post with due care to the site including loading into the truck and unloading at site complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	each	1,911.63	1,904.44	1,870.57	1,869.82

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.12.03	RS-Plate: Supplying, fitting and fixing of Road Sign plates (Precautionary/Mandatory/Informative/Direction) made of 18 BWG M.S. sheet of equilateral triangle/Circular/Rectangular plates of different sizes as per standard drawing enumerated in Appendix-6 fitted with MS triangular/Rectangular frame of same size as plates by point welding RS-Plate: Supplying, fitting, and fixing of Road Sign plates(Precautionary/Mandatory/Informative/Direction) made of 18 BWG M.S.sheet of equilateral triangle/Circular/Rectangular plates of different sizes as per standard drawing enumerated in Appendix-6 fitted with MStriangular/Rectangular frame of the same size as plates by point welding (frames made by thorough welding of 25mmX25mmX3mm MS angle covering all sides of the plates and maximum 150mm center to center in the middle of frames in each vertical & horizontal directions), Plates are fitted with 50mm dia & 2.90mm thick GI pipes by continuous welding, including cutting of MS angle touched with GI pipe and 200mm long 4 nos. 12mm dia anchor bars be fitted at the lower part of the MS pipes by welding, making finishing, grinding and carrying to the working sites, etc. all complete in all respect as per design, specification and direction of the Engineer-in-charge. (Rate excludes the material cost of 50mm dia MS pipes & 4 nos. 12mm dia anchor bar	sqm	3,876.96	3,865.61	3,799.40	3,799.40
3.12.04	CRS-Plate: Providing and fixing of retro-reflectorized cautionary, mandatory and informatory sign as per standard drawing enumerated in Appendix-6 (type design for Traffic Signs) made of 18 BWG M.S. sheet of equilateral triangle/Circular/Rectangular plates of different sizes as mentioned in the drawing fitted with MS triangular/Rectangular frame of same size as plates by point welding (frames made by thorough welding of 25mmX25mmX3mm MS angle covering all sides of the plates and maximum 150mm center to center in the middle of frames in each vertical & horizontal directions), Plates are fitted with 50mm dia & 2.90mm thick MS pipes by continuous welding, including cutting of MS angle at touched point of MS pipe, including cost of providing 200mm long 4 nos. 12mm dia anchor bars be fitted at the lower part of the GI pipes by welding, making finishing, grinding and carrying to the working sites, the post firmly fixed to the ground by means of properly deigned foundation with cement concrete of minimum cylinder crushing strength of concrete 17.0Mpa at 28 days of curing (Suggested Mix Proportion 1:2:4), 60cm below the ground level, the signs properly erect in correct position, true to line and length, including two coats of painting with best quality synthetic enamel paint of approved brand & printing with retro-reflective paint of different approved colour, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.					
3.12.04.1	600mm equilateral triangle with 671mm X 202mm supplementary Plate (For Precautionary Sign)	each	6,783.82	6,767.78	6,648.12	6,648.12
3.12.04.2	600mm circular with 600mm X 202mm supplementary Plate (For Compulsory Sign)	each	7,109.48	7,092.41	6,966.08	6,966.08
3.12.04.3	435mm X 500mm Square with 435mm X 202mm supplementary Plate (For Informative Sign)	each	6,587.86	6,572.33	6,455.99	6,455.99
3.12.04.4	810mm X 480mm Rectangular (For Informative Sign)	each	6,790.65	6,773.98	6,650.47	6,650.47
3.12.04.5	600mm X 605mm Rectangular (For Chevron Sign)	each	5,902.90	5,891.00	5,805.02	5,805.02

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.12.05	Painting the vertical end faces of posts, wheel guard, railing, rail post, parapet wall, kilometer post, road name plate, guide post, traffic signs, etc. in two coats with best quality synthetic enamel paint of approved make and brand of different shades over a coat of priming, applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray, including cleaning and washing the surface, rubbing and mending good damages as necessary and necessary scaffolding, etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.					
3.12.05.1	Two coats over a prime coat for new concrete surface.	sqm	231.45	230.20	218.94	218.94
3.12.05.2	Two coats for old concrete surface and steel surface.	sqm	137.28	136.57	130.13	130.13
3.12.06	Painting and writing on kilometer post, road name plate, traffic signs, etc. in two coats with best quality synthetic enamel paint of approved make and brand of different shades, applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat by brush/roller/spray with cleaning and washing the surface, rubbing and mending good damages as necessary and necessary scaffolding, including printing new letter and figures of any shade with synthetic enamel paint black or any other approved colour to give an even shade etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	sqm	342.70	341.34	323.28	323.28
3.12.07	RMP: Providing and applying road marking paint (lines, dashes, arrows, etc.) on road hump, pedestrian crossing, lane line, warning line, barrier line, edge line, zig-zag line, give-way marking, etc. on road/plain surface by brush/roller in two coats with ready mixed road marking paint, including cleaning the surface of all dirt, oils, grease, dust and other contaminants, demarcation at site and traffic control involved. The finished surface to be level, uniform and free from streaks and holes, etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour machinery, lighting, guarding, maintenance of diversion and all incidental charges in this connection.					
3.12.07.1	Two coats for new surface	sqm	416.01	415.34	409.39	409.39
3.12.07.2	Two coats on old surface	sqm	339.11	338.53	333.31	333.31
3.12.08.01	RMP(By-TPC): Providing and applying road markings of center line and stop line etc. with 5mm to 7mm thick hot applied thermoplastic compound including reflectorising glass beads @ 250mgs per sqm area by special applicator machine on road/plain surface, including cleaning the surface of all dirt, oils, grease, dust and other contaminants, demarcation at site and traffic control involved, the finished surface to be level, uniform and free from streaks and holes, etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour machinery, lighting, guarding, maintenance of diversion and all incidental charges in this connection.	sqm	1,116.37	1,113.49	1,103.76	1,103.76
3.12.08.02	RMP(By-TPC): Providing and applying road markings of center line and stop line etc. With minimum 5 to 6 mm thick hot applied white/yellow thermoplastic compound (The materials shall comply with BS3262:1987' Specification for Hot-applied Thermoplastic Road Marking Materials') by special applicator machine on road/plain surface, including cleaning the surface of all dirt, oils, grease, dust and other contaminants,demarcation at site and traffic control involved, the finished surface to be level, uniform and free from streaks and holes, etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour machinery, lighting, guarding, maintenance of diversion and all incidental charges in this connection.	sqm	990.10	987.22	977.49	977.49

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
3.12.10	RRSheeting: Supplying and fixing retro-reflectorised reflective sheeting on cautionary, mandatory and informatory traffic signs with honey comb retro-reflectorised (encapsulated lens type) reflective sheet of approved brand of different colour, including cleaning and washing the surface and necessary scaffolding, etc. including carriage of sheet to the site and fixing, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	sqm	3,162.24	3,160.34	3,155.93	3,155.93
3.12.11	AR-Paint: Supplying & providing flexible and acrylic type reflectorized traffic painting/ coating on rail post, rail bar, wheel guard, Guide Post, Pier column etc. Including cleaning the surface of all dirt, oils, grease, dust and other contaminants, demarcation at site and traffic control involved. The finished surface to be level, uniform and free from streaks and holes, etc. all complete in all respect as direction of the Engineer-in-charge. Rate is inclusive of cost of all materials, labour machinery, lighting, guarding and all incidental charges in this connection.	sqm	680.55	683.32	666.29	666.29

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 4 : Bridge Works						
Section-01: General, Site Facilities, Environmental Mitigation & Enhancement Works						
4.01.01	Dismantling of existing/ damaged structures like culverts, bridges, retaining walls comprising of masonry, cement concrete, wood work, steel work by manual/ mechanical means and sorting the dismantled material, disposal of unserviceable material and stackting the serviceable material with all lifts and lead up to 1000 meters including scrapping and removing concrete from MS rods, preparation and erection of platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the site and clearing the river/canal bed, etc. all complete as per direction of the E-I-C. Cost of conveying, loading, transportation of unserviceable material accumulated during dismantling operation is included in this unit rate. The unserviceable material must be disposed at a safe place outside the site premises with minimum traffic disruption and the procuring entity will not provide any environmentally safe place for disposing the unserviceable materials.					
4.01.01.01	RCC works					
4.01.01.01.01	Case I: By Manual Means	cum	2,637.74	2,597.49	2,431.17	2,431.17
4.01.01.01.02	Case II: By Manual Means submersed in water	cum	3,956.61	3,896.23	3,646.76	3,646.76
4.01.01.01.03	Case III: By Mechanical Means	cum	2,813.59	2,795.90	2,749.50	2,749.50
4.01.01.01.04	Case IV: By Mechanical Means submersed in water	cum	4,220.38	4,193.85	4,124.25	4,124.25
4.01.01.02	PCC Works					
4.01.01.02.01	Case I: By Manual Means	cum	1,077.87	1,063.57	1,009.02	1,009.02
4.01.01.02.02	Case II: By Manual Means submersed in water	cum	1,616.81	1,595.36	1,513.52	1,513.52
4.01.01.02.03	Case III: By Mechanical Means	cum	1,645.47	1,637.10	1,617.93	1,617.93
4.01.01.02.04	Case IV: By Mechanical Means submersed in water	cum	2,468.21	2,455.66	2,426.90	2,426.90
4.01.01.03	Brick Works					
4.01.01.03.01	Case I :By Manual/ Mechanical Means	cum	770.67	762.19	729.62	729.62
4.01.01.03.02	Case II :By Manual/ Mechanical Means submersed in water	cum	1,156.00	1,143.29	1,094.42	1,094.42
4.01.01.04	Steel Work in all types of sections upto a height of 10m above plinth level including cutting of rivets.					
4.01.01.04.01	Case I: Including dismembering	MT	3,721.29	3,679.22	3,445.86	3,445.86
4.01.01.04.02	Case II: Excluding dismembering	MT	2,848.09	2,811.17	2,642.28	2,642.28
4.01.01.05	Wood Work wrought framed and fixed in frames of trusses upto a height of 10 m above plinth level	cum	1,309.34	1,297.47	1,226.71	1,226.71
4.01.01.06	Dismantling wooden bullah in posts and structs	m	28.57	28.07	26.91	26.91
4.01.01.07	Scraping of Bricks dismantled from Brick Work including Stacking	1000 nos.	2,533.57	2,485.90	2,304.05	2,304.05
4.01.01.08	Removing & disposing all types of Pre-cast/ cast-in-situ pipes including Earthwork and Dismantling of Masonry Works.					
4.01.01.08.01	Up to 600mm diameter	m	375.81	368.75	341.76	341.76
4.01.01.08.02	For 600mm to 900mm diameter	m	508.23	498.64	462.20	462.20
4.01.01.08.03	For above 900mm diameter	m	870.17	853.77	791.35	791.35
4.01.11	Overall environment management in addition to the clause 27 & 29 of GCC to the entire satisfaction of Engineer-in-charge					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.01.11.01	Improvement of Waste Disposal Facility for temporary camp site. There should be atleast one camp in each site, there should be 1 no of organic waste and 1 no of inorganic waste disposal facility.	each	13,241.67	13,241.67	13,241.67	13,241.67
Section-02: Topographical Survey, Geotechnical Investigation & Preparation of Report						
4.02.01	Conducting detailed topographical survey by electronic total station (digital survey equipment) and investigation and collection of hydraulic data (essential design data as per appraisal format for bridges and culvert) regarding catchment area, L-section of road and canal, X-section of canal at the point of crossing at upstream and down stream as well as making of HFL/OFL, transferring and fixing of pucca bench mark at site, to pin point all salient features such as roads, building, trees, water body, play field, green area, water supply lines, sewer lines, electric/ telephonic lines with poles, wells etc., taking all the boundary measurement, internal angles, North direction, preparation of survey drawing including spot levels/ contours ongrids 5m x 5m and plotting on AutoCAD etc. complete including of all necessary material and labour required for survey work. Contractor shall submit final topographical survey drawings in five copies duly spiral binded along with soft copy.					
4.02.01.01	For catchment area less then 1.25 sq. Km.	each	38,148.61	38,148.61	38,148.61	38,148.61
4.02.01.02	For catchment area less then 1.25 to 2.50 sq. Km.	each	76,297.22	76,297.22	76,297.22	76,297.22
4.02.01.03	For catchment area beyond then 2.50 sq. Km.	each	106,816.11	106,816.11	106,816.11	106,816.11
4.02.02	Survey and investigation and preparation of Report for bridge approach road work with chain and compass, auto level, theodolite or total station including fixing of permanent benchmark and also fixing of bench mark on all the permanent structures, along the alignment, like boundary wall, electrical poles etc. Also marking of locations of boundary wall, electric poles, telephone poles trees etc. in the road boundary, collection and submission of existing inventory of the road all along the alignment conducting survey@20 metre interval for L-section and for single lane X-section interval will be @ 0.75, 1.25, 1.875, 2.60, 3.75, 4.50, 5.50 and 6.50 metre on both side of centre line for double or other lane interval for x-section shall be as specified by the E-I-C. Data collected as specified above are required to be submitted in both hard and soft copies, L-section, X-section and plan is required to be submitted in the shape of drawing sheets drawn with the help of auto plotter. Preparation of report complete and submission of the same in five copies duly spiral binded.					
4.02.02.01	For single lane road	km	22,889.17	22,889.17	22,889.17	22,889.17
4.02.02.02	For double lane road	km	29,755.92	29,755.92	29,755.92	29,755.92
4.02.02.03	Beyond the double lane	km	36,622.67	36,622.67	36,622.67	36,622.67
Section-03: Temporary bamboo/ wooden Bridge & Diversion road						
4.03.01	Construction of 2m wide temporary bamboo diversion bridge with 100mm average dia pucca borak bamboo in 4 (four) lines of posts longitudinally and required lines of posts 2m c/c transversely with beams and struts and every post with double bracing's and each post driven to at least 0.75m depth including half split bamboo decking including supplying nuts, bolts, etc. fitting, fixing and supply, carrying and cost of all materials & labour, etc. all complete as per direction of the Engineer.	m	3,831.26	3,809.06	3,751.81	3,751.81
4.03.02	Construction of 0.25m width bamboo sanko with 100mm dia pucca borak bamboo posts of required length @2.5m c/c driven at least 1m below ground level of stream with 75mm dia full bamboo decking beams, breaching diagonals with 100mm dia bamboo including fitting, fixing to complete satisfaction including supply of nails, nuts, bolts, etc. all materials, carrying and labour, etc. all complete as per direction of the Engineer.	m	1,715.11	1,702.50	1,667.82	1,667.82

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.03.03	MS work in timber/ Iron bridge or timber/ Iron structure including the supply, carrying and fitting of specified approved nuts, bolts, hinges, cleats, screws, washer, fish plate of specified and approved size and make, etc. all complete as per drawing and direction of the E-I-C.	kg	143.89	143.89	139.92	139.92
4.03.04	Wood work with specified timber of different sizes in superstructure of timber bridges i.e. bracing's, struts, diagonals, beams, cross beams, decking, railings, etc. including supply and carrying of timber, sizing and shaping, fitting, fixing with nut, bolt, nails, screw, washer including providing fish plate, etc. all complete as per design. The wood must be free from rots, knots, sap and shall be seasoned and creosoted with creosote oil, etc. all complete including supply, carrying and cost of all materials and labour, etc. all complete as per direction of the E-I-C.					
4.03.04.01	Jam (Black Berry/Jarul/Local Korai)	cum	117,413.23	112,555.43	118,125.76	118,125.76
4.03.04.02	Chittagong Silkorai	cum	130,773.44	130,369.88	129,260.11	129,260.11
4.03.04.03	Sundari/ Garjan	cum	117,413.23	112,555.43	118,125.76	118,125.76
4.03.04.04	Shisu/ Mehagoni	cum	108,506.00	108,102.44	106,992.67	106,992.67
4.03.04.05	Shal	cum	117,413.23	112,555.43	118,125.76	118,125.76
4.03.04.06	Babla	cum	76,183.72	75,780.17	74,670.39	74,670.39
Section-04: Bailey Bridge (PSB), Steel pontoon and Steel Bridge						
4.04.01	PSB-LE: Labour charge for erecting and assembling of PSB, fitting, fixing in proper position and providing necessary decking by arrangement of all necessary tools and equipment including local handling of bridge parts and all incidental charges, etc. all complete as per direction of the E-I-C.					
4.04.01.01	Single Bailey Bridge or Acrow panel.	m	8,601.97	8,432.27	7,831.85	7,831.85
4.04.01.02	Double single Bailey Bridge or Acrow panel.	m	10,102.16	9,902.88	9,197.73	9,197.73
4.04.01.03	Calender Hamilton truss bridge	m	41,439.99	40,621.86	37,730.65	37,730.65
4.04.01.04	Indian quadricon bridge	m	33,721.42	33,056.17	30,702.38	30,702.38
4.04.01.05	UCB and Chinese truss bridge	m	50,155.15	49,165.87	45,664.99	45,664.99
4.04.02	PSB-LD: Labour charge for delaunching of PSB with all necessary arrangements including necessary decking by arrangement of all necessary tools and equipment, all incidental charges, etc. all complete as per direction of the E-I-C.					
4.04.02.01	Single Bailey Bridge or Acrow panel bridge.	m	6,137.73	6,016.50	5,588.24	5,588.24
4.04.02.02	Double single Bailey Bridge or Acrow panel bridge.	m	7,367.29	7,221.77	6,707.71	6,707.71
4.04.02.03	Calender Hamilton truss bridge.	m	30,325.32	29,726.27	27,610.38	27,610.38
4.04.02.04	Indian quadricon bridge	m	24,439.39	23,956.63	22,251.45	22,251.45
4.04.02.05	UCB and Chinese truss bridge	m	36,152.56	35,438.48	32,915.91	32,915.91
4.04.05	IB: Elements of Iron bridge as per design, drawing, specification and direction of Engineer-in-charge.					
4.04.05.01	IB-SCIS: Supplying CI Shoe of specified diameter including fitting, fixing etc. all complete as per direction of the E-I-C.					
4.04.05.01.01	IB-SCIS_300: For 300mm diameter, Weight of each shoe should be at least 45 kg	each	4,855.28	4,852.13	4,839.51	4,839.51
4.04.05.01.02	IB-SCIS_450: For 450mm diameter, Weight of each shoe should be at least 70 kg	each	7,477.13	7,473.60	7,459.47	7,459.47
4.04.05.01.03	IB-SCIS_600: For 600mm diameter, Weight of each shoe should be at least 90 kg	each	9,571.83	9,568.05	9,552.92	9,552.92

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1	2	3	4	5	6	7
4.04.05.01.04	IB-SCIS_750: For 750mm diameter, Weight of each shoe should be at least 135 kg	each	14,357.75	14,352.08	14,329.38	14,329.38
4.04.05.02	IB-SCIC: Supplying CI Cap of standard size to fit on single/ double E.I. Rail, with necessary fittings etc. all complete as per direction of the E-I-C.					
4.04.05.02.01	IB-SCIC_SH: CI Cap (Single Headed)	each	2,443.40	2,440.25	2,427.64	2,427.64
4.04.05.02.02	IB-SCIC_DH: CI Cap (Double Headed)	each	2,764.99	2,760.57	2,742.92	2,742.92
4.04.05.03	IB-SEIR: Supplying Double headed/ Flat Footed EI rail of standard size at site to construct iron bridge including necessary fitting, fixing, drilling the hole and priming a coat of red oxide etc. all complete as per direction of E-I-C.	kg	132.70	132.27	131.61	131.61
4.04.05.04	IB-SRSJ: Supplying RS joist of different sizes at site to construct iron bridge including fitting, fixing etc. all complete as per direction of E-I-C.	kg	127.37	127.12	126.74	126.74
4.04.05.05	IB-SMSA: Supplying MS Angle, flat bar of different sizes or sections including fitting, fixing etc. all complete as per direction of the E-I-C.	kg	107.19	106.56	105.62	105.62
4.04.05.06	IB-LE: Labour for erection of EI Rail including hoisting and placing in position etc. all complete as per direction of the E-I-C.	m	586.80	577.34	539.50	539.50
4.04.05.07	IB-LD: Labour for driving EI Rail post with specified diameter CI shoe with all driving arrangements (only under ground portion with shoe will be considered for measurement) etc. all complete as per direction of the E-I-C.					
4.04.05.07.01	IB-LD_300: For 300mm dia CI shoe	m	1,129.48	1,108.94	1,026.80	1,026.80
4.04.05.07.02	IB-LD_450: For 450mm dia CI shoe	m	1,248.50	1,225.80	1,135.00	1,135.00
4.04.05.07.03	IB-LD_600: For 600mm dia CI shoe	m	1,396.24	1,370.85	1,269.31	1,269.31
4.04.05.07.04	IB-LD_750: For 750mm dia CI shoe	m	1,690.68	1,659.94	1,536.98	1,536.98
4.04.05.08	IB-LT: Labour for taking out EI Rail post with specified diameter CI shoe (Portion embedded within earth only will be paid) etc. all complete as per direction of the E-I-C.					
4.04.05.08.01	IB-LT_300: For 300mm dia CI shoe	m	797.65	783.15	725.14	725.14
4.04.05.08.02	IB-LT_450: For 450mm dia CI shoe	m	1,023.08	1,004.48	930.07	930.07
4.04.05.08.03	IB-LT_600: For 600mm dia CI shoe	m	1,248.50	1,225.80	1,135.00	1,135.00
4.04.05.08.04	IB-LT_750: For 750mm dia CI shoe	m	1,517.27	1,489.69	1,379.34	1,379.34
4.04.05.09	IB-LU: Labour for utilizing RS joist/ MS Angle, flat bar of different sizes or section including fitting, fixing, drilling hole etc. all complete as per direction of the E-I-C.	kg	15.13	14.63	13.87	13.87
4.04.05.10	IB-DES: Dismantling of existing/ damaged iron bridge structures including RCC deck slab and any type of RCC/brick works as per direction of the E-I-C. Measurement shall be taken only in lengths of bridge as actually dismantled.					
4.04.05.10.01	IB-DES_UZR4.20I: For Light Traffic Bridge of carriageway width 4.20m on Upazila Road, including cost of taken out EI Rail of driving	m	11,741.53	11,534.46	10,780.01	10,780.01
4.04.05.10.02	IB-DES_UNR3.66I: For Jeepable Bridge of carriageway width 3.66m on Union Road, including cost of taken out EI Rail of driving	m	9,713.14	9,542.84	8,918.85	8,918.85
4.04.05.10.03	IB-DES_VR3.05I: For Non-motorized Bridge of carriageway width 3.05m on Village Road, including cost of taken out EI Rail of driving	m	8,184.85	8,039.51	7,497.02	7,497.02
4.04.05.10.04	IB-DES_VR2.44I: For Pedestrian Bridge of carriageway width 2.44m on Village Road, including cost of taken out EI Rail of driving	m	6,791.90	6,665.14	6,202.24	6,202.24
4.04.05.10.05	IB-DES_UZR4.20E: For Light Traffic Bridge of carriageway width 4.20m on Upazila Road, excluding cost of taken out EI Rail of driving	m	5,653.01	5,556.64	5,244.99	5,244.99

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1	2	3	4	5	6	7
4.04.05.10.06	IB-DES_UNR3.66E: For Jeepable Bridge of carriageway width 3.66m on Union Road, excluding cost of taken out EI Rail of driving	m	4,540.18	4,463.94	4,216.17	4,216.17
4.04.05.10.07	IB-DES_VR3.05E: For Non-motorized Bridge of carriageway width 3.05m on Village Road, excluding cost of taken out EI Rail of driving	m	3,011.90	2,960.62	2,794.34	2,794.34
4.04.05.10.08	IB-DES_VR2.44E: For Pedestrian Bridge of carriageway width 2.44m on Village Road, excluding cost of taken out EI Rail of driving	m	1,618.94	1,586.24	1,499.56	1,499.56
4.04.05.10.09	IB-DES_UZR4.20: For Light Traffic Bridge of carriageway width 4.20m on Upazila Road, excluding cost of steel frame work and taken out EI Rail of driving	m	4,439.58	4,365.27	4,126.11	4,126.11
4.04.05.10.10	IB-DES_UNR3.66: For Jeepable Bridge of carriageway width 3.66m on Union Road, excluding cost of steel frame work and taken out EI Rail of driving	m	3,641.96	3,582.03	3,387.93	3,387.93
4.04.05.10.11	IB-DES_VR3.05: For Non-motorized Bridge of carriageway width 3.05m on Village Road, excluding cost of steel frame work and taken out EI Rail of driving	m	2,240.68	2,203.42	2,083.22	2,083.22
4.04.05.10.12	IB-DES_VR2.44: For Pedestrian Bridge of carriageway width 2.44m on Village Road, excluding cost of steel frame work and taken out EI Rail of driving	m	1,334.23	1,311.47	1,238.73	1,238.73
4.04.05.11	IB-W: Providing and making specified welding conforming to AWS D1.4 by electric arc welding for construction of Iron Bridge with highly oxidized electrodes making the points prominent and accepted by the Engineer-in-charge. The cost of all materials, labour, tools and plants, electricity and all equipment is included in this unit rate. Welding shall be carried out under the continuous direction of an experienced and competent superisor. [Direct type Lap-welded splice over one side of contact by welding of minimum length not less than 10 times of section thickness unless otherwise mentioned in the working drawing]	m	263.29	263.29	259.35	259.35
4.04.06	SSW_SF: Supply and fabrication of structural steel work in accordance with relavant ASTM/ AASHTO codes comprising of Main Girders, Cross Girders, Connecting plates, stringer, stiffening plates etc. intended for use in bridges and delivery at bridge site including straightening, descaling, degreasing, cutting to size and shape, drilling, welding conforming to AWS D 1.5M, grinding, removing rust with blast cleaning, trial assembling at workshop, one priming coat of shop paint with red oxide paint conforming to ASTM D83 with all labour, material, paints, consumables, stacking in protected condition, cost of testing at national accredited test authority/ BUET etc. as per approved drawing, specification and direction of E-I-C.					
4.04.06.01	Grade 345: Box & I Sections in accordance with ASTM A 709M/ AASHTO M 270 of Grade 345, 345S, 345W or HPS 345W	kg	183.91	183.91	183.91	183.91
4.04.06.02	Grade 485W: Decking Sheet in accordance with ASTM A 709M/ AASHTO M 270 of Grade 485W or HPS 345W	kg	186.39	186.39	186.39	186.39
4.04.06.03	Grade 250: Structural Steel sections such as columns, beams, bracings etc. in accordance with ASTM A 36M of Grade 250					
4.04.06.03.01	Grade 250BU: Built-up Sections	kg	130.94	130.94	130.94	130.94
4.04.06.03.02	Grade 250HR: Hot-rolled Sections (W, H, I-shape, Channel, Angle, Tube etc.)	kg	148.73	148.73	148.73	148.73
4.04.07	SSW_Bolt: Supply and installation of high-strength structural bolts of variable diameter with nut and washer for structural steel joints intended for use in bridges in accordance with ASTM/ AASHTO code including cost of hot-dip zinc coating on steel bolt conforming to ASTM A 153M/ AASHTO M232 and cost of testing at international/national accredited test authority/ BUET etc. as per approved design, drawing, specification and direction of E-I-C.	kg				
4.04.07.01	SSW_Bolt_325: Structural bolts in accordance with ASTM A325M/ AASHTO M 164M Type 1	kg	370.39	370.39	370.39	370.39

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.04.07.02	SSW_Bolt_490: Structural bolts in accordance with ASTM A490 Type 1	kg	521.72	521.72	521.72	521.72
4.04.08	SSW_SS: Supply and fabrication of Stud shear connectors of varying diameter conforming to ASTM A 108M including cost of testing at international/national accredited test authority/ BUET etc. as per approved design, drawing, specification and direction of E-I-C. [PWD 10.16]	kg	173.69	173.69	173.69	173.69
4.04.09	SSW_AE: Assembling and erection of fabricated steel structure to proper line, level and camber as per approved drawings complete in all respect including transportation and handling supply of all fasterners. Painting of all exposed surface of steel work after erection with one coat of red oxide confirming to ASTM D 83 and two coats Aluminium paint confirming to ASTM A 463, grouting of anchor bolts in position, including all labour, consumables, materials, machinery, tools and tackles, erection cum dismandling of staging, scaffolding & falsework etc. complete as per specification and as directed by the E-I-C. A full proof method statement of erection programe at site has to be submitted and get approved before starting the erection program.	kg	21.86	21.86	21.86	21.86
4.04.10	TSB: Transportation of Iron/ Bailey/ Steel Bridge Superstructure (Complete Sets) from LGED's Central/ Regional/ District Stack-yard or Source to the bridge construction site and stacking at proper place including loading, unloading, local handling as per design, drawing, specifications and direction of E-I-C.					
4.04.10.01	TSB_50: Within 50km of Stack-yard/ source to site	MT	2,174.05	2,158.80	2,110.94	2,110.94
4.04.10.02	TSB_50+: Additional charge Beyond 50km of Stack-yard/ source to site	MT-Km	9.51	9.51	9.51	9.51
Section-05: Excavation, Dewatering, Artificial Island & Cofferdam						
4.05.01	Earth work in excavation of foundation of structures by mechanical (Hydraulic excavator - Long Boom)/ manual means in all sorts of soil up to specified depth in accordance with requirements of lines, grades, cross sections and elevation as shown in the drawing including setting out, removal of stumps, logs, boulders and other deleterious materials, providing necessary tools and plants, construction of shoring and bracing, cleaning the excavated materials to a safe distance out of the site premises, cut to a firm surface including pumping/ bailing out water, removal of spoils to a safe distance, dressing of sides and bottom and backfilling of trenches up to original level with approved material etc. all complete as per approval of E-I-C. Contractor shall get acquainted with site conditions, nature of soil and adopt suitable adequate dewatering system as deemed fit for the nature of soil and prevailing water table to get the surface reasonably dry for laying PCC at the time of execution so that execution will not be hampered or delayed. Back-filled materials shall be compacted to a density comparable with the adjacent undisturbed material.					
4.05.01.01	Earth work in Ordinary Soil by Manual Means for an initial lead up to 30m					
4.05.01.01.01	For depth up to 3m	cum	230.15	226.37	209.66	209.66
4.05.01.01.02	For depth 3m to 6m	cum	264.83	260.42	241.19	241.19
4.05.01.01.03	For depth above 6m	cum	438.24	430.67	398.83	398.83
4.05.01.02	Earth work in Ordinary Soil by Mechanical Means (Hydaulic Excavator) for an initial lead of 30m					
4.05.01.02.01	For depth up to 3m	cum	124.87	124.48	122.95	122.95
4.05.01.02.02	For depth 3m to 6m	cum	139.63	139.17	137.32	137.32
4.05.01.02.03	For depth above 6m	cum	158.23	157.67	155.43	155.43

Item Code	Brief Description of Item	Unit	Rate			
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1	2	3	4	5	6	7
4.05.01.03	Earth work in Rocky, gravelly, slushy or organic type Soil by Manual Means for an initial lead of 30m					
4.05.01.03.01	For depth up to 3m	cum	299.51	294.47	272.72	272.72
4.05.01.03.02	For depth 3m to 6m	cum	403.56	396.62	367.30	367.30
4.05.01.03.03	For depth above 6m	cum	472.92	464.72	430.35	430.35
4.05.01.04	Earth work Rocky, gravelly, slushy or organic type Soil by Mechanical Means (Hydaulic Excavator) for an initial lead of 30m					
4.05.01.04.01	For depth up to 3m	cum	137.34	136.92	135.24	135.24
4.05.01.04.02	For depth 3m to 6m	cum	154.87	154.32	152.12	152.12
4.05.01.04.03	For depth above 6m	cum	176.55	175.84	173.01	173.01
4.05.02	Disposing surplus excavated soils of all types outside the site premises up to a lead of specified distance including cost of labour, cost of equipment and machinery, loading and unloading at both ends, transportation, all other incidental charges at all leads and lifts etc. complete as per approval of the E-I-C. The surplus excavated material must be dumped in an unobjectionable place outside the site premises with minimum traffic disruption and the procuring entity will not be responsible for any irregularities by the party regarding disposing of the earth.					
4.05.02.01	Lead up to 500m	cum	66.70	66.56	65.62	65.62
4.05.02.02	Lead 500m to 1km	cum	73.74	73.59	72.66	72.66
4.05.02.03	Lead 1km to 2km	cum	87.81	87.67	86.73	86.73
4.05.02.04	Lead 2km to 3km	cum	101.89	101.74	100.81	100.81
4.05.02.05	Lead 3km to 4km	cum	115.96	115.82	114.88	114.88
4.05.02.06	Lead 4km to 5km	cum	130.03	129.89	128.95	128.95
4.05.02.07	Lead above 5km	cum	144.11	143.96	143.03	143.03
4.05.03	P&B: Pumping and bailing out water from the interior of any foundation enclosure of work site with all leads and lifts including supply, operation and maintenance of requisite number of water pumps, arrangements for protection of ring bundh and side slopes of foundation pit against erosion or washout etc. It should be carried out in such a manner as to preclude the possibility of the movement of water through or alongside any concrete being placed, etc. all complete as per direction of E-I-C. [PWD 2.2]	hour	487.17	487.17	470.72	470.72
4.05.04	RB: Making arrangement of artificial ring bundh for construction of pile/ pile cap in river/channel having standing water not greater than 3 meter with supplying and driving sal-bullah (150mm to 200mm dia) up to required depth, tarja, drum sheet, soil filled Geobag and all other necessary iron fitting, earth arranged and carried by contractor by any means including cost of all materials required for the work and maintaining the same till the completion of the main component of the structure for which the ring is made, etc. all complete as per direction of the Engineer-in-Charge. Contractor shall submit the design calculations and methodology which must be compatible with the weather conditions, waves, currents, construction equipment, construction method, internal permanent structures and ground condition. Contractor shall take necessary safety measure for the construction of earthen ring/cross bundh and responsible for all obligations. The temporary arrangement is to be completely removed on completion of the main component of the structure. Note: Additional payment for pumping & bailing out of water will not be given					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.05.04.01	RB_2: For 3m wide & 2m high earthen ring bundh constructed by driving 2/3rd part of 7m long wooden bullah at 500mm c/c in the outer side and driving bullah of same length at 750mm c/c in the inner side, placing tarza & dram sheet including lapping of min. 150mm, polythene sheet, soil filled geobag in the outer side, wooden bracing with 50mm x 50mm at 600mm c/c vertically, cross bracing with 12 BWG GI wire @ 1500mm c/c, bailing out of standing water from inner portion of ring bundh etc. [For depth of standing water: Up to 2m]	m	34,322.05	34,098.78	32,969.70	32,969.70
4.05.04.02	RB_2+: For 3m wide & 3m high earthen ring bundh constructed by driving 2/3rd part of 9m long wooden bullah at 500mm c/c in the outer side and driving same length bullah at 750mm c/c in the inner side, placing tarza & dram sheet including lapping of min. 150mm, polythene sheet, soil filled geobag in the outer side, wooden bracing with 50mm x 50mm at 600mm c/c vertically, cross bracing with 12 BWG GI wire @ 1500mm c/c, bailing out of standing water from inner portion of ring bundh etc. [For Depth of standing water: Above 2m and up to 3m]	m	44,969.70	44,678.44	43,216.69	43,216.69
4.05.05	AI: Making artificial island in river/channel having standing water suitable for well sinking/ cast-in-situ bored pile with supplying and driving sal-bullah (150mm to 200mm dia) and bamboo posts (75mm to 100mm dia) up to required depth, tarja walling and all other necessary iron fitting, earth arranged and carried by contractor by any means including cost of all materials required for the work and maintaining the same till the completion of the main component of the structure for which the island is made, etc. all complete as per direction of the Engineer-in-Charge. The structures are to be completely removed on completion of the main component of the structure.					
4.05.05.01	Beyond 900mm and up to 1500mm of standing water					
4.05.05.01.01	For 3000mm x 6000mm wells	each	170,347.11	168,909.44	162,074.22	162,074.22
4.05.05.01.02	For 3000mm x 7200mm wells	each	187,155.19	185,578.81	178,080.24	178,080.24
4.05.05.01.03	For 3600mm x 7200mm wells	each	189,072.08	187,483.08	179,918.31	179,918.31
4.05.05.01.04	For 3000mm x 8100mm wells	each	198,341.25	196,676.58	188,747.35	188,747.35
4.05.05.01.05	For 3600mm x 8100mm wells	each	202,443.64	200,741.14	192,637.24	192,637.24
4.05.05.01.06	For 3300mm x 8400mm wells	each	204,350.44	202,635.33	194,465.86	194,465.86
4.05.05.01.07	For 3900mm x 7800mm wells	each	205,760.37	204,032.64	195,804.53	195,804.53
4.05.05.01.08	For 4800mm x 7800mm wells	each	207,667.17	205,926.83	197,633.14	197,633.14
4.05.05.02	Extra for each additional 300mm above 1500mm and upto 3000mm depth of water					
4.05.05.02.01	For 3000mm x 6000mm wells	each	183,974.87	182,422.19	175,040.15	175,040.15
4.05.05.02.02	For 3000mm x 7200mm wells	each	213,356.92	211,559.84	203,011.47	203,011.47
4.05.05.02.03	For 3600mm x 7200mm wells	each	217,432.90	215,605.55	206,906.05	206,906.05
4.05.05.02.04	For 3000mm x 8100mm wells	each	228,092.44	226,178.07	217,059.45	217,059.45
4.05.05.02.05	For 3600mm x 8100mm wells	each	232,810.19	230,852.32	221,532.83	221,532.83
4.05.05.02.06	For 3300mm x 8400mm wells	each	235,003.01	233,030.63	223,635.73	223,635.73
4.05.05.02.07	For 3900mm x 7800mm wells	each	236,624.42	234,637.54	225,175.20	225,175.20
4.05.05.02.08	For 4800mm x 7800mm wells	each	240,893.91	238,875.13	229,254.44	229,254.44
4.05.05.03	Extra for each additional 300mm above 3000mm and up to 4500mm depth of water					
4.05.05.03.01	For 3000mm x 6000mm wells	each	197,602.64	195,934.95	188,006.09	188,006.09

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1	2	3	4	5	6	7
4.05.05.03.02	For 3000mm x 7200mm wells	each	218,971.58	217,127.20	208,353.88	208,353.88
4.05.05.03.03	For 3600mm x 7200mm wells	each	223,105.06	221,230.04	212,303.60	212,303.60
4.05.05.03.04	For 3000mm x 8100mm wells	each	234,042.68	232,078.37	222,721.87	222,721.87
4.05.05.03.05	For 3600mm x 8100mm wells	each	240,907.94	238,881.96	229,238.32	229,238.32
4.05.06	Making temporary artificial island in river/ channel required for cast-in-situ bored pile with supplying and driving bamboo posts of 75 to 100mm diameter at specified spacing up to required depth with nails, driving additional gazari/ shalbullah posts of 150 to 175mm diameter at specified spacing up to required depth & half split bullah bracing at top level for longer depth, dram sheet walling & internal cross tie by re-bar with specified diameter & spacing and all other necessary iron fitting, earth arrangement and carried by contractor by any means including cost of all materials required for the work and maintaining the same till the completion of the work for which the island is made. The structures are to be completely removed on completion of the work and the cost is inclusive of this element also.					
4.05.06.01	For depth up to 2.0m: Spacing of bamboo posts: 250mm c/c, internal cross ties: 12mm dia re-bar @ 2m c/c					
4.05.06.01.01	Size of Island: 11m x 15m	each	186,806.72	185,819.52	181,757.07	181,757.07
4.05.06.01.02	Size of Island: 11m x 18m	each	209,223.53	208,117.87	203,567.92	203,567.92
4.05.06.01.03	Size of Island: 11m x 20m	each	226,036.13	224,841.62	219,926.06	219,926.06
4.05.06.02	For depth above 2.0m: Spacing of bamboo post: close hole, spacing of Gazari/ Shalbullah posts: 1m c/c, internal cross ties: 16mm dia. re-bar at alternate bullah post.					
4.05.06.02.01	Size of Island: 11m x 15m	each	592,319.47	590,002.81	577,749.20	577,749.20
4.05.06.02.02	Size of Island: 11m x 18m	each	663,397.81	660,803.15	647,079.11	647,079.11
4.05.06.02.03	Size of Island: 11m x 20m	each	716,706.56	713,903.40	699,076.53	699,076.53
4.05.07	Making arrangement of barge of required size & capacity for construction of cast-in-site bored piles / pre-cast pile at pier locations in river/channel having water depth more than 3.0m. including mobilization and demobilization, setting of piling rigs, fuel, lubricants, other incidental charges etc. all complete as per direction of the engineer.					
4.05.07.01	Size: 26.0m x 8.5m, Loaded Draft: 1.8m/1.2m, Carrying capacity: 150 MT	each/month	696,133.33	696,133.33	696,133.33	696,133.33
4.05.07.02	Size: 30.0m x 9.0m, Loaded Draft: 1.8m/1.2m, Carrying capacity: 200 MT	each/month	696,133.33	696,133.33	696,133.33	696,133.33
4.05.07.03	Size: 38.0m x 9.0m, Loaded Draft: 2.0m/1.37m, Carrying capacity: 300 MT	each/month	783,150.00	783,150.00	783,150.00	783,150.00
4.05.07.04	Size: 36.5m x 12.0m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 400 MT	each/month	957,183.33	957,183.33	957,183.33	957,183.33
4.05.07.05	Size: 38.0m x 13.5m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 500 MT	each/month	957,183.33	957,183.33	957,183.33	957,183.33

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1	2	3	4	5	6	7
4.05.08	Making arrangement of steel staging for construction of Cast-in-situ pile by driving of double headed EI Rail post up to 4.00 m to 6m with 600/750mm dia CI Shoe (screw) @ 1.00m c/c in transverse dimension and 4.00m c/c in longitudinal direction povided with double headed CI cap and RS Joist of required size in both direction. The double headed EI vertical post shall be cross-braced with 75mm x 75mm MS angle. The RS joist frame shall be covered with MS plate (6mm thick) to make a smooth platform. The work shall be completed including hiring charge of all material, fitting, fixing with nut bolt etc., all labour cost and maintaining the same till the completion of the work for which it is made. The structure is to be completely removed on completion of the work and the cost is inclusive of the element also. All work shall be done as per supplied drawing and direction of the E-I-C. Contractor shall take necessary safety measures for the stage and shall be responsible for any accident. Note: This item shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.					
4.05.08.01	For 5.00m to 9.00m depth of water	sqm	16,543.46	16,168.10	15,154.89	15,154.89
4.05.08.02	For 9.00m to 12.00m depth of water	sqm	19,079.62	18,642.95	17,473.37	17,473.37
4.05.08.03	For 12.00m to 15.00m depth of water	sqm	20,252.34	19,791.17	18,542.50	18,542.50
4.05.08.04	For 15.00m to 18.00m depth of water	sqm	21,441.17	20,955.16	19,626.31	19,626.31
4.05.08.05	For 18.00m & Above depth of water	sqm	22,670.89	22,159.24	20,747.31	20,747.31
4.05.09	Construction of steel cofferdam with bottom frame with a required number of hole, side frame with necessary nos. of bracings at different level and top platform with provision of adequate access, light and ventilation including cost of MS plate, MS angle, joists, fabrication, welding, grinding, shifting the cofferdam from bank to pier location, lowering of cofferdam to it's design level, bottom plugging of cofferdam by 30MPa Tremie Concrete (underwater concrete) through a tube usually 200 to 250mm pipe, dewater the interior area, breaking head of hardened cast-in-situ bored pile to the cut-off level and exposing pile reinforcement for embedment in pile cap, erection and removal of cofferdam by unifloat (pontoon), monitoring the behavior of the cofferdam and surrounding area, tower crane, generator, gas cutter set etc. all complete in all respect as per direction of Design Unit & concern Engineer-in-Charge. Contractor shall submit the design calculations and methodology which must be compatible with the weather conditions, waves, currents, construction equipment, construction method, internal permanent structures and ground condition. Contractor shall take necessary safety measure for the construction of cofferdam and responsible for all obligations. Note: Measurement will be based on the actual pile cap area. This item shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.					
4.05.09.01	For depth up to 5m from LWL	sqm	133,324.08	133,355.06	132,922.82	133,036.15
4.05.09.02	For depth 5m to 6m from LWL	sqm	146,656.49	146,690.57	146,215.10	146,339.76
4.05.09.03	For depth 6m to 7m from LWL	sqm	159,988.90	160,026.07	159,507.38	159,643.38
4.05.09.04	For depth 7m to 8m from LWL	sqm	173,321.31	173,361.58	172,799.67	172,946.99
4.05.09.05	For depth 8m to 9m from LWL	sqm	186,653.72	186,697.09	186,091.95	186,250.61
4.05.09.06	For depth 9m to 10m from LWL	sqm	199,986.13	200,032.59	199,384.23	199,554.22
4.05.09.07	For depth above 10m from LWL	sqm	213,318.53	213,368.10	212,676.51	212,857.84

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1	2	3	4	5	6	7
4.05.10	Making arrangement of dewatering system to provide temporary reductions in ground water level for construction of pile caps/ foundation of any other structure which extend to below ground water level including installation of a wellpoint system consists of a closely spaced series of small-diameter shallow wells connected to a common headermain and pumped with a high-efficiency vacuum dewatering pump or installation and operation of series of submersible pumps so as to lower the water table to provide stable and dry conditions to facilitate excavation. For drawdowns in excess of 6m further stages of wellpoints are required, installed at successively lower levels as excavation proceeds. Dewatering system may be used around open cut excavations or in conjunction with shoring or retaining wall used to support the excavation. The choise of pumping system used for dewatering or groundwater systems depends on the amount of drawdown required and the ground conditions. Contractor shall submit the design calculations and methodology which must be compatible with the sub-soil & weather condition, construction equipment, construction method, ground water level etc. Contractor shall take necessary safety measure for making arrangement of dewatering system and responsible for all obligations. Note: Measurement will be based on the actual pile cap/ foundation area. This item shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.					
4.05.10.01	Dewatering system for depth up to 3m	sqm	9,965.65	9,947.44	9,891.21	9,891.21
4.05.10.02	Dewatering system for depth 3m to 6m	sqm	31,036.56	30,998.60	30,886.31	30,886.31
4.05.10.03	Dewatering system for depth 6m to 9m	sqm	77,136.76	77,059.12	76,835.61	76,835.61
4.05.10.04	Dewatering system for depth above 9m	sqm	96,420.95	96,323.90	96,044.51	96,044.51
4.05.11	SPW: Shore protection work during excavation in foundation trenches & construction of the same to protect loose soil by driving U-type hot rolled steed sheet pile of 600mm width, thickness 7.5mm, and using bracing type I-joist of nominal size 200x150 mm, sectional dimension 6mm in horizontal, long and short direction etc. all complete including maintennace upto completion of the work or as per direction of E-I-C (Taking out of sheet pile and removing of shore protection work to clean after completion of foundation work e.g. pile cap) Note: Measurement will be based on the actual pile cap area. This item shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.					
4.05.11.01	SPW_3+: depth from 3 m to 4 m from LWL	sqm	31,191.77	31,035.31	30,418.73	30,418.73
4.05.11.02	SPW_4+: depth from 4 m to 5 m from LWL	sqm	34,672.12	34,492.12	33,803.24	33,803.24
Section-06: Sand Filling, Brick Soling, Plain Cement Concrete, Brick Work & Plaster						
4.06.01	Sand filling on the prepared foundation bed with sand of specified FM in layers not more than 150mm thick including necessary carriage, leveling, watering and ramming to achieve minimum dry density (MDD) of 95% STD compaction with optimum moisture content (OMC) by ramming each layer up to finished level as per direction of E-I-C.					
4.06.01.01	Sand of Minimum FM 0.8	cum	1,100.95	1,101.71	1,050.25	1,050.25
4.06.01.02	Sand of Minimum FM 1.2	cum	1,223.53	1,227.31	1,175.86	1,175.86
4.06.01.03	Sand of Minimum FM 1.8	cum	2,237.46	2,262.43	2,209.47	2,209.47
4.06.01.04	Sand of Minimum FM 2.5	cum	3,083.42	2,982.78	3,005.48	2,973.70

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1	2	3	4	5	6	7
4.06.02	Single layer brick flat soling with 1st class or picked kiln burnt bricks in foundation, filling the interstices tightly with sand of minimum FM 0.50, watering, leveling, dressing, etc. all complete as per instruction of the E-I-C.	sqm	607.83	606.66	580.40	580.40
4.06.03	PCC-10: Plain cement concrete work in foundation with minimum compressive strength of 10 MPa at 28 days (sugessted mix proportion 1:3:6) on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded 1st class/ picked brick chips (LAA value not exceeding 40) comforming to ASTM C 33 including breaking bricks into chips, shuttering, mixing by concrete mixer machine, casting, laying compacting and curing for the requisite period etc. all complete as per direction of the E-I-C. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost.	cum	10,854.41	10,815.25	10,445.73	10,445.73
4.06.04	PCC-17: Plain cement concrete work in foundation with minimum compressive strength of 17 MPa at 28 days (sugessted mix proportion 1:2:4 & maximum w/c ratio 0.45) on standard cylinder as per standard practice of Code AASHTO/ ASTM/ and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded 1st class/ picked brick chips (LAA value not exceeding 40) comforming to ASTM C 33 including breaking bricks into chips, shuttering, mixing by concrete mixer machine, casting, laying compacting and curing for the requisite period etc. all complete as per direction of the E-I-C. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost.	cum	11,808.94	11,769.62	11,409.67	11,409.67
4.06.05	Brick work with 1st class brick in specified cement mortar in foundation with sand of minimum FM 1.20 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, curing at least for 7 days etc. all complete as per design, specification & direction of the E-I-C.					
4.06.05.01	Cement mortar (1:3)	cum	10,756.09	10,728.10	10,336.34	10,336.34
4.06.05.02	Cement mortar (1:4)	cum	10,215.38	10,187.00	9,797.07	9,797.07
4.06.05.03	Cement mortar (1:6)	cum	9,723.87	9,695.38	9,305.98	9,305.98
4.06.06	Minimum 6mm thick cement plaster including neat cement finishing over concrete faces with sand of minimum FM 1.20 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N including washing of sand, cleaning junctiongs of concrete, grouting, dabbing, doing independent double-legged scaffolding, finishing the edges and corners, cleaning of surfaces and curing for requisite period etc. all complete at all leads & lifts as per drawings, specification & direction of the E-I-C.					
4.06.06.01	Cement mortar (1:3)	sqm	303.52	301.49	284.27	284.27
4.06.06.02	Cement mortar (1:4)	sqm	290.64	288.60	271.43	271.43

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-07: Pile Work & Pile Test						
4.07.01	BCIS: Boring for cast-in-situ piles up to the required depth and specified diameter with driving temporary steel casing (shall be 8mm thick with necessary stiffener bands and sharp edge at bottom and provided up to non-collapsible strata from the existing ground level but not less then 4.0 m) in all types of soils including min. 2-chamber slurry tank, drilling with bentonite circulation (Dry Bentonite powder of liquid limit of minimum 350 shall be mixed with water @ minimum 4% by weight to make the fresh drilling fluid of viscosity between 32-50 seconds and density less than 1.1gm/cc), maintaining fluid level inside casing at all time at least 2 m higher than outside the casings, washing bore hole by air lift cleanup method with fresh bentonite slurry until the slurry from bore hole bottom have density less than 1.15gm/cc and sand content is less than 4%, make the bore hole ready for concreting including disposal/removal of all bored material, hire charge of mechanical winch machine/ skid mounted mechanical table drive rotary/ hydraulic rotary boring equipment, derrick, trimie pipe, cost of fuel, lubricant, mobilization, demobilization, spares, insurance coverage, water, electricity and other charges all complete as per design, drawing, specification and direction of E-I-C. Contractor shall submit the methodology of cast-in-situ pile work including information on boring equipment, sequence of boring & casting, quality control, disposal of spoils, test result of materials to the E-I-C for approval before commencing any boring operation. Boring and excavation for a pile shall not commence until 24 hours after completion of any pile within radius of 6 meters c/c. Cost of collecting, conveying, loading, transportation of spoils/mud accumulated during boring of cast-in-situ pile with all lifts and lead is included in this unit rate. The spoils must be dumped in an unobjectionable place outside the site premises with minimum traffic disruption and the procuring entity will not be responsible for any irregularities by the party regarding dumping of the spoils. Note: Boring method shall be selected as per instruction given in the drawing.	m				
4.07.01.01	BCIS_PM: Boring by PERCUSSION METHOD using Direct Mud Circulation (DMC) or Bailer and Chisel technique by tripod and mechanical winch machine. Tubewell boring machine shall not be used.					
4.07.01.01.01	450mm diameter	m	1,675.61	1,667.29	1,640.93	1,640.93
4.07.01.01.02	500mm diameter	m	2,047.98	2,035.84	1,995.96	1,995.96
4.07.01.01.03	600mm diameter	m	2,405.64	2,392.46	2,350.15	2,350.15
4.07.01.01.04	700mm diameter	m	2,771.34	2,757.47	2,713.25	2,713.25
4.07.01.01.05	800mm diameter	m	3,053.40	3,039.53	2,995.14	2,995.14
4.07.01.02	BCIS_SMMTD: Boring by Skid Mounted Mechanical Table Drive Rotary Boring/ Spindle Type Rotary Drilling Machine. Tube well boring machine/ Bailer and chisel technique by tripod and mechanical winch machine shall not be used.					
4.07.01.02.01	600mm diameter	m	2,628.22	2,624.40	2,612.13	2,612.13
4.07.01.02.02	700mm diameter	m	3,179.50	3,175.06	3,160.76	3,160.76
4.07.01.02.03	800mm diameter	m	3,758.86	3,753.77	3,737.41	3,737.41
4.07.01.02.04	900mm diameter	m	4,730.15	4,723.49	4,702.27	4,702.27
4.07.01.02.05	1000mm diameter	m	6,188.19	6,179.17	6,150.67	6,150.67
4.07.01.02.06	1200mm diameter	m	7,541.16	7,529.60	7,493.53	7,493.53
4.07.01.02.07	1500mm diameter	m	9,598.36	9,584.48	9,542.48	9,542.48

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.01.03	BCIS_HRM: Boring by HYDRAULIC ROTARY METHOD using Crawler mounted, telescopic boom hydraulic piling rig. Tube well boring machine/ Bailer and chisel technique by tripod and mechanical winch machine/ Skid Mounted Mechanical Table Drive Rotary Boring/ Spindle Type Rotary Drilling Machine shall not be used.					
4.07.01.03.01	600mm diameter	m	3,644.22	3,640.40	3,628.13	3,628.13
4.07.01.03.02	800mm diameter	m	4,860.17	4,855.09	4,838.72	4,838.72
4.07.01.03.03	900mm diameter	m	6,041.35	6,034.69	6,013.47	6,013.47
4.07.01.03.04	1000mm diameter	m	7,815.40	7,806.38	7,777.88	7,777.88
4.07.01.03.05	1200mm diameter	m	9,295.72	9,284.16	9,248.09	9,248.09
4.07.01.03.06	1500mm diameter	m	11,617.04	11,603.17	11,561.17	11,561.17
4.07.01.03.07	1800mm diameter	m	14,167.91	14,150.95	14,100.24	14,100.24
4.07.01.03.08	2000mm diameter	m	15,604.08	15,584.04	15,524.70	15,524.70
4.07.01.03.09	2500mm diameter	m	17,658.88	17,635.76	17,567.55	17,567.55
4.07.02	DCIS: Driven Cast-in-Situ vertical R.C.C. pile of specified diameter and length (length to be measured from the bottom of pile cap to the bottom of shoe), to carry safe working load not less than specified, including cost shoe & all other materials and labour for casting, hoisting, driving etc. and also including cost of dummy lengths of pile and of hire charges of all instruments as necessary but excluding concrete & reinforcement etc. all complete as per drawing, specification and direction of Engineer-in-Charge.					
4.07.02.01	Pile diameter - 450 mm	m	5,268.83	5,266.31	5,262.27	5,262.27
4.07.02.02	Pile diameter - 500 mm	m	5,806.06	5,803.54	5,799.50	5,799.50
4.07.02.03	Pile diameter - 600 mm	m	6,343.29	6,340.77	6,336.74	6,336.74
4.07.02.04	Pile diameter - 700 mm	m	9,789.81	9,783.94	9,774.55	9,774.55
4.07.02.05	Pile diameter - 800 mm	m	10,984.15	10,976.59	10,964.42	10,964.42
4.07.02.06	Pile diameter - 900 mm	m	12,074.63	12,066.56	12,053.57	12,053.57
4.07.02.07	Pile diameter - 1000 mm	m	14,277.61	14,267.52	14,251.38	14,251.38
4.07.02.08	Pile diameter - 1200 mm	m	15,631.40	15,618.79	15,598.61	15,598.61
4.07.02.09	Pile diameter - 1500 mm	m	17,847.17	17,833.15	17,810.73	17,810.73

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.03	RCC-25SCCM: Reinforced cement concrete work for cast-in-situ pile with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average compressive strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, including breaking chips, screening through proper sieves, placing & maintaining re-bar cage in position, jointing longitudinal bars by welding or re-bar coupling method, placing and removing tripod/ derrick as per requirement, mixing in standard mixture machine with hoper, maintaining allowable slump of 150mm to 200mm, placing a sliding plug or barrier to prevent direct contact between the first charge of concrete in the pipe of the tremie and the water of drilling fluid, pouring the concrete in bore hole with the help of trimie pipe, maintaining the trimie pipe immersed in concrete by at least 1.5m throughout the period of concreting etc. including cost of all materials, labour, equipment and all incidental charges but excluding the cost of reinforcement and its fabrication, welding, coupling and placing etc. all complete as per design, drawing, specifications and direction of the E-I-C. The contractor shall maintain a continuous record of the volume of concrete used and the level of the concrete in the pipe. Any deviations from the theoretical, or expected, volume/ level relationship shall be immediately reported to the E-I-C. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. [Using Concrete Mixture Machine and retail rate of Cement]	cum	16,920.25	16,995.74	15,942.40	16,218.57

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.04	RCC-25SCBP: Reinforced cement concrete work for cast-in-situ pile with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average compressive strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A, F or G under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, including breaking chips, screening through proper sieves, placing & maintaining re-bar cage in position, jointing longitudinal bars by welding or re-bar coupling method, placing and removing tripod/ derrick as per requirement, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 150mm to 200mm, placing a sliding plug or barrier to prevent direct contact between the first charge of concrete in the pipe of the tremie and the water of drilling fluid, pouring the concrete in bore hole with the help of trimie pipe, maintaining the trimie pipe immersed in concrete by at least 1.5m throughout the period of concreting etc. including cost of all materials, labour, equipment and all incidental charges but excluding the cost of reinforcement and its fabrication, welding, coupling and placing etc. all complete as per design, drawing, specifications and direction of the E-I-C. The contractor shall maintain a continuous record of the volume of concrete used and the level of the concrete in the pipe. Any deviations from the theoretical, or expected, volume/ level relationship shall be immediately reported to the E-I-C. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,019.12	17,094.61	16,041.27	16,317.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.05	RCC-30SCBP: Reinforced cement concrete work for cast-in-situ pile with minimum cement content and maximum water cement ratio as specified by the laboratory having minimum required average compressive strength, f'cr = 38.5 MPa and satisfying a specified compressive strength, f'c = 30 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N / ASTM C150 Type-1, high range water reducing admixture of complying type A, F or G under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33 including breaking chips, screening through proper sieves, placing & maintaining re-bar cage in position, jointing longitudinal bars by welding or re-bar coupling method, placing and removing tripod/ derrick as per requirement, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 150mm to 200mm, placing a sliding plug or barrier to prevent direct contact between the first charge of concrete in the pipe of the tremie and the water of drilling fluid, pouring the concrete in bore hole with the help of trimie pipe, maintaining the trimie pipe immersed in concrete by at least 1.5m throughout the period of concreting etc. including cost of all materials, labour, equipment and all incidental charges but excluding the cost of reinforcement and its fabrication, welding, coupling and placing etc. all complete as per design, drawing, specifications and direction of the E-I-C. The contractor shall maintain a continuous record of the volume of concrete used and the level of the concrete in the pipe. Any deviations from the theoretical, or expected volume/ level relationship shall be immediately reported to the E-I-C. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. The Mix Design shall have to be approved by the concerned District Quality Control Laboratory or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,915.08	17,990.57	16,937.23	17,213.40
4.07.06	Permanent Casing: Supplying, fabricating and placing in position permanent Steel casing conforming to ASTM A 36/ AASHTO M 183 for RCC bored cast-in-situ piles of specified diameters (internal) to a depth as shown in approved construction drawings including lowering & pitching the fabricated casing in position, driving the casing below bed level through all types of soil/clay/boulders/weathered or fissured or hard rock, fixing the casing in position with necessary lateral bracings (if required) etc. for stability until completion of all deck works, gas cutting, bending, welding at fabrication shop & site, painting with Red Oxide paint, transporting from fabrication shop to site, unloading at site, driving of casing, all sorts of labour, materials, tools, equipment, fuel, taxes etc. all complete as per design, drawing, specification & direction of Engineer-in-charge. Only length of steel casing driven as per drawing will be paid, wastage shall not be paid. All longitudinal and transverse welds shall be made with full penetration butt welds and adjacent segments shall be rotated 90 degree relative to each other so that longitudinal welds on the fabricated casing are staggered. The outside surface of the permanent casing shall receive two coats of anti-corrosion tar type paint which shall be approved by the Engineer-in-charge and it's application shall follow the manufacturer's instructions. If the handling, transportation, driving arrangement require a greater thickness to avoid deformation or buckling of casing, the increase in thickness shall be provided by the contractor at his own expense.					
4.07.06.01	400mm diameter and 6mm thick wall	m	7,666.23	7,665.53	7,662.76	7,662.76
4.07.06.02	500mm diameter and 6mm thick wall	m	10,204.61	10,203.89	10,200.99	10,200.99

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.06.03	600mm diameter and 6mm thick wall	m	12,238.46	12,237.65	12,234.40	12,234.40
4.07.06.04	700mm diameter and 6mm thick wall	m	14,210.84	14,210.02	14,206.78	14,206.78
4.07.06.05	800mm diameter and 8mm thick wall	m	21,533.94	21,533.07	21,529.59	21,529.59
4.07.06.06	900mm diameter and 8mm thick wall	m	24,158.94	24,158.07	24,154.59	24,154.59
4.07.06.07	1000mm diameter and 10mm thick wall	m	33,454.43	33,453.50	33,449.79	33,449.79
4.07.06.08	1200mm diameter and 10mm thick wall	m	38,309.74	38,308.79	38,305.02	38,305.02
4.07.06.09	1500mm diameter and 12mm thick wall	m	55,984.22	55,983.24	55,979.34	55,979.34
4.07.06.10	1800mm diameter and 12mm thick wall	m	67,109.79	67,108.65	67,104.10	67,104.10
4.07.06.11	2000mm diameter and 16mm thick wall	m	99,329.97	99,328.67	99,323.46	99,323.46
4.07.06.12	2500mm diameter and 20mm thick wall	m	154,962.99	154,961.53	154,955.67	154,955.67
4.07.06.13	Any other diameter and thickness not mentioned in the specified rate chart. Measurement will be based on the weight of the steel casing. Hire Charge of Tripod, Mechanical Winch Machine, Derrick, Welding machine, and other nececcery manpower is included in this unit rate.	MT	125,178.97	125,177.79	125,173.06	125,173.06
4.07.07	Welding: Providing and making specified welding conforming to AWS D1.4 by electric arc welding for construction of cast-in-situ bored pile carefully with highly oxidized electrodes making the points prominent and accepted by the Engineer-in-charge. The cost of all materials, labour, tools and plants, electricity and all equipment is included in this unit rate. Welding shall be carried out under the continuous direction of an experienced and competent superisor.					
4.07.07.01	SW: spot/tack welding at contact point of the spirals at reasonalbe intervals with the main vertical reinforcements of re-bar cage to be placed in borehole.	each	4.11	4.08	3.93	3.93
4.07.07.02	LW: Direct type Lap-welded splice over two sides of contact by welding of minimum length not less than 10 times of bar diameter unless otherwise mentioned in the working drawing at the lap of main reinforcement in re-bar cage to be placed in borehole.	m	496.42	496.42	487.39	487.39
4.07.08	Labour for breaking head of hardened cast-in-situ bored pile/ pre-cast piles to the correct lines and levels from the top of the piles to the cut-off level as indicated in the approved drawing and exposing pile reinforcement for embedment in pile cap by any means and disposal of the debris to an unobjectionable place outside the site premises including scrapping and removing concrete from steel/ MS rods, straightening and bending of pile bars, preparation and making of platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the site and clearing the river bed, etc. all complete as per direction of the E-I-C. Measurement will be given for the actual pile head volume to be broken.The debris from pile chipping shall be disposed outside the site premises at an environmentally safe place with minimum traffic disruption and procuring entity will not be responsilbe for any irregularities by the party regarding dumping of the debris. [PWD 09.7)	cum	3,694.86	3,615.72	3,364.94	3,364.94

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.09	RCC-17BCCM: Reinforced cement concrete work for pre-cast pile with minimum cement content relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 24 MPa and satisfying a compressive strength f'c = 17 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded crushed picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning and washing, centering and shuttering with MS sheet, MS angle, nuts and bolts, chamfering edges, preparation of casting beds, laying polythene, placing reinforcement cages in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 50mm to 100mm, casting, compacting by mechanical vibrators and tapered rods as where necessary, curing for 28 days etc. The cost of reinforcement and it's fabrication, binding, welding and placing is not included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. [Using Concrete Mixture Machine and retail rate of Cement]	cum	13,032.52	12,986.90	12,582.23	12,582.23
4.07.10	RCC-25SCCM: Reinforced cement concrete work for pre-cast pile with cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average compressive strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, cleaning and washing, centering and shuttering with MS sheet, MS angle, nuts and bolts, chamfering edges, preparation of casting beds, laying polythene, placing reinforcement cages in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 50mm to 100mm, casting, compacting by mechanical vibrators and tapered rods as where necessary, curing for 28 days etc. The cost of reinforcement and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. [Using Concrete Mixture Machine and retail rate of Cement]	cum	18,548.33	18,631.93	17,383.29	17,706.41

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.11	RCC-25SCBP: Reinforced cement concrete work for pre-cast pile with cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average compressive strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, cleaning and washing, centering and shuttering with MS sheet, MS angle, nuts and bolts, chamfering edges, preparation of casting beds, laying polythene, placing reinforcement cages in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 50mm to 100mm, casting, compacting by mechanical vibrators and tapered rods as where necessary, curing for 28 days etc. The cost of reinforcement and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	18,917.20	19,009.66	17,777.98	18,101.10
4.07.12	RCC-30SCBP: Reinforced cement concrete work for pre-cast pile with minimum cement content and maximum water cement ratio as specified by the laboratory having minimum required average compressive strength, f'cr = 38.5 MPa and satisfying a specified compressive strength, f'c = 30 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N / ASTM C150 Type-1, water reducing admixture of complying type A under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, cleaning and washing, centering and shuttering with MS sheet, MS angle, nuts and bolts, chamfering edges, preparation of casting beds, laying polythene, placing reinforcement cages in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 50mm to 100mm, casting, compacting by mechanical vibrators and tapered rods as where necessary, curing for 28 days etc. The cost of reinforcement and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. The Mix Design shall have to be approved by the concerned District Quality Control Laboratory or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	19,876.83	19,969.28	18,737.61	19,060.73
4.07.13	Mobilization and demobilization of drop hammer type pre-cast pile driving rig set.	set/site	10,593.33	10,593.33	10,593.33	10,593.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.07.14	Driving pre-cast RCC piles with drop hammer type rig in any type of soil to the required depth including fitting and fixing steel cap, handling and keeping in position and maintaining driving log in prescribed format as per design, drawing & direction of the E-I-C. Before commencing driving operation, contractor shall submit the methodology for carrying the driving operation including sequence of driving to the E-I-C. The maximum permitted deviation of the finished pile from the horizontal & vertical shall be 50mm & 25mm respectively. Cutting of a pile not being installed to the planned depth is exclusively subject to the approval of Design Unit, LGED.					
4.07.14.01	X-section of pre-cast pile: 225mm X 225mm	m	426.47	421.76	404.40	404.40
4.07.14.02	X-section of pre-cast pile: 250mm X 250mm [PWD 09.15)	m	528.28	522.11	502.58	502.58
4.07.14.03	X-section of pre-cast pile: 300mm X 300mm and 350mm X 350mm [PWD 09.16]	m	839.69	831.47	799.61	799.61
4.07.15	Mobilization and demobilization of automatic diesel hammer mounted compete rig set.	per site	189,116.22	189,116.22	189,116.22	189,116.22
4.07.16	Driving pre-cast RCC piles with automatic diesel hammer mounted rig in any type of soil to the required depth including fitting and fixing steel cap, handling and keeping in position and maintaining driving log in prescribed format as per design, drawing & direction of the E-I-C. Before commencing driving operation, contractor shall submit the methodology for carrying the driving operation including sequence of driving to the E-I-C. The maximum permitted deviation of the finished pile from the horizontal & vertical shall be 50mm & 25mm respectively. Cutting of a pile not being installed to the planned depth is exclusively subject to the approval of Design Unit, LGED.					
4.07.16.01	X-section of pre-cast pile: 225 mm X 225 mm	m	624.19	620.07	611.68	611.68
4.07.16.02	X-section of pre-cast pile: 250 mm X 250 mm	m	803.56	798.26	787.47	787.47
4.07.16.03	X-section of pre-cast pile: 300 mm X 300 mm	m	1,050.93	1,044.00	1,029.89	1,029.89
4.07.16.04	X-section of pre-cast pile: 350 mm X 350 mm	m	1,124.22	1,116.80	1,101.71	1,101.71
4.07.16.05	X-section of pre-cast pile: 400 mm X 400 mm	m	1,248.28	1,240.04	1,223.27	1,223.27
4.07.16.06	X-section of pre-cast pile: 450 mm X 450 mm	m	1,338.05	1,329.22	1,311.25	1,311.25
4.07.17	Mobilization and demobilization of Hydraulic Static Pile driver (HSPD) including complete accessories					
4.07.17.01	Maximum pile driving force up to 120 ton	set/site	193,328.33	193,328.33	193,328.33	193,328.33
4.07.17.02	Maximum pile driving force 120 to 180 ton	set/site	246,295.00	246,295.00	246,295.00	246,295.00
4.07.17.03	Maximum pile driving force 180 to 260 ton	set/site	299,261.67	299,261.67	299,261.67	299,261.67
4.07.17.04	Maximum pile driving force 260 to 360 ton	set/site	378,711.67	378,711.67	378,711.67	378,711.67
4.07.17.05	Maximum pile driving force above 360 ton	set/site	431,678.33	431,678.33	431,678.33	431,678.33
4.07.18	Driving pre-cast RCC piles of various sizes (300 mm x 300 mm to 600 mm x 600 mm) in any type of soil using Hydraulic Static pile driver having free of any noise and vibration during driving including handling and installation of pile keeping in position as shown in the drawing, all labours, operators, tools, all equipment charges, power source, piles splicing, site arrangement, keeping all measures to avoid any disturbance to the adjacent structure, keeping driving record & pile capacity Record etc. all complete as per design, drawing, specification & direction of the E-I-C and finally submission of pile driving report in 3(three) copies duly signed by professional engineer. The maximum permitted deviation of the finished pile from the horizontal & vertical shall be 50mm & 25mm respectively. Cutting of a pile not being installed to the planned depth is exclusively subject to the approval of E-I-C.					

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1	2	3	4	5	6	7
4.07.18.01	X-section of pre-cast pile: 300 mm X 300 mm & 350 mm X 350 mm [PWD 9.25.2.1]	m	910.61	909.58	907.53	907.53
4.07.18.02	X-section of pre-cast pile: 400 mm X 400 mm [PWD 9.25.2.2]	m	1,024.69	1,023.67	1,020.58	1,020.58
4.07.18.03	X-section of pre-cast pile: 450 mm X 450 mm [PWD 9.25.2.3] & Above	m	1,071.97	1,070.84	1,067.73	1,067.73
4.07.19	Supplying and driving vertical Steel piles of required shape and length including cost of all materials and labour for hoisting, driving etc. and also including cost of dummy lengths of pile and of hire charges of all instruments as necessary complete as per drawing, technical Specifications and direction of E-I-C.					
4.07.19.01	Steel H-Piles of 400mm x 250mm conforming to requirements of AASHTO M 183.	m	9,181.98	9,180.89	9,179.14	9,179.14
4.07.19.02	Steel H-Piles of 450mm x 250mm conforming to requirements of AASHTO M 183.	m	10,365.83	10,364.56	10,362.52	10,362.52
4.07.20	Manufacturing, supplying and fixing MS shoe for RCC pre-cast pile tip with tip area 12mm x 12 mm, but area 150mm x 150mm and height 250mm, fabricated with 6mm thick 4 nos MS plate (12mm x 150mm x 250mm) at sides and one plate (12mm x 12mm) at tip, having 6mm thick continuous fillet weld at all joints and 20mm dia. 800mm long anchor MS re-bar along with 4 nos. 20mm x 20mm x 3mm MS angle welded to the tip plate including cost of all materials, labour etc. all complete as per design, drawing & direction of the E-I-C. [PWD 09.13]	each	3,418.39	3,387.56	3,261.14	3,261.14
4.07.21	RCC-30SCCM: Reinforced cement concrete work for pre-cast driven micro pile with minimum cement content and maximum water cement ratio as specified by laboratory having minimum required average compressive strength, f'cr = 38.5 MPa and satisfying a specified compressive strength, f'c = 30 MPa at 28 days on standard cylinders as per standard practice of code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N/ ASTM C150 Type-1, water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33, mixing in standard mixture machine with hoper and fed by standard measuring boxes, including all related works like breaking stone boulders into chips, screening through proper sieves, cleaning and washing, centering and shuttering with MS sheet, MS angle, nuts and bolts, chamfering edges, preparation of casting beds, laying polythene, placing reinforcement cages in position, casting in steel forms, compacting by vibrators and tapered rods as where necessary , curing for 28 days, driving the pile upto the design depth as per standard practice or specified method, providing all equipment, labour, materials including carrying etc. all complete as per design, drawing and direction of the E-I-C. The cost of reinforcement and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength to be provided by the contractor at his own cost. The Mix Design shall have to be approved by the concerned District Quality Control Laboratory or any other reputed laboratory approved by the competent authority before execution of the work. [Using Concrete Mixture Machine and retail rate of Cement]					
4.07.21.01	X-section of pre-cast pile: 150mm x 150mm					
4.07.21.01.01	Cost of reinforced cement concrete	m	438.81	440.94	413.13	420.38
4.07.21.01.02	Cost of driving up to 8.00m	m	247.13	243.90	232.55	232.55
4.07.21.02	X-section of pre-cast pile: 200mm x 200mm					

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1	2	3	4	5	6	7
4.07.21.02.01	Cost of reinforced cement concrete	m	779.79	783.63	734.11	747.04
4.07.21.02.02	Cost of driving up to 8.00m	m	325.05	320.72	305.34	305.34
4.07.22	Pre-cast spliced pile jointing by supplying, fitting, fixing prefabricated square shaped two steel caps made up by 6 mm thick ASTM A36 complied M.S plate, sides formed by bent in channel shape to have only two line of joinery on faces, having min 50 mm dia hole on its web; capping by min 12 mm thick ASTM A36 complied M.S plate shaping the edges in 45, having min 40 mm dia hole at centre to pass 25 mm M.S bar 433 mm in length; jointed at channels root by welding; caps fitted with 2 nos BDS ISO 6935-2 2016: B420 DWR complied d20 U-bar 1244mm in length by welding, equidistant from centre holes of cap and shall have min 75 mm clear from pile faces; and finally, the system to be fitted in correct alignments on pile head positions waiting for concreting; both the pile heads fitted with the steel caps to be welded together through v-notches in field, while one of the companion segment of piles drived in ground and other one placed over it maintaining true verticality; all complete as per direction and stepwise approval leading to final approval of Engineer-in-charge.[PWD 09.24]					
4.07.22.01	X-section of pre cast pile segment :300 mm x 300 mm [PWD 09.24.1)	each	11,229.50	11,209.97	11,092.81	11,105.14
4.07.22.02	X-section of pre cast pile segment: 350 mm x 350 mm [PWD 09.24.2)	each	12,689.97	12,671.47	12,546.08	12,558.42
4.07.22.03	X-section of pre cast pile segment: 400 mm x 400 mm [PWD 09.24.3)	each	14,308.72	14,289.19	14,156.61	14,168.94
4.07.22.04	X-section of pre cast pile segment: 450 mm x 450 mm [PWD 09.24.4)	each	14,674.61	14,656.11	14,526.61	14,538.94
4.07.23	SLT: Conducting static load test as per ASTM D 1143 or equivalent standard for the cast in situ/ pre-cast pile providing required land development (earth exavation, sand filling, sub-base, cement concrete work, bullah palisading etc.), Crib wall (sand bags, brick works, CC blocks etc.) depending on test loading, scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization, demobilization, cost of empty gunny/ fertilizer/ plastic bag, concrete block/ steel sheet, sand and filling sacs/ empty gunny/fertilizer/plastic bags, switching, loading and unloading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respects approved and accepted by the E-I-C. Before commencing load test, Contractor shall submit methodology along with combined calibration report for conducting load test to the E-I-C for approval. The Testing firm will be selected taking prior approval of procuring entity. The methodology of static load test and driving logs/ boring & pouring logs shall be the part of test report. Load Test and Report shall be conducted under the supervision of a professional Geotechnical Engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB). [Cost of Combined Calibration Test (Hydraulic Jack, pressure gauge & electric/hydraulic pump) has been included in all sub-items.]					
4.07.23.01	Up to 75 MT	each	152,508.98	152,348.37	151,235.26	151,235.26
4.07.23.02	Above 75 MT and up to 125 MT	each	204,454.36	204,390.34	203,180.63	203,180.63
4.07.23.03	Above 125 MT and up to 175 MT	each	267,735.86	267,666.53	266,080.02	266,080.02
4.07.23.04	Above 175 MT and up to 225 MT	each	319,681.24	319,708.50	318,025.40	318,025.40
4.07.23.05	Above 225 MT and up to 275 MT	each	371,647.32	371,771.40	369,991.48	369,991.48
4.07.23.06	Above 275 MT and up to 325 MT	each	426,374.53	426,544.02	424,463.94	424,463.94
4.07.23.07	Above 325 MT and up to 375 MT	each	478,319.63	478,585.71	476,409.05	476,409.05

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1	2	3	4	5	6	7
4.07.23.08	Above 375 MT and up to 500 MT	each	521,219.63	520,195.61	518,019.56	518,019.56
4.07.23.09	Above 500 MT and up to 700 MT	each	799,886.80	798,657.97	796,046.71	796,046.71
4.07.23.10	Above 700 MT and up to 900 MT	each	969,645.36	968,109.33	964,845.26	964,845.26
4.07.23.11	Above 900 MT and up to 1100 MT	each	1,450,851.51	1,448,793.37	1,444,419.84	1,444,419.84
4.07.23.12	Above 1100 MT and up to 1300 MT	each	1,728,992.79	1,726,420.13	1,720,953.21	1,720,953.21
4.07.23.13	Above 1300 MT and up to 1500 MT	each	1,988,233.98	1,985,146.78	1,978,586.48	1,978,586.48
4.07.23.14	Above 1500 MT and up to 1700 MT	each	2,566,228.57	2,562,935.56	2,555,937.90	2,555,937.90
4.07.23.15	Above 1700 MT and up to 1900 MT	each	2,825,679.43	2,821,974.79	2,814,102.43	2,814,102.43
4.07.23.16	Above 1900 MT and up to 2100 MT	each	3,084,058.77	3,079,942.51	3,071,195.44	3,071,195.44
4.07.23.17	On each additional load Above 2100 MT	MT	1,472.19	1,470.23	1,466.06	1,466.06
4.07.24	LLT: Performing Lateral load test for test load of 1.5 times of the working lateral load in accordance with ASTM D 3966 (Standard Test Methods for Deep Foundations under Lateral Load) on working pile including the cost of arranging kenteldge, jacks, platform, reaction frame with required anchorage, island where required, preparing the pile head if necessary, dial gauges, joist and all other necessary arrangement, loading and unloading, submission of the result, removal of all arrangement after completion, cost of all labour, material, carriage, leads and lift etc. complete as per approved drawing, Technical specification and as directed by the Engineer-in-charge. Before commencing load test, Contractor shall submit methodology for conducting load test to the E-I-C for approval. The Testing firm will be selected taking prior approval of procuring entity. The methodology of lateral load test and driving logs/ boring & pouring logs shall be the part of test report. Lateral Load Test and Report shall be conducted under the supervision of a professional Geotechnical Engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).					
4.07.24.01	LLT_50: Up to 50 ton capacity pile	each	35,752.50	35,752.50	35,752.50	35,752.50
4.07.24.02	LLT_50+: Above 50 ton capacity pile	each	54,290.83	54,290.83	54,290.83	54,290.83
4.07.26	PIT (Pile Integrity Test): Conducting Low-Strain Impact Integrity Testing on cast-in-situ/ pre-cast piles in accordance with ASTM D 5882 (Standard Test Method for Low Strain Impact Integrity Testing of Deep Foundations) using pile integrity tester containing calibrated measuring devices like highly sensitive accelerometer, a magnification device, an amplification box, a small impact device (hammer) & a computer with ability to convert data from analog to digital form with graphical display on completion of required setting/ driving of piles, preparation of pile top by removing soil, mud, dust & chipping lean concrete lumps etc., mobilizing and demobilizing of equipment, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respects approved and accepted by the E-I-C. Report should include proper presentable graph of same wave speed (m/sec), impendence reduction, interpretation of results, cross sectional or material changes (if any), length of pile, concrete quality etc. Routine test samples shall be chosen by E-I-C on random basis. Methodology for conducting PIT shall be submitted to the E-I-C for approval and shall be the part of PIT report. All pile integrity tests shall be performed and analyzed under the supervison of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).					
4.07.26.01	PIT on 10 (ten) nos. piles or less of a single bridge (up to 100km of Dhaka/ nearby source to site)	set	39,725.00	39,725.00	39,658.79	39,658.79

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1	2	3	4	5	6	7
4.07.26.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	km	48.55	48.55	48.55	48.55
4.07.26.03	PIT on each additional pile after 10(ten) piles tested.	each	1,765.64	1,765.64	1,761.23	1,761.23
4.07.27	PDA (Pile Driving Analyzer) Test: Performing high-strain dynamic testing on piles in accordance with ASTM D 4945 (Standard Method for High-Strain Dynamic Testing of Deep Foundation) to evaluate integrity of the hardened pile using pile driving analyser by impacting a weight of atleast 1.5% to 2% of required ultimate pile bearing capacity with a fall varying from 1m to 3m including preparing head, providing ply and sheet plates, fixing atleast 2 pairs of strain & acceleration sensors at diametrically opposite sides, experts, labour, mobilization, demobilization, data acquisition, CAPWAP analysis, integrity, interpolation, preparation of results in standard forms etc. complete in all respects approved and accepted by the E-I-C. Routine test samples shall be chosen by E-I-C on random basis. Before commencing PDA test, Contractor shall submit methodology for conducting test to the E-I-C for approval. The report should include true static capacity of the pile at the time of testing, simulated static load test curve, total skin variation along the length of pile, skin friction variation along the length of the pile, compressive and tensile stressses developed in pile during testing, net and total displacement of the pile & pile integrity. The Testing firm will be selected taking prior approval of procuring entity. All PDA testing shall be performed and analyzed under the supervison of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB).					
4.07.27.01	For test load up to 100 MT					
4.07.27.01.01	Only one pile at a site to test in single run	each	117,157.22	117,062.64	116,684.31	116,684.31
4.07.27.01.02	Up to two piles at a site to test in single run	each	96,664.17	96,569.58	96,191.25	96,191.25
4.07.27.01.03	Up to three piles at a site to test in single run	each	89,832.81	89,738.22	89,359.89	89,359.89
4.07.27.01.04	four or above piles at a site to test in single run	each	86,417.64	86,323.06	85,944.72	85,944.72
4.07.27.02	For test load 101 MT to 300 MT					
4.07.27.02.01	Only one pile at a site to test in single run	each	187,829.89	187,735.31	187,356.97	187,356.97
4.07.27.02.02	Up to two piles at a site to test in single run	each	136,597.25	136,502.67	136,124.33	136,124.33
4.07.27.02.03	Up to three piles at a site to test in single run	each	119,519.36	119,424.78	119,046.45	119,046.45
4.07.27.02.04	four or above piles at a site to test in single run	each	110,980.93	110,886.35	110,508.01	110,508.01
4.07.27.03	For test load 301 MT to 500 MT					
4.07.27.03.01	Only one pile at a site to test in single run	each	307,939.69	307,845.10	307,466.77	307,466.77
4.07.27.03.02	Up to two piles at a site to test in single run	each	225,967.47	225,872.88	225,494.55	225,494.55
4.07.27.03.03	Up to three piles at a site to test in single run	each	198,643.05	198,548.47	198,170.13	198,170.13
4.07.27.03.04	four or above piles at a site to test in single run	each	184,981.35	184,886.77	184,508.44	184,508.44
4.07.27.04	For test load 501 MT to 800 MT					
4.07.27.04.01	Only one pile at a site to test in single run	each	395,610.56	395,515.97	395,137.64	395,137.64
4.07.27.04.02	Up to two piles at a site to test in single run	each	288,022.01	287,927.43	287,549.10	287,549.10
4.07.27.04.03	Up to three piles at a site to test in single run	each	252,159.17	252,064.58	251,686.25	251,686.25
4.07.27.04.04	four or above piles at a site to test in single run	each	234,227.74	234,133.16	233,754.83	233,754.83
4.07.27.05	For test load above 800 MT					
4.07.27.05.01	Only one pile at a site to test in single run	each	446,843.19	446,748.61	446,370.28	446,370.28

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1	2	3	4	5	6	7
4.07.27.05.02	Up to two piles at a site to test in single run	each	313,638.33	313,543.75	313,165.42	313,165.42
4.07.27.05.03	Up to three piles at a site to test in single run	each	269,240.13	269,145.55	268,767.21	268,767.21
4.07.27.05.04	four (or above) piles at a site to test in single run	each	247,035.90	246,941.32	246,562.99	246,562.99
4.07.28	CSL Access Tube Installation: Supplying and Installation of 38 to 50mm inside diameter standard weight MS access tubes in each diameter drilled shaft to permit possible inspection by CSL having regular internal diameter, free of defects and obstructions, free from corrosion with clean internal and external faces to ensure a good bond between the concrete and the tubes, fit with a watertight shoe on the bottom and removable cap on the top, extended to within 150mm of the bottom of the drilled shaft to at least 1.0m above the top of the concrete and at least 0.6m but not more than 1.5m above the ground surface including materials, labour, tools and equipment necessary for unobstructed passage of the probes during the CSL Testing.	m	916.44	915.03	909.09	909.09
4.07.29	CSL (Crosshole Sonic Logging) Test: Conducting ultrasonic crosshole testing for checking homogeneity, structural integrity, location of defects (if any) of concrete in bored pile/ drilled shafts in accordance with ASTM D 6760 (Standard Test Method for Integrity Testing of Concrete Deep Foundation by Ultrasonic Crosshole Testing) providing all equipment, experts, labour, mobilization, demobilization, data acquisition, analysis software, integrity, interpolation, preparation of results in standard forms etc. complete in all respects approved and accepted by the E-I-C. The contractor shall provide a pleliminary report to the E-I-C within 72 hours after the CSL testing has been finished and furnish two copies of the final CSL testing report sealed by the professional Geotechnical Engineer within 10 working days of testing. The final report should include CSL logs with analysis of the initial pulse arrival time versus depth and pulse energy/ amplitude versus depth and summary of the CSL test results which covers bored pile identification, test data, shaft age at time of CSL testing, bored pile diameter, number of CSL tubes tested, test length, average compression velocity & a drecription of defects detected. Before commencing CSL test, Contractor shall submit methodology with resumes of the consulting personnel for conducting test to the E-I-C for approval. All CSL testing shall be performed and analyzed under the supervison of a professional geotechnical engineer registered in the Bangladesh Professional Engineers Registration Board (BPERB), Institute of Engineers Bangladesh (IEB). The Testing firm will be selected taking prior approval of procuring entity.					
4.07.29.01	Mobilization & demobilization within 100km of Dhaka/ nearby source to site and CSL Testing on 4 (four) nos. access tubes or less of a single bored pile/drilled shafts	set	286,351.04	286,337.80	286,218.63	286,218.63
4.07.29.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	km	48.55	48.55	48.55	48.55
4.07.29.03	CSL Testing on each additional access tube after 4(four) access tubes	each	58,677.14	58,673.83	58,644.03	58,644.03

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1	2	3	4	5	6	7
4.07.30	PG: Conducting post-grouting of the large diameter piles by repeatedly injecting high presssure grout after 1 or 2 days of concreting to improve shaft friction and end-bearing. Head displacement during base grouting operations must be carefully monitored and limited to 3mm. Conduit pipes with easily removable plugs at the bottom/ peripheral end should be placed in the bore along with reinforcement cage before concreting. including the cost of arranging kenteldge, jacks, platform, reaction frame with required anchorage, island where required, preparing the pile head if necessary, dial gauges, joist and all other necessary arrangement, loading and unloading, submission of the result, removal of all arrangement after completion, cost of all labour, material, carriage, leads and lift etc. complete as per approved drawing, Technical specification and as directed by the Engineer-in-charge. Before commencing post-grouting, Contractor shall submit methodology for conducting post-grouting to the Engineer-in-charge for approval. The firm will be selected taking prior approval of procuring entity. This item shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.					
4.07.30.01	PG_60: Post-grouting work by applying pressure up to 60 bars	cum	38,599.46	38,308.14	37,341.50	37,341.50
4.07.31	VH-MD: Mobilization and demobilization of Crane (crawler) and vibratory Hammer etc. compelete rig set (PWD 09.26)	set/site	153,350.61	153,350.61	153,350.61	153,350.61
Section-08: Well Foundation Work						
4.08.01	Sinking of Well as per specification through all types of strata namely sandy soil, clayey soil and rock as shown against each case, including drawing Foundation Wells true to position and plumb with dia under cutting edge as mentioned below, including hire charges of all tools and plants etc. and supplying power, dewatering etc., initial excavation of earth complete as per drawing and technical specifications and direction of the Engineer-in-charge including throwing the spoils clear off the well up to 150m radius (Measurement to be taken in the following stages from the level of the bottom of capping slab on well up to the bottom of cutting edge) through any kind of soil including rocky soil and rock till 25% of cutting edge (linear) comes in contact with rock including testing of bottom plug by dewatering the well upto 5 meters and checking the rise in water level as per Specification. Depth of sinking is reckoned from bed level.					
4.08.01.01	Sinking of 6m external diameter well in Sandy Soil					
4.08.01.01.01	Depth below bed level up to 3.0 m	m	6,775.19	6,747.45	6,558.79	6,558.79
4.08.01.01.02	Depth beyond 3.0 m up to 10.0 m	m	9,509.41	9,474.73	9,238.90	9,238.90
4.08.01.01.03	Depth beyond 10.0 m up to 15.0 m	m	11,030.91	10,990.68	10,717.12	10,717.12
4.08.01.01.04	Depth beyond 15.0 m up to 20.0 m	m	14,073.92	14,022.60	13,673.57	13,673.57
4.08.01.01.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	23,298.05	23,213.08	22,635.31	22,635.31
4.08.01.01.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	33,282.93	33,161.55	32,336.15	32,336.15
4.08.01.01.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	51,350.81	51,163.53	49,890.06	49,890.06
4.08.01.02	Sinking of 6m external diameter well in Clayey Soil					
4.08.01.02.01	Depth below bed level up to 3.0 m	m	9,561.43	9,530.22	9,290.92	9,290.92
4.08.01.02.02	Depth beyond 3.0 m up to 10.0 m	m	23,090.31	23,027.89	22,549.30	22,549.30
4.08.01.02.03	Depth beyond 10.0 m up to 15.0 m	m	27,708.38	27,633.47	27,059.16	27,059.16

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.01.02.04	Depth beyond 15.0 m up to 20.0 m	m	35,789.99	35,693.23	34,951.41	34,951.41
4.08.01.02.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	60,034.82	59,872.51	58,628.17	58,628.17
4.08.01.02.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	87,743.19	87,505.98	85,687.33	85,687.33
4.08.01.02.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	129,305.76	128,956.18	126,276.06	126,276.06
4.08.01.03	Sinking of 6m external diameter well in Soft Rock					
4.08.01.03.01	Depth below bed level up to 3.0 m	m	36,400.52	36,110.47	34,629.73	34,629.73
4.08.01.04	Sinking of 7m external diameter well in Sandy Soil					
4.08.01.04.01	Depth below bed level up to 3.0 m	m	10,030.45	9,995.77	9,759.94	9,759.94
4.08.01.04.02	Depth beyond 3.0 m up to 10.0 m	m	13,284.04	13,242.42	12,959.43	12,959.43
4.08.01.04.03	Depth beyond 10.0 m up to 15.0 m	m	15,409.49	15,361.21	15,032.94	15,032.94
4.08.01.04.04	Depth beyond 15.0 m up to 20.0 m	m	19,660.38	19,598.79	19,179.96	19,179.96
4.08.01.04.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	32,545.90	32,443.94	31,750.60	31,750.60
4.08.01.04.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	46,494.14	46,348.48	45,358.01	45,358.01
4.08.01.04.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	71,733.82	71,509.09	69,980.92	69,980.92
4.08.01.05	Sinking of 7m external diameter well in Clayey Soil					
4.08.01.05.01	Depth below bed level up to 3.0 m	m	13,284.04	13,242.42	12,959.43	12,959.43
4.08.01.05.02	Depth beyond 3.0 m up to 10.0 m	m	24,179.38	24,123.89	23,745.18	23,745.18
4.08.01.05.03	Depth beyond 10.0 m up to 15.0 m	m	29,015.26	28,948.67	28,494.22	28,494.22
4.08.01.05.04	Depth beyond 15.0 m up to 20.0 m	m	37,478.04	37,392.04	36,805.03	36,805.03
4.08.01.05.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	62,866.40	62,722.13	61,737.47	61,737.47
4.08.01.05.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	91,881.66	91,670.80	90,231.69	90,231.69
4.08.01.05.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	135,404.55	135,093.81	132,973.02	132,973.02
4.08.01.06	Sinking of 7m external diameter well in Soft Rock					
4.08.01.06.01	Depth below bed level up to 3.0 m	m	30,954.83	30,809.81	29,843.20	29,843.20
4.08.01.07	Sinking of 8m external diameter well in Sandy Soil					
4.08.01.07.01	Depth below bed level up to 3.0 m	m	12,243.62	12,202.01	11,919.01	11,919.01
4.08.01.07.02	Depth beyond 3.0 m up to 10.0 m	m	15,016.68	14,968.13	14,635.19	14,635.19
4.08.01.07.03	Depth beyond 10.0 m up to 15.0 m	m	17,419.35	17,363.03	16,976.83	16,976.83
4.08.01.07.04	Depth beyond 15.0 m up to 20.0 m	m	22,224.69	22,152.83	21,660.09	21,660.09

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.01.07.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	36,790.87	36,671.91	35,856.23	35,856.23
4.08.01.07.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	52,558.38	52,388.45	51,223.18	51,223.18
4.08.01.07.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	81,090.08	80,827.89	79,030.05	79,030.05
4.08.01.08	Sinking of 8m external diameter well in Clayey Soil					
4.08.01.08.01	Depth below bed level up to 3.0 m	m	16,270.73	16,222.18	15,873.98	15,873.98
4.08.01.08.02	Depth beyond 3.0 m up to 10.0 m	m	25,104.66	25,042.24	24,596.94	24,596.94
4.08.01.08.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	30,125.59	30,050.68	29,516.32	29,516.32
4.08.01.08.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	38,912.22	38,815.46	38,125.25	38,125.25
4.08.01.08.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	65,272.12	65,109.81	63,952.04	63,952.04
4.08.01.08.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	95,397.71	95,160.49	93,468.36	93,468.36
4.08.01.08.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	140,586.10	140,236.52	137,742.85	137,742.85
4.08.01.09	Sinking of 8m external diameter well in Soft Rock					
4.08.01.09.01	Depth below bed level up to 3.0 m	m	33,993.17	33,819.13	32,711.12	32,711.12
4.08.01.10	Sinking of 9m external diameter well in Sandy Soil					
4.08.01.10.01	Depth below bed level up to 3.0 m	m	12,444.08	12,398.99	12,101.43	12,101.43
4.08.01.10.02	Depth beyond 3.0 m up to 10.0 m	m	16,458.00	16,402.52	16,040.45	16,040.45
4.08.01.10.03	Depth beyond 10.0 m up to 15.0 m	m	19,091.29	19,026.92	18,606.92	18,606.92
4.08.01.10.04	Depth beyond 15.0 m up to 20.0 m	m	24,357.85	24,275.72	23,739.87	23,739.87
4.08.01.10.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	40,322.11	40,186.16	39,299.10	39,299.10
4.08.01.10.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	57,603.02	57,408.80	56,141.58	56,141.58
4.08.01.10.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	88,873.22	88,573.58	86,618.43	86,618.43
4.08.01.11	Sinking of 9m external diameter well in Clayey Soil					
4.08.01.11.01	Depth below bed level up to 3.0 m	m	17,244.70	17,192.68	16,811.88	16,811.88
4.08.01.11.02	Depth beyond 3.0 m up to 10.0 m	m	27,537.85	27,468.49	26,994.06	26,994.06
4.08.01.11.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	33,045.42	32,962.18	32,392.87	32,392.87
4.08.01.11.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	42,683.66	42,576.16	41,840.79	41,840.79

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.01.11.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	71,598.41	71,418.07	70,184.55	70,184.55
4.08.01.11.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	104,643.82	104,380.25	102,577.42	102,577.42
4.08.01.11.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	154,211.95	153,823.53	151,166.72	151,166.72
4.08.01.12	Sinking of 9m external diameter well in Soft Rock					
4.08.01.12.01	Depth below bed level up to 3.0 m	m	39,653.50	39,450.46	38,206.12	38,206.12
4.08.01.13	Sinking of 10m external diameter well in Sandy Soil					
4.08.01.13.01	Depth below bed level up to 3.0 m	m	14,725.36	14,676.81	14,364.69	14,364.69
4.08.01.13.02	Depth beyond 3.0 m up to 10.0 m	m	17,451.39	17,392.44	16,996.39	16,996.39
4.08.01.13.03	Depth beyond 10.0 m up to 15.0 m	m	20,243.62	20,175.23	19,715.81	19,715.81
4.08.01.13.04	Depth beyond 15.0 m up to 20.0 m	m	25,828.06	25,740.81	25,154.65	25,154.65
4.08.01.13.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	42,755.92	42,611.47	41,641.14	41,641.14
4.08.01.13.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	61,079.88	60,873.53	59,487.35	59,487.35
4.08.01.13.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	94,237.53	93,919.16	91,780.48	91,780.48
4.08.01.14	Sinking of 10m external diameter well in Clayey Soil					
4.08.01.14.01	Depth below bed level up to 3.0 m	m	19,351.75	19,275.45	18,779.52	18,779.52
4.08.01.14.02	Depth beyond 3.0 m up to 10.0 m	m	27,917.85	27,841.55	27,300.53	27,300.53
4.08.01.14.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	33,501.42	33,409.86	32,760.64	32,760.64
4.08.01.14.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	43,272.66	43,154.40	42,315.83	42,315.83
4.08.01.14.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	72,586.40	72,388.03	70,981.39	70,981.39
4.08.01.14.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	106,087.82	105,797.89	103,742.03	103,742.03
4.08.01.14.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	156,339.94	155,912.68	152,882.99	152,882.99
4.08.01.15	Sinking of 10m external diameter well in Soft Rock					
4.08.01.15.01	Depth below bed level up to 3.0 m	m	43,160.37	42,928.33	41,546.21	41,546.21
4.08.01.16	Sinking of 11m external diameter well in Sandy Soil					
4.08.01.16.01	Depth below bed level up to 3.0 m	m	33,326.63	33,235.07	32,631.63	32,631.63
4.08.01.16.02	Depth beyond 3.0 m up to 10.0 m	m	28,019.11	27,894.26	27,073.03	27,073.03
4.08.01.16.03	Depth beyond 10.0 m up to 15.0 m	m	32,502.17	32,357.35	31,404.71	31,404.71
4.08.01.16.04	Depth beyond 15.0 m up to 20.0 m	m	41,468.29	41,283.51	40,068.08	40,068.08

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.01.16.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	68,646.83	68,340.95	66,328.92	66,328.92
4.08.01.16.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	98,066.90	97,629.93	94,755.60	94,755.60
4.08.01.16.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	151,303.22	150,629.03	146,194.36	146,194.36
4.08.01.17	Sinking of 11m external diameter well in Clayey Soil					
4.08.01.17.01	Depth below bed level up to 3.0 m	m	32,272.34	32,161.36	31,334.58	31,334.58
4.08.01.17.02	Depth beyond 3.0 m up to 10.0 m	m	58,238.36	58,078.83	56,895.53	56,895.53
4.08.01.17.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	69,886.04	69,694.60	68,274.64	68,274.64
4.08.01.17.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	90,269.46	90,022.19	88,188.07	88,188.07
4.08.01.17.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	151,419.74	151,004.97	147,928.38	147,928.38
4.08.01.17.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	221,305.78	220,699.56	216,203.02	216,203.02
4.08.01.17.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	326,134.83	325,241.46	318,614.98	318,614.98
4.08.01.18	Sinking of 11m external diameter well in Soft Rock					
4.08.01.18.01	Depth below bed level up to 3.0 m	m	95,790.85	95,268.75	92,208.66	92,208.66
4.08.01.19	Sinking of 12m external diameter well in Sandy Soil					
4.08.01.19.01	Depth below bed level up to 3.0 m	m	69,799.47	69,577.52	68,143.13	68,143.13
4.08.01.19.02	Depth beyond 3.0 m up to 10.0 m	m	79,745.86	79,482.28	77,631.73	77,631.73
4.08.01.19.03	Depth beyond 10.0 m up to 15.0 m	m	92,505.19	92,199.45	90,052.81	90,052.81
4.08.01.19.04	Depth beyond 15.0 m up to 20.0 m	m	118,023.87	117,633.78	114,894.96	114,894.96
4.08.01.19.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	195,377.35	194,731.60	190,197.74	190,197.74
4.08.01.19.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	279,110.50	278,188.00	271,711.06	271,711.06
4.08.01.19.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	430,627.63	429,204.34	419,211.34	419,211.34
4.08.01.20	Sinking of 12m external diameter well in Clayey Soil					
4.08.01.20.01	Depth below bed level up to 3.0 m	m	78,572.27	78,322.57	76,408.20	76,408.20
4.08.01.20.02	Depth beyond 3.0 m up to 10.0 m	m	139,782.06	139,449.13	136,943.80	136,943.80
4.08.01.20.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	167,738.47	167,338.95	164,332.56	164,332.56
4.08.01.20.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	216,662.19	216,146.15	212,262.90	212,262.90

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.01.20.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	363,433.36	362,567.73	356,053.89	356,053.89
4.08.01.20.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	531,171.83	529,906.68	520,386.45	520,386.45
4.08.01.20.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	782,779.54	780,915.11	766,885.30	766,885.30
4.08.01.21	Sinking of 12m external diameter well in Soft Rock					
4.08.01.21.01	Depth below bed level up to 3.0 m	m	219,917.22	218,757.00	211,995.80	211,995.80
4.08.02	Sinking of Twin D Type Well as per specification through all types of strata namely sandy soil, clayey soil and rock as shown against each case, including drawing Foundation Wells true to position and plumb with dia under cutting edge as mentioned below, including hire charges of all tools and plants etc. and supplying power, dewatering etc., initial excavation of earth complete as per drawing and technical specifications and direction of the Engineer-in-charge including throwing the spoils clear off the well up to 150m radius (Measurement to be taken in the following stages from the level of the bottom of capping slab on well up to the bottom of cutting edge). Depth of sinking is reckoned from bed level.					
4.08.02.01	Sinking of 8m external diameter well in Sandy Soil					
4.08.02.01.01	Depth below bed level up to 3.0 m	m	15,713.76	15,661.74	15,353.08	15,353.08
4.08.02.01.02	Depth beyond 3.0 m up to 10.0 m	m	17,035.09	16,979.60	16,632.79	16,632.79
4.08.02.01.03	Depth beyond 10.0 m up to 15.0 m	m	19,760.70	19,696.34	19,294.04	19,294.04
4.08.02.01.04	Depth beyond 15.0 m up to 20.0 m	m	25,211.93	25,129.81	24,616.54	24,616.54
4.08.02.01.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	41,735.97	41,600.02	40,750.35	40,750.35
4.08.02.01.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	59,622.81	59,428.60	58,214.78	58,214.78
4.08.02.01.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	91,989.48	91,689.84	89,817.09	89,817.09
4.08.02.02	Sinking of 8m external diameter well in Clayey Soil					
4.08.02.02.01	Depth below bed level up to 3.0 m	m	18,738.04	18,682.55	18,269.16	18,269.16
4.08.02.02.02	Depth beyond 3.0 m up to 10.0 m	m	30,977.50	30,894.27	30,304.70	30,304.70
4.08.02.02.03	Depth beyond 10.0 m up to 15.0 m	m	37,173.01	37,073.13	36,365.64	36,365.64
4.08.02.02.04	Depth beyond 15.0 m up to 20.0 m	m	48,015.13	47,886.12	46,972.29	46,972.29
4.08.02.02.05	Depth beyond 20.0 m up to 25.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	80,541.51	80,325.11	78,792.22	78,792.22
4.08.02.02.06	Depth beyond 25.0 m up to 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	117,714.52	117,398.23	115,157.87	115,157.87
4.08.02.02.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	173,474.03	173,007.92	169,706.33	169,706.33
4.08.02.03	Sinking of 8m external diameter well in Soft Rock					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.02.03.01	Depth below bed level up to 3.0 m	m	49,494.50	49,276.96	47,909.35	47,909.35
4.08.03	SL: Providing Steel liner 10 mm thick for Curbs and 6 mm thick for Steining of Wells including fabrication and setting out as per detailed drawing, specification and direction of Engineer-in-Charge.	MT	134,246.67	134,097.83	132,443.15	132,443.15
4.08.04	SCE: Providing and laying Steel Cutting edge weighing not less than 40 kg per metre for Well foundation including cost & carriage of all materials complete as per drawing, specification and direction of Engineer-in-charge.	MT	148,178.92	147,913.40	145,798.44	145,798.44
4.08.05	PCC/RCC_WF: Plain/ Reinforced Cement Concrete, in Well foundation with coarse aggregates of appropriate nominal size and grading, fine aggregate (sand) conforming to proper grading zone, both of approved quality, cement and water reducing admixtures, as necessary, including labour, cost and carriage of all materials and including preparation of design mix, approval of the same by the Engineer-in-Charge and cost for quality control, sampling, testing etc. all complete as per drawing and technical specification including the cost of necessary form work and staging complete.					
4.08.05.01	In well curb					
4.08.05.01.01	RCC-17BCCM : Compressive strength, f'c = 17 Mpa MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	12,970.83	12,952.79	12,613.33	12,613.33
4.08.05.01.02	RCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35), water reducing admixture of complying type A under ASTM C 494 [Using Concrete Mixture Machine and retail rate of Cement]	cum	17,341.74	17,482.90	16,183.39	16,538.09
4.08.05.01.03	RCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35),, water reducing admixture of complying type A under ASTM C 494 [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	16,684.96	16,845.55	15,625.63	15,980.33
4.08.05.01.04	RCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30), high range water reducing admixture of complying type F under ASTM C 494 [Using Concrete Mixture Machine and retail rate of Cement]	cum	18,381.28	18,492.93	17,268.04	17,599.45
4.08.05.01.05	RCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30), high range water reducing admixture of complying type F under ASTM C 494 [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,661.70	17,792.78	16,647.48	16,978.88
4.08.05.01.06	RCC-30SCCM : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30), high range water reducing admixture of complying type F under ASTM C 494. [Using Concrete Mixture Machine and retail rate of Cement]	cum	19,614.61	19,726.26	18,501.37	18,832.78

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.05.01.07	PCC-30SCBP : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	18,666.13	18,797.22	17,651.91	17,983.32
4.08.05.02	In well steining					
4.08.05.02.01	RCC-17BCCM : Compressive strength, f'c = 17 MPa Mpa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	11,889.92	11,873.39	11,562.22	11,562.22
4.08.05.02.02	RCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35), water reducing admixture of complying type A under ASTM C 494 [Using Concrete Mixture Machine and retail rate of Cement]	cum	15,896.59	16,025.99	14,834.78	15,159.92
4.08.05.02.03	RCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35),, water reducing admixture of complying type A under ASTM C 494 [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	15,294.54	15,441.75	14,323.50	14,648.64
4.08.05.02.04	RCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	16,849.51	16,951.86	15,829.04	16,132.83
4.08.05.02.05	RCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	16,189.89	16,310.05	15,260.19	15,563.97
4.08.05.02.06	RCC-30SCCM : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	17,980.06	18,082.41	16,959.59	17,263.38
4.08.05.02.07	RCC-30SCBP : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,110.62	17,230.78	16,180.92	16,484.71
4.08.05.02.08	RCC-35SCBP : Compressive strength, f'c = 35 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.8 and 20mm down well graded crushed stone chips (LAA <=25). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	18,224.56	18,344.72	17,294.86	17,598.65

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.05.03	In Bottom Plug [Concrete to be placed using tremie pipe, 10% extra cement is included in these unit rates.]					
4.08.05.03.01	PCC-17BCCM : Compressive strength, f'c = 17 MPa Mpa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 40mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	12,208.84	12,194.12	11,904.53	11,904.53
4.08.05.03.02	PCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Concrete Mixture Machine and retail rate of Cement]	cum	16,047.96	16,182.00	15,007.43	15,289.51
4.08.05.03.03	PCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	15,153.41	15,304.51	14,199.68	14,481.76
4.08.05.03.04	PCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	17,302.76	17,498.50	16,320.58	16,606.69
4.08.05.03.05	PCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	16,347.76	16,560.57	15,452.37	15,738.49
4.08.05.03.06	RCC-30SCCM : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	18,487.68	18,683.50	17,505.68	17,791.79
4.08.05.03.07	PCC-30SCBP : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=25). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,314.51	17,527.32	16,419.13	16,705.24
4.08.05.04	In Intermediate Plug [Concrete to be placed using tremie pipe, 10% extra cement is included in these unit rates.]					
4.08.05.04.01	PCC-17BCCM : Compressive strength, f'c = 17 MPa Mpa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 40mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	11,627.46	11,613.45	11,337.65	11,337.65
4.08.05.04.02	PCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Concrete Mixture Machine and retail rate of Cement]	cum	15,283.77	15,411.43	14,292.79	14,561.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.05.04.03	PCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	14,431.82	14,575.72	13,523.50	13,792.15
4.08.05.04.04	PCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	16,478.82	16,665.24	15,543.41	15,815.89
4.08.05.04.05	PCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	15,569.29	15,771.97	14,716.55	14,989.03
4.08.05.05	In Top Plug					
4.08.05.05.01	PCC-17BCCM : Compressive strength, f'c = 17 MPa Mpa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 40mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	10,626.37	10,612.43	10,336.73	10,336.73
4.08.05.05.02	PCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Concrete Mixture Machine and retail rate of Cement]	cum	14,345.64	14,473.36	13,354.83	13,623.47
4.08.05.05.03	PCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, water reducing admixture of complying type A under ASTM C 494, sand of minimum FM 2.2 and 38mm down well graded crushed stone chips (LAA <=35). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	13,798.32	13,942.24	12,890.03	13,158.67
4.08.05.05.04	PCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	15,631.50	15,817.99	14,696.26	14,968.75
4.08.05.05.05	PCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 38mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	15,031.85	15,234.53	14,179.12	14,451.61
4.08.05.06	In well cap					
4.08.05.06.01	RCC-17BCCM : Compressive strength, f'c = 17 MPa Mpa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded crushed picked brick chips (LAA <=38) [Using Concrete Mixture Machine and retail rate of Cement]	cum	11,188.32	11,172.49	10,878.00	10,878.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.08.05.06.02	RCC-20SCCM : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35), water reducing admixture of complying type A under ASTM C 494 [Using Concrete Mixture Machine and retail rate of Cement]	cum	14,993.38	15,115.42	13,991.89	14,298.56
4.08.05.06.03	RCC-20SCBP : Compressive strength, f'c = 20 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 2.2 and 20mm down well graded crushed stone chips (LAA <=35),, water reducing admixture of complying type A under ASTM C 494 [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	14,425.54	14,564.38	13,509.66	13,816.33
4.08.05.06.04	RCC-25SCCM : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	15,853.85	15,950.16	14,893.69	15,179.52
4.08.05.06.05	RCC-25SCBP : Compressive strength, f'c = 25 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	15,233.21	15,346.27	14,358.45	14,644.29
4.08.05.06.06	RCC-30SCCM : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Concrete Mixture Machine and retail rate of Cement]	cum	16,835.87	16,931.71	15,880.34	16,164.80
4.08.05.06.07	RCC-30SCBP : Compressive strength, f'c = 30 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.5 and 20mm down well graded crushed stone chips (LAA <=30). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	16,021.77	16,134.28	15,151.23	15,435.68
4.08.05.06.08	RCC-35SCBP : Compressive strength, f'c = 35 MPa at 28 days on standard cylinders, cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N, high range water reducing admixture of complying type F under ASTM C 494, sand of minimum FM 2.8 and 20mm down well graded crushed stone chips (LAA <=25). [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	cum	17,064.82	17,177.33	16,194.28	16,478.73
4.08.06	Brick work with 1st class brick in specified cement mortar in staining of wells with sand of minimum FM 1.50 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, cutting bricks to required sizes, cleaning and soaking bricks at least for 24 hours before use, hoisting and keeping in position the MS bond rods and finished with flush pointing joints, watering, etc. complete including cost of all materials but excluding cost of MS bond rods and bottle nuts, etc. all complete as per direction of the E-I-C.					
4.08.06.01	Cement mortar (1:3)	cum	10,978.60	10,924.38	10,555.50	10,548.31
4.08.06.02	Cement mortar (1:4)	cum	10,488.66	10,434.43	10,065.56	10,058.37

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-09: Reinforced Cement Concrete (RCC) Works						
4.09.01	RCC-17BCCM: Reinforced cement concrete work with minimum cement content relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.45 having minimum required average strength, f'cr = 24 MPa and satisfying a compressive strength f'c = 17 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 20mm down well graded crushed picked brick chips (LAA value & maximum water absorption not exceeding 38 & 15% respectively) conforming to garadation requirement as per ASTM C 33 including screening chips through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, fed by standard measuring boxes, maintaining allowable slump of 50mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included in this unit rate. Additional quantity of cement to be added if required to attain the specified strength at the contractor's own cost. [Using Concrete Mixture Machine and retail rate of Cement]					
4.09.01.01	For pile caps, abutment base of bridges and bottom slab of box culverts	cum	13,032.52	12,986.90	12,582.23	12,582.23
4.09.01.02	For diaphragm walls, wing walls, piers, columns, pier caps, abutments of bridges and vertical members of box culverts					
4.09.01.02.01	For height up to 5m	cum	13,630.35	13,582.63	13,159.39	13,159.39
4.09.01.02.02	For height above 5m	cum	17,037.93	16,978.29	16,449.24	16,449.24
4.09.01.03	For solid slab type super-structure including cantilever, side walk, curb, wheel guard of bridges					
4.09.01.03.01	For height Up to 5m	cum	16,739.02	16,680.42	16,160.66	16,160.66
4.09.01.03.02	For height above 5m	cum	18,831.40	18,765.47	18,180.74	18,180.74
4.09.01.04	For T-girder & slab type super-structure including cross girders, side walk, curb, wheel guard of bridges					
4.09.01.04.01	For height up to 5m	cum	17,900.97	17,826.56	17,253.49	17,253.49
4.09.01.04.02	For height above 5m	cum	20,362.35	20,277.72	19,625.85	19,625.85
4.09.01.05	For top slab including curb and wheel guard of box culvert					
4.09.01.05.01	For height up to 5m	cum	15,304.25	15,250.67	14,775.46	14,775.46
4.09.01.05.02	For height above 5m	cum	16,222.50	16,165.71	15,661.99	15,661.99
4.09.01.06	For cast-in-situ/ pre-cast railing and rail post of bridges and box culverts					
4.09.01.06.01	For pre-cast railing and rail post	cum	15,925.69	15,859.49	15,349.66	15,349.66
4.09.01.06.02	For cast-in-situ railing and rail post	cum	14,073.87	14,015.37	13,564.82	13,564.82

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.02	RCC-20SCCM: Reinforced cement concrete work with minimum cement content relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 MPa and satisfying a compressive strength f'c = 20 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.2 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 35) conforming to ASTM C33 including screening chips through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. [Using Concrete Mixture Machine and retail rate of Cement]					
4.09.02.01	For pile caps, abutment base of bridges and bottom slab of Box Culvert	cum	17,292.06	17,391.25	16,114.85	16,437.04
4.09.02.02	For diaphragm walls, wing walls, piers, columns, abutments of bridges and vertical members of box culverts					
4.09.02.02.01	For height up to 5m	cum	17,840.87	17,944.61	16,609.66	16,946.63
4.09.02.02.02	For height above 5m to 10m	cum	22,301.09	22,430.76	20,762.08	21,183.28
4.09.02.02.03	For height above 10m to 15m	cum	26,761.31	26,916.91	24,914.49	25,419.94
4.09.02.02.04	For height above 15m to 20m	cum	31,221.52	31,403.06	29,066.91	29,656.59
4.09.02.02.05	For height above 20m	cum	32,113.57	32,300.29	29,897.39	30,503.93
4.09.02.03	For solid slab type super-structure including cantilever, side walk, curb, wheel guard of bridges					
4.09.02.03.01	For height up to 5m	cum	21,909.84	22,037.24	20,397.83	20,811.65
4.09.02.03.02	For height above 5m to 10m	cum	24,648.57	24,791.89	22,947.56	23,413.10
4.09.02.03.03	For height above 10m to 15m	cum	27,387.30	27,546.55	25,497.29	26,014.56
4.09.02.03.04	For height above 15m to 20m	cum	30,126.03	30,301.20	28,047.02	28,616.01
4.09.02.03.05	For height above 20m	cum	30,673.78	30,852.13	28,556.96	29,136.30
4.09.02.04	For T-girder & slab type super-structure including cross girders, side walk, curb, wheel guard of bridges					
4.09.02.04.01	For height up to 5 m	cum	23,256.46	23,374.69	21,641.99	22,070.59
4.09.02.04.02	For height above 5m to 10m	cum	26,454.23	26,588.71	24,617.77	25,105.29
4.09.02.04.03	For height above 10m to 15m	cum	29,651.99	29,802.73	27,593.54	28,140.00
4.09.02.04.04	For height above 15m to 20m	cum	32,849.75	33,016.75	30,569.31	31,174.70
4.09.02.04.05	For height above 20m	cum	33,489.31	33,659.56	31,164.47	31,781.64
4.09.02.05	For top slab including curb and wheel guard of box culvert					
4.09.02.05.01	For height up to 5m	cum	20,031.86	20,148.33	18,649.45	19,027.79
4.09.02.05.02	For height above 5m	cum	21,233.77	21,357.23	19,768.41	20,169.46

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.02.06	For cast-in-situ/ pre-cast railing & rail post of bridges and box culverts					
4.09.02.06.01	For pre-cast railing & rail post	cum	19,505.90	19,484.19	18,517.93	18,746.96
4.09.02.06.02	For cast-in-situ railing & rail post	cum	17,237.77	17,218.59	16,364.68	16,567.08
4.09.03	RCC-25SCCM: Reinforced cement concrete work with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. [Using Concrete Mixture Machine and retail rate of Cement]					
4.09.03.01	For pile caps, abutment base, facing elements of Reinforced/ Mechanically Stabilized Earth Structure, bottom slab of Box Culvert etc.	cum	18,002.63	18,075.02	16,866.39	17,167.42
4.09.03.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges and vertical members of box culverts					
4.09.03.02.01	For height up to 5m	cum	18,828.44	18,904.14	17,640.08	17,954.91
4.09.03.02.02	For height above 5m to 10m	cum	23,535.55	23,630.18	22,050.10	22,443.64
4.09.03.02.03	For height above 10m to 15m	cum	28,242.66	28,356.22	26,460.11	26,932.37
4.09.03.02.04	For height above 15m to 20m	cum	32,949.77	33,082.25	30,870.13	31,421.09
4.09.03.02.05	For height above 20m	cum	33,891.19	34,027.46	31,752.14	32,318.84
4.09.03.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.03.03.01	For height up to 5 m	cum	25,600.07	25,703.00	23,984.31	24,412.38
4.09.03.03.02	For height above 5m to 10m	cum	28,416.08	28,530.33	26,622.59	27,097.74
4.09.03.03.03	For height above 10m to 15m	cum	31,232.08	31,357.67	29,260.86	29,783.10
4.09.03.03.04	For height above 15 m to 20 m	cum	34,048.09	34,185.00	31,899.14	32,468.46
4.09.03.03.05	For height above 20m	cum	36,864.10	37,012.33	34,537.41	35,153.83
4.09.03.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.03.04.01	Height up to 5 m	cum	27,048.36	27,139.48	25,327.02	25,768.89
4.09.03.04.02	For height above 5m to 10m	cum	29,076.99	29,174.95	27,226.54	27,701.56
4.09.03.04.03	For height above 10m to 15m	cum	31,105.62	31,210.41	29,126.07	29,634.22
4.09.03.04.04	For height above 15m to 20m	cum	33,134.24	33,245.87	31,025.59	31,566.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.03.04.05	For height above 20m	cum	35,162.87	35,281.33	32,925.12	33,499.56
4.09.03.05	For top slab including curb and wheel guard of box culvert					
4.09.03.05.01	Height up to 5 m	cum	21,471.03	21,557.36	20,115.88	20,474.90
4.09.03.05.02	For height above 5m	cum	22,759.29	22,850.80	21,322.83	21,703.39
4.09.03.06	For Arch/ inclined girder of bridges					
4.09.03.06.01	For height up to 5m	cum	28,330.60	28,424.57	26,524.25	26,979.93
4.09.03.06.02	For height above 5m to 10m	cum	31,871.92	31,977.64	29,839.78	30,352.42
4.09.03.06.03	For height above 10m to 15m	cum	35,413.25	35,530.71	33,155.31	33,724.91
4.09.03.06.04	For height above 15m to 20m	cum	38,954.57	39,083.78	36,470.84	37,097.40
4.09.03.06.05	For height above 20m	cum	39,662.84	39,794.40	37,133.95	37,771.90
4.09.03.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	26,425.88	26,532.13	24,758.00	25,199.88
4.09.03.08	For cast-in-situ/ pre-cast railing and rail post of bridges & culverts					
4.09.03.08.01	For pre-cast railing and rail post	cum	20,691.73	20,645.63	19,726.39	19,939.16
4.09.03.08.02	For cast-in-situ railing and rail post	cum	18,285.72	18,244.97	17,432.62	17,620.65
4.09.03.09	For Pre-cast paving slab for bridge footpath	cum	18,002.63	18,075.02	16,866.39	17,167.42
4.09.04	RCC-25SCBP: Reinforced cement concrete work with minimum cement content relates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant and pumping using line pump or boom placer, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.04.01	For pile caps, abutment base, facing elements of Reinforced/ Mechanically Stabilized Earth Structure, bottom slab of Box Culvert etc.	cum	18,043.87	18,130.00	16,959.18	17,260.20
4.09.04.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges and vertical members of box culverts					
4.09.04.02.01	For height up to 5m	cum	18,871.57	18,961.65	17,737.12	18,051.95
4.09.04.02.02	For height above 5m to 10m	cum	23,589.46	23,702.06	22,171.40	22,564.94
4.09.04.02.03	For height above 10m to 15m	cum	28,307.35	28,442.48	26,605.68	27,077.93

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.04.02.04	For height above 15m to 20m	cum	33,025.24	33,182.89	31,039.96	31,590.92
4.09.04.02.05	For height above 20m	cum	33,968.82	34,130.97	31,926.81	32,493.52
4.09.04.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.04.03.01	For height up to 5 m	cum	25,658.71	25,781.19	24,116.26	24,544.32
4.09.04.03.02	For height above 5m to 10m	cum	28,481.17	28,617.12	26,769.05	27,244.20
4.09.04.03.03	For height above 10m to 15m	cum	31,303.63	31,453.06	29,421.84	29,944.07
4.09.04.03.04	For height above 15m to 20m	cum	34,126.08	34,288.99	32,074.62	32,643.95
4.09.04.03.05	For height above 20m	cum	36,948.54	37,124.92	34,727.41	35,343.83
4.09.04.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.04.04.01	For height up to 5m	cum	27,108.89	27,220.20	25,463.22	25,905.09
4.09.04.04.02	For height above 5m to 10m	cum	29,142.06	29,261.71	27,372.96	27,847.97
4.09.04.04.03	For height above 10m to 15m	cum	31,175.23	31,303.22	29,282.70	29,790.85
4.09.04.04.04	For height above 15m to 20m	cum	33,208.40	33,344.74	31,192.44	31,733.73
4.09.04.04.05	For height above 20m	cum	35,241.56	35,386.25	33,102.18	33,676.62
4.09.04.05	For top slab including curb and wheel guard of box culvert					
4.09.04.05.01	For height up to 5 m	cum	21,520.21	21,622.94	20,226.54	20,585.56
4.09.04.05.02	For height above 5m	cum	22,811.42	22,920.31	21,440.13	21,820.69
4.09.04.06	For Arch/ inclined girder of bridges					
4.09.04.06.01	For height up to 5 m	cum	28,393.02	28,507.80	26,664.70	27,120.39
4.09.04.06.02	For height above 5m to 10m	cum	31,942.15	32,071.28	29,997.79	30,510.43
4.09.04.06.03	For height above 10m to 15m	cum	35,491.28	35,634.75	33,330.88	33,900.48
4.09.04.06.04	For height above 15m to 20m	cum	39,040.41	39,198.23	36,663.97	37,290.53
4.09.04.06.05	For height above 20m	cum	39,750.23	39,910.92	37,330.58	37,968.54
4.09.04.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	26,486.41	26,612.84	24,894.20	25,336.08
4.09.04.08	For cast-in-situ/ pre-cast railing and rail post of bridges & culverts					
4.09.04.08.01	For pre-cast railing and rail post	cum	20,740.54	20,710.70	19,836.20	20,048.97
4.09.04.08.02	For cast-in-situ railing and rail post	cum	18,328.85	18,302.48	17,529.66	17,717.70
4.09.04.09	For Pre-cast paving slab for bridge footpath	cum	18,043.87	18,130.00	16,959.18	17,260.20

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.05	RCC-30SCCM: Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average strength, f'cr = 38.5 MPa and satisfying a compressive strength f'c = 30 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N / ASTM C150 Type I, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by the concerned District Quality Control Laboratory or any other reputed laboratory approved by the competent authority before execution of the work. [Using Concrete Mixture Machine and retail rate of Cement]					
4.09.05.01	For foundation of Pier & Abutment of Bridges and Box Culverts	cum	19,122.90	19,195.29	17,986.66	18,287.69
4.09.05.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges and vertical members of box culverts					
4.09.05.02.01	For height up to 5m	cum	20,000.10	20,075.81	18,811.74	19,126.57
4.09.05.02.02	For height above 5m to 10m	cum	25,000.12	25,094.76	23,514.67	23,908.22
4.09.05.02.03	For height above 10m to 15m	cum	30,000.15	30,113.71	28,217.61	28,689.86
4.09.05.02.04	For height above 15m to 20m	cum	35,000.17	35,132.66	32,920.54	33,471.50
4.09.05.02.05	For height above 20m	cum	36,000.18	36,136.45	33,861.13	34,427.83
4.09.05.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.05.03.01	For height up to 5m	cum	27,193.12	27,296.05	25,577.36	26,005.43
4.09.05.03.02	For height above 5m to 10m	cum	30,184.36	30,298.62	28,390.87	28,866.03
4.09.05.03.03	For height above 10m to 15m	cum	33,175.60	33,301.19	31,204.38	31,726.62
4.09.05.03.04	For height above 15m to 20m	cum	36,166.85	36,303.75	34,017.89	34,587.22
4.09.05.03.05	For height above 20m	cum	39,158.09	39,306.32	36,831.40	37,447.82
4.09.05.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.05.04.01	For height up to 5m	cum	28,692.80	28,783.92	26,971.45	27,413.33
4.09.05.04.02	For height above 5m to 10m	cum	30,844.76	30,942.72	28,994.31	29,469.33
4.09.05.04.03	For height above 10m to 15m	cum	32,996.72	33,101.51	31,017.17	31,525.33
4.09.05.04.04	For height above 15m to 20m	cum	35,148.68	35,260.31	33,040.03	33,581.33
4.09.05.04.05	For height above 20m	cum	37,300.64	37,419.10	35,062.89	35,637.33
4.09.05.05	For top slab including curb and wheel guard of box culvert					
4.09.05.05.01	For height up to 5m	cum	22,807.13	22,893.46	21,451.98	21,811.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.05.05.02	For height above 5m	cum	24,175.56	24,267.07	22,739.10	23,119.67
4.09.05.06	For Arch/ inclined girder of bridges					
4.09.05.06.01	For height up to 5m	cum	29,714.30	29,818.67	27,933.96	28,389.64
4.09.05.06.02	For height above 5m to 10m	cum	33,428.59	33,546.01	31,425.70	31,938.35
4.09.05.06.03	For height above 10m to 15m	cum	37,142.88	37,273.34	34,917.45	35,487.05
4.09.05.06.04	For height above 15m to 20m	cum	40,857.16	41,000.68	38,409.19	39,035.76
4.09.05.06.05	For height above 20m	cum	41,600.02	41,746.14	39,107.54	39,745.50
4.09.05.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	28,070.32	28,176.57	26,402.44	26,844.31
4.09.05.08	For cast-in-situ/ pre-cast railing and rail post of bridges & box culverts					
4.09.05.08.01	For pre-cast railing and rail post	cum	22,017.56	21,971.46	21,052.22	21,264.99
4.09.05.08.02	For cast-in-situ railing and rail post	cum	19,457.38	19,416.64	18,604.28	18,792.32
4.09.05.09	For Pre-cast paving slab for bridge footpath	cum	19,122.90	19,195.29	17,986.66	18,287.69
4.09.06	RCC-30SCBP: Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 38.5 MPa and satisfying a specified compressive strength, f'c = 30 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N / ASTM C150 Type I, high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.50 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant, pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, placing, binding etc. is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by the concerned District Quality Control Laboratory or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.06.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	18,956.23	19,042.36	17,871.54	18,172.57
4.09.06.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges					
4.09.06.02.01	For height up to 5 m	cum	19,825.78	19,915.87	18,691.33	19,006.17
4.09.06.02.02	For height above 5m to 10m	cum	24,782.23	24,894.83	23,364.17	23,757.71
4.09.06.02.03	For height above 10m to 15m	cum	29,738.67	29,873.80	28,037.00	28,509.25
4.09.06.02.04	For height above 15m to 20m	cum	34,695.12	34,852.77	32,709.84	33,260.80
4.09.06.02.05	For height above 20m	cum	35,686.41	35,848.56	33,644.40	34,211.10

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.06.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.06.03.01	For Height up to 5m	cum	26,956.11	27,078.59	25,413.66	25,841.72
4.09.06.03.02	For height above 5m to 10m	cum	29,651.72	29,786.45	27,955.02	28,425.89
4.09.06.03.03	For height above 10m to 15m	cum	32,347.33	32,494.31	30,496.39	31,010.07
4.09.06.03.04	For height above 15m to 20m	cum	35,042.94	35,202.17	33,037.75	33,594.24
4.09.06.03.05	For height above 20m	cum	37,738.55	37,910.03	35,579.12	36,178.41
4.09.06.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.06.04.01	For Height up to 5m	cum	28,448.14	28,559.45	26,802.47	27,244.34
4.09.06.04.02	For height above 5m to 10m	cum	30,297.27	30,415.81	28,544.63	29,015.22
4.09.06.04.03	For height above 10m to 15m	cum	32,146.40	32,272.17	30,286.79	30,786.10
4.09.06.04.04	For height above 15m to 20m	cum	33,995.53	34,128.54	32,028.95	32,556.98
4.09.06.04.05	For height above 20m	cum	35,844.66	35,984.90	33,771.11	34,327.87
4.09.06.05	For top slab including curb and wheel guard of box culvert					
4.09.06.05.01	For height up to 5m	cum	22,608.35	22,711.08	21,314.68	21,673.70
4.09.06.05.02	For height above 5m	cum	23,851.81	23,960.19	22,486.99	22,865.76
4.09.06.06	For Arch/ inclined girder of bridges					
4.09.06.06.01	For Height up to 5m	cum	29,323.00	29,436.04	27,620.87	28,069.65
4.09.06.06.02	For height above 5m to 10m	cum	32,988.38	33,115.55	31,073.48	31,578.35
4.09.06.06.03	For height above 10m to 15m	cum	36,653.75	36,795.05	34,526.09	35,087.06
4.09.06.06.04	For height above 15m to 20m	cum	40,319.13	40,474.56	37,978.69	38,595.76
4.09.06.06.05	For height above 20m	cum	41,052.20	41,210.46	38,669.22	39,297.50
4.09.06.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	27,825.66	27,952.09	26,233.45	26,675.32
4.09.06.08	For Box Girder and Balanced Cantilever					
4.09.06.08.01	For height up to 5m	cum	29,774.12	29,888.90	28,045.80	28,501.49
4.09.06.08.02	For height above 5m to 10m	cum	33,495.89	33,625.02	31,551.53	32,064.17
4.09.06.08.03	For height above 10m to 15m	cum	37,217.65	37,361.13	35,057.26	35,626.86
4.09.06.08.04	For height above 15m to 20m	cum	40,939.42	41,097.24	38,562.98	39,189.54
4.09.06.08.05	For height above 20m	cum	41,683.77	41,844.46	39,264.13	39,902.08

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.07	RCC-35SCBP: Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 45 MPa and satisfying a specified compressive strength, f'c = 35 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N / ASTM C150 Type I, high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant, pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, placing, binding etc. is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.07.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	20,060.04	20,146.18	18,975.35	19,276.38
4.09.07.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges					
4.09.07.02.01	For height up to 5 m	cum	20,980.23	21,070.31	19,845.78	20,160.62
4.09.07.02.02	For height above 5m to 10m	cum	26,225.29	26,337.89	24,807.23	25,200.77
4.09.07.02.03	For height above 10m to 15m	cum	31,470.34	31,605.47	29,768.67	30,240.92
4.09.07.02.04	For height above 15m to 20m	cum	36,715.40	36,873.05	34,730.12	35,281.08
4.09.07.02.05	For height above 20m	cum	37,764.41	37,926.56	35,722.41	36,289.11
4.09.07.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.07.03.01	For height up to 5 m	cum	27,605.56	27,724.10	26,112.87	26,527.13
4.09.07.03.02	For height above 5m to 10m	cum	30,228.09	30,357.89	28,593.59	29,047.20
4.09.07.03.03	For height above 10m to 15m	cum	32,850.62	32,991.67	31,074.31	31,567.28
4.09.07.03.04	For height above 15m to 20m	cum	35,473.15	35,625.46	33,555.04	34,087.36
4.09.07.03.05	For height above 20m	cum	38,095.68	38,259.25	36,035.76	36,607.43
4.09.07.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.07.04.01	For height up to 5 m	cum	29,128.78	29,236.60	27,534.53	27,962.59
4.09.07.04.02	For height above 5m to 10m	cum	31,022.15	31,136.98	29,324.27	29,780.16
4.09.07.04.03	For height above 10m to 15m	cum	32,915.52	33,037.36	31,114.02	31,597.73
4.09.07.04.04	For height above 15m to 20m	cum	34,808.89	34,937.74	32,903.76	33,415.30
4.09.07.04.05	For height above 20m	cum	36,702.27	36,838.12	34,693.51	35,232.87
4.09.07.05	For Arch/ inclined girder of bridges					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.07.05.01	For height up to 5 m	cum	30,492.15	30,603.45	28,816.21	29,258.08
4.09.07.05.02	For height above 5m to 10m	cum	34,303.67	34,428.89	32,418.23	32,915.34
4.09.07.05.03	For height above 10m to 15m	cum	38,115.19	38,254.32	36,020.26	36,572.60
4.09.07.05.04	For height above 15m to 20m	cum	41,926.71	42,079.75	39,622.29	40,229.86
4.09.07.05.05	For height above 20m	cum	42,689.01	42,844.84	40,342.69	40,961.31
4.09.07.06	For Box Girder, Segmental Construction and Balanced Cantilever					
4.09.07.06.01	For height up to 5m	cum	30,968.59	31,081.63	29,266.46	29,715.24
4.09.07.06.02	For height above 5m to 10m	cum	34,839.67	34,966.84	32,924.77	33,429.64
4.09.07.06.03	For height above 10m to 15m	cum	38,710.74	38,852.04	36,583.08	37,144.05
4.09.07.06.04	For height above 15m to 20m	cum	42,581.82	42,737.25	40,241.38	40,858.45
4.09.07.06.05	For height above 20m	cum	43,356.03	43,514.29	40,973.04	41,601.33
4.09.08	RCC-40SCBP: Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 50 MPa and satisfying a specified compressive strength, f'c = 40 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N / ASTM C150 Type I, high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant, pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, placing, binding etc. is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.08.01	For foundation of Pier & Abutment of bridges	cum	20,374.83	20,460.96	19,290.14	19,591.16
4.09.08.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges					
4.09.08.02.01	For height up to 5m	cum	21,309.45	21,399.54	20,175.01	20,489.84
4.09.08.02.02	For height above 5m to 10m	cum	26,636.82	26,749.42	25,218.76	25,612.30
4.09.08.02.03	For height above 10m to 15m	cum	31,964.18	32,099.31	30,262.51	30,734.76
4.09.08.02.04	For height above 15m to 20m	cum	37,291.55	37,449.19	35,306.26	35,857.22
4.09.08.02.05	For height above 20m	cum	38,357.02	38,519.17	36,315.01	36,881.71
4.09.08.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.08.03.01	For height up to 5m	cum	28,260.00	28,378.53	26,767.30	27,181.56
4.09.08.03.02	For height above 5m to 10m	cum	30,944.70	31,074.49	29,310.20	29,763.81

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.08.03.03	For height above 14m to 15m	cum	33,629.40	33,770.45	31,853.09	32,346.06
4.09.08.03.04	For height above 19m to 20m	cum	36,314.10	36,466.41	34,395.99	34,928.31
4.09.08.03.05	For height above 20m	cum	38,998.80	39,162.37	36,938.88	37,510.55
4.09.08.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.08.04.01	For height up to 5m	cum	29,576.41	29,684.24	27,982.16	28,410.23
4.09.08.04.02	For height above 5m to 10m	cum	31,351.00	31,465.29	29,661.09	30,114.84
4.09.08.04.03	For height above 10m to 15m	cum	33,125.58	33,246.34	31,340.02	31,819.45
4.09.08.04.04	For height above 15m to 20m	cum	34,900.17	35,027.40	33,018.95	33,524.07
4.09.08.04.05	For height above 20m	cum	36,674.75	36,808.45	34,697.88	35,228.68
4.09.08.05	For Arch/ inclined girder of bridges					
4.09.08.05.01	For height up to 5m	cum	30,470.56	30,580.13	28,820.81	29,255.77
4.09.08.05.02	For height above 5m to 10m	cum	34,279.39	34,402.64	32,423.41	32,912.75
4.09.08.05.03	For height above 10m to 15m	cum	38,088.21	38,225.16	36,026.01	36,569.72
4.09.08.05.04	For height above 15m to 20m	cum	41,897.03	42,047.67	39,628.61	40,226.69
4.09.08.05.05	For height above 20m	cum	42,658.79	42,812.18	40,349.13	40,958.08
4.09.08.06	For Box Girder, Segmental Construction and Balanced Cantilever					
4.09.08.06.01	For height up to 5m	cum	31,437.88	31,550.92	29,735.75	30,184.53
4.09.08.06.02	For height above 5m to 10m	cum	35,367.62	35,494.79	33,452.72	33,957.60
4.09.08.06.03	For height above 10m to 15m	cum	39,297.36	39,438.65	37,169.69	37,730.66
4.09.08.06.04	For height above 15m to 20m	cum	43,227.09	43,382.52	40,886.66	41,503.73
4.09.08.06.05	For height above 20m	cum	44,013.04	44,171.29	41,630.05	42,258.34
4.09.09	Marine Concrete_RCC_30SCCM: Reinforced cement concrete work for Marine region with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average strength, f'cr = 40.0 MPa and satisfying a compressive strength f'c = 30 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and Portland Composite cement conforming to BDS EN 197-1:2003 CEM II/B-V (70% CEM I + 30% Siliceous Fly Ash) or CEM III/A (60% CEM I + 40% Blast-furnace Slag), high range water reducing admixture of complying type F or G under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture & Drinkable water with storage reservior for Concreteing is included in this unit rate. The Mix Design shall have to be approved by the Central Quality Control Laboratory(CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Concrete Mixture Machine and retail rate of Cement]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.09.01	For foundation of Pier & Abutment of Bridges and Box Culverts	cum	19,898.18	19,970.57	18,761.94	19,062.97
4.09.09.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges and vertical members of box culverts					
4.09.09.02.01	For height up to 5m	cum	20,810.94	20,886.65	19,622.58	19,937.42
4.09.09.02.02	For height above 5m to 10m	cum	26,013.68	26,108.31	24,528.23	24,921.77
4.09.09.02.03	For height above 10m to 15m	cum	31,216.42	31,329.98	29,433.87	29,906.13
4.09.09.02.04	For height above 15m to 20m	cum	36,419.15	36,551.64	34,339.52	34,890.48
4.09.09.02.05	For height above 20m	cum	37,459.70	37,595.97	35,320.65	35,887.35
4.09.09.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.09.03.01	For height up to 5m	cum	28,295.58	28,398.52	26,679.83	27,107.89
4.09.09.03.02	For height above 5m to 10m	cum	31,408.10	31,522.35	29,614.61	30,089.76
4.09.09.03.03	For height above 10m to 15m	cum	34,520.61	34,646.19	32,549.39	33,071.63
4.09.09.03.04	For height above 15m to 20m	cum	37,633.12	37,770.03	35,484.17	36,053.50
4.09.09.03.05	For height above 20m	cum	40,745.64	40,893.86	38,418.95	39,035.36
4.09.09.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.09.04.01	For height up to 5m	cum	29,830.83	29,921.95	28,109.48	28,551.35
4.09.09.04.02	For height above 5m to 10m	cum	32,068.14	32,166.10	30,217.69	30,692.71
4.09.09.04.03	For height above 10m to 15m	cum	34,305.45	34,410.24	32,325.90	32,834.06
4.09.09.04.04	For height above 15m to 20m	cum	36,542.76	36,654.39	34,434.11	34,975.41
4.09.09.04.05	For height above 20m	cum	38,780.07	38,898.53	36,542.32	37,116.76
4.09.09.05	For top slab including curb and wheel guard of box culvert					
4.09.09.05.01	For height up to 5m	cum	23,731.78	23,818.11	22,376.63	22,735.65
4.09.09.05.02	For height above 5m	cum	25,155.68	25,247.20	23,719.23	24,099.79
4.09.09.06	For Arch/ inclined girder of bridges					
4.09.09.06.01	For height up to 5m	cum	30,887.89	30,992.26	29,107.55	29,563.23
4.09.09.06.02	For height above 5m to 10m	cum	34,748.88	34,866.30	32,745.99	33,258.64
4.09.09.06.03	For height above 10m to 15m	cum	38,609.86	38,740.33	36,384.44	36,954.04
4.09.09.06.04	For height above 15m to 20m	cum	42,470.85	42,614.36	40,022.88	40,649.44
4.09.09.06.05	For height above 20m	cum	43,243.05	43,389.17	40,750.57	41,388.52
4.09.09.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	29,208.34	29,314.60	27,540.47	27,982.34
4.09.09.08	For cast-in-situ/ pre-cast railing and rail post of bridges & box culverts					
4.09.09.08.01	For pre-cast railing and rail post	cum	22,935.10	22,888.99	21,969.75	22,182.52
4.09.09.08.02	For cast-in-situ railing and rail post	cum	20,268.22	20,227.48	19,415.13	19,603.16
4.09.09.09	For Pre-cast paving slab for bridge footpath	cum	19,898.18	19,970.57	18,761.94	19,062.97

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.10	Marine Concrete_RCC_30SCBP: Reinforced cement concrete work for Marine region with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 40.0 MPa and satisfying a specified compressive strength, f'c = 30 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and Portland Composite cement conforming to BDS EN 197-1:2003 CEM II/B-V (70% CEM I + 30% Siliceous Fly Ash) or CEM III/A (60% CEM I + 40% Blast-furnace Slag), high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.50 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant, pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, placing, binding etc. is not included but the cost of admixture & Drinkable water with storage reservior for Concreteing is included in this unit rate. The Mix Design report shall have to be approved by the Central Quality Control Laboratory (CQCL),LGED or any other reputed laboratory approved by the competent authority before execution of the work [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.10.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	20,018.81	20,104.94	18,934.11	19,235.14
4.09.10.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges					
4.09.10.02.01	For height up to 5 m	cum	20,937.10	21,027.18	19,802.65	20,117.49
4.09.10.02.02	For height above 5m to 10m	cum	26,171.37	26,283.98	24,753.31	25,146.86
4.09.10.02.03	For height above 10m to 15m	cum	31,405.65	31,540.77	29,703.98	30,176.23
4.09.10.02.04	For height above 15m to 20m	cum	36,639.92	36,797.57	34,654.64	35,205.60
4.09.10.02.05	For height above 20m	cum	37,686.78	37,848.93	35,644.77	36,211.47
4.09.10.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.10.03.01	For height up to 5 m	cum	28,467.11	28,589.59	26,924.66	27,352.72
4.09.10.03.02	For height above 5m to 10m	cum	31,313.82	31,448.55	29,617.12	30,087.99
4.09.10.03.03	For height above 10m to 15m	cum	34,160.53	34,307.51	32,309.59	32,823.27
4.09.10.03.04	For height above 15m to 20m	cum	37,007.24	37,166.47	35,002.05	35,558.54
4.09.10.03.05	For height above 20m	cum	39,853.95	40,025.43	37,694.52	38,293.81
4.09.10.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.10.04.01	For height up to 5 m	cum	30,007.89	30,119.19	28,362.21	28,804.08
4.09.10.04.02	For height above 5m to 10m	cum	31,808.36	31,926.34	30,063.94	30,532.33
4.09.10.04.03	For height above 10m to 15m	cum	33,908.91	34,034.68	32,049.29	32,548.61
4.09.10.04.04	For height above 15m to 20m	cum	35,709.39	35,841.83	33,751.03	34,276.86

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.10.04.05	For height above 20m	cum	37,809.94	37,950.18	35,736.38	36,293.14
4.09.10.05	For top slab including curb and wheel guard of box culvert					
4.09.10.05.01	For height up to 5 m	cum	23,875.64	23,978.37	22,581.97	22,940.99
4.09.10.05.02	For height above 5m	cum	25,188.80	25,297.18	23,823.98	24,202.75
4.09.10.06	For Arch/ inclined girder of bridges					
4.09.10.06.01	For height up to 5 m	cum	30,907.11	31,020.15	29,204.98	29,653.76
4.09.10.06.02	For height above 5m to 10m	cum	34,770.50	34,897.67	32,855.60	33,360.48
4.09.10.06.03	For height above 10m to 15m	cum	38,633.89	38,775.19	36,506.23	37,067.20
4.09.10.06.04	For height above 15m to 20m	cum	42,497.28	42,652.71	40,156.85	40,773.92
4.09.10.06.05	For height above 20m	cum	43,269.96	43,428.22	40,886.97	41,515.26
4.09.10.07	For RCC deck slab/Cross girder/diaphragm supported on PSC Girder using suspended type staging/ centering and shuttering for any height	cum	29,385.40	29,511.84	27,793.19	28,235.07
4.09.10.08	For Box Girder and Balanced Cantilever					
4.09.10.08.01	For height up to 5 m	cum	31,382.61	31,497.39	29,654.29	30,109.97
4.09.10.08.02	For height above 5m to 10m	cum	35,305.43	35,434.56	33,361.07	33,873.72
4.09.10.08.03	For height above 10m to 15m	cum	39,228.26	39,371.73	37,067.86	37,637.46
4.09.10.08.04	For height above 15m to 20m	cum	43,151.09	43,308.91	40,774.65	41,401.21
4.09.10.08.05	For height above 20m	cum	43,935.65	44,096.34	41,516.00	42,153.96
4.09.11	Marine Concrete_RCC_35SCBP: Reinforced cement concrete work for Marine region with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 45 MPa and satisfying a specified compressive strength, f'c = 35 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and Portland Composite Cement conforming to BDS EN 197-1:2003 CEM II/B-V (70% CEM I + 30% Siliceous Fly Ash) or CEM III/A (60% CEM I + 40% Blast-furnace Slag), high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.50 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 including breaking chips, screening through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in mechanized batch mix plant, pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, placing, binding etc. is not included but the cost of admixture & Drinkable water with storage reservior for Concreteing is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.09.11.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	20,047.67	20,133.81	18,962.98	19,264.01

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.09.11.02	For diaphragm walls, wing walls, piers, columns, projected pile cap above water level, pier caps, abutments of bridges					
4.09.11.02.01	For height up to 5 m	cum	20,967.29	21,057.37	19,832.84	20,147.68
4.09.11.02.02	For height above 5m to 10m	cum	26,209.11	26,321.72	24,791.05	25,184.60
4.09.11.02.03	For height above 10m to 15m	cum	31,450.94	31,586.06	29,749.26	30,221.51
4.09.11.02.04	For height above 15m to 20m	cum	36,692.76	36,850.40	34,707.47	35,258.43
4.09.11.02.05	For height above 20m	cum	37,741.12	37,903.27	35,699.12	36,265.82
4.09.11.03	For solid slab type super-structure including cantilever, side walk, curb and wheel guard of bridges					
4.09.11.03.01	For height up to 5 m	cum	27,588.54	27,707.07	26,095.84	26,510.10
4.09.11.03.02	For height above 5m to 10m	cum	30,209.45	30,339.24	28,574.95	29,028.56
4.09.11.03.03	For height above 10m to 15m	cum	32,830.36	32,971.41	31,054.05	31,547.02
4.09.11.03.04	For height above 15m to 20m	cum	35,451.27	35,603.59	33,533.16	34,065.48
4.09.11.03.05	For height above 20m	cum	38,072.18	38,235.76	36,012.27	36,583.94
4.09.11.04	For T-girder & slab type super-structure including cross girders, side walk, curb and wheel guard of bridges					
4.09.11.04.01	For height up to 5 m	cum	29,111.19	29,219.01	27,516.94	27,945.00
4.09.11.04.02	For height above 5m to 10m	cum	31,003.42	31,118.25	29,305.54	29,761.43
4.09.11.04.03	For height above 10m to 15m	cum	32,895.64	33,017.48	31,094.14	31,577.85
4.09.11.04.04	For height above 15m to 20m	cum	34,787.87	34,916.72	32,882.74	33,394.28
4.09.11.04.05	For height above 20m	cum	36,680.10	36,815.95	34,671.34	35,210.70
4.09.11.05	For Arch/ inclined girder of bridges					
4.09.11.05.01	For height up to 5 m	cum	30,473.99	30,585.29	28,798.05	29,239.92
4.09.11.05.02	For height above 5m to 10m	cum	34,283.24	34,408.46	32,397.80	32,894.91
4.09.11.05.03	For height above 10m to 15m	cum	38,092.49	38,231.62	35,997.56	36,549.90
4.09.11.05.04	For height above 15m to 20m	cum	41,901.74	42,054.78	39,597.32	40,204.89
4.09.11.05.05	For height above 20m	cum	42,663.59	42,819.41	40,317.27	40,935.89
4.09.11.06	For Box Girder, Segmental Construction and Balanced Cantilever					
4.09.11.06.01	For height up to 5 m	cum	30,950.15	31,063.19	29,248.02	29,696.79
4.09.11.06.02	For height above 5m to 10m	cum	34,818.92	34,946.09	32,904.02	33,408.89
4.09.11.06.03	For height above 10m to 15m	cum	38,687.69	38,828.99	36,560.02	37,120.99
4.09.11.06.04	For height above 15m to 20m	cum	42,556.46	42,711.89	40,216.02	40,833.09
4.09.11.06.05	For height above 20m	cum	43,330.21	43,488.46	40,947.22	41,575.51

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-10: Pre-Stressed Concrete (PSC) Work, HT Strand and Steel Anchorage						
4.10.01	PSC-35SCCM: Providing and laying Cement Concrete in Pre-stressed Concrete works with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 45 MPa and satisfying a specified compressive strength, f'c = 35 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 , including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Concrete Mixture Machine and retail rate of Cement]					
4.10.01.01	For Solid Slab/ voided slab Super-structure.					
4.10.01.01.01	For height up to 5 m	cum	28,444.05	28,524.74	26,817.99	27,232.24
4.10.01.01.02	For height above 5 m to 10 m	cum	31,288.45	31,377.22	29,499.79	29,955.47
4.10.01.01.03	For height above 10 m to 15 m	cum	34,132.86	34,229.69	32,181.59	32,678.69
4.10.01.01.04	For height above 15 m to 20 m	cum	36,977.26	37,082.17	34,863.38	35,401.92
4.10.01.01.05	For height above 20 m	cum	39,821.66	39,934.64	37,545.18	38,125.14
4.10.01.02	For I-Girder/T-Girder including casting of girders on staging at site or launching of precast girders by launching truss.					
4.10.01.02.01	For height up to 5 m	cum	34,132.86	34,229.69	32,181.59	32,678.69
4.10.01.02.02	For height above 5 m to 10 m	cum	36,180.83	36,283.47	34,112.48	34,639.41
4.10.01.02.03	For height above 10 m to 15 m	cum	38,228.80	38,337.26	36,043.38	36,600.14
4.10.01.02.04	For height above 15 m to 20 m	cum	40,276.77	40,391.04	37,974.27	38,560.86
4.10.01.02.05	For height above 20 m	cum	42,324.74	42,444.82	39,905.17	40,521.58
4.10.01.03	For cast-in-situ box girder, segmental construction and balanced cantilever.					
4.10.01.03.01	For height up to 5 m	cum	37,925.39	38,032.99	35,757.32	36,309.66
4.10.01.03.02	For height above 5 m to 10 m	cum	40,390.55	40,505.14	38,081.54	38,669.79
4.10.01.03.03	For height above 10 m to 15 m	cum	42,855.70	42,977.28	40,405.77	41,029.91
4.10.01.03.04	For height above 15 m to 20 m	cum	45,320.85	45,449.43	42,729.99	43,390.04
4.10.01.03.05	For height above 20 m	cum	47,786.00	47,921.57	45,054.22	45,750.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.02	PSC-35SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete works with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 45 MPa and satisfying a specified compressive strength, f'c = 35 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 125mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or or any other reputed laboratory approved by the competent authority before execution of the workk. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.10.02.01	For Solid Slab/voided slab Super-structure.					
4.10.02.01.01	For height up to 5 m	cum	28,448.30	28,547.92	26,893.18	27,307.44
4.10.02.01.02	For height above 5 m to 10 m	cum	31,293.13	31,402.71	29,582.50	30,038.18
4.10.02.01.03	For height above 10 m to 15 m	cum	34,137.96	34,257.50	32,271.82	32,768.93
4.10.02.01.04	For height above 15 m to 20 m	cum	36,982.79	37,112.29	34,961.14	35,499.67
4.10.02.01.05	For height above 20 m	cum	39,827.62	39,967.08	37,650.45	38,230.41
4.10.02.02	For I-Girder/T-Girder including casting of girders on staging at site or launching of precast girders by launching truss.					
4.10.02.02.01	For height up to 5 m	cum	34,137.96	34,257.50	32,271.82	32,768.93
4.10.02.02.02	For height above 5 m to 10 m	cum	36,186.24	36,312.95	34,208.13	34,735.06
4.10.02.02.03	For height above 10 m to 15 m	cum	38,234.52	38,368.40	36,144.44	36,701.20
4.10.02.02.04	For height above 15 m to 20 m	cum	40,282.80	40,423.85	38,080.75	38,667.33
4.10.02.02.05	For height above 20 m	cum	42,331.07	42,479.30	40,017.05	40,633.47
4.10.02.03	For cast-in-situ box girder, segmental construction and balanced cantilever.					
4.10.02.03.01	For height up to 5 m	cum	37,931.07	38,063.89	35,857.58	36,409.92
4.10.02.03.02	For height above 5 m to 10 m	cum	40,396.59	40,538.04	38,188.32	38,776.56
4.10.02.03.03	For height above 10 m to 15 m	cum	42,862.11	43,012.20	40,519.06	41,143.21
4.10.02.03.04	For height above 15 m to 20 m	cum	45,327.63	45,486.35	42,849.80	43,509.85
4.10.02.03.05	For height above 20 m	cum	47,793.15	47,960.50	45,180.55	45,876.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.03	PSC-40SCRDM: Providing and laying Cement Concrete in Pre-stressed Concrete works with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 50 MPa and satisfying a specified compressive strength, f'c = 40 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, high range water reducing admixture of complying type F or G under ASTM C 494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 , including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in Reversible Drum Mixer/ Batch Mix Plant, maintaining allowable slump of 125mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Reversible Drum Mixer/ Batch Mix Plant and retail rate of Cement]					
4.10.03.01	For Solid Slab/voided slab Super-structure					
4.10.03.01.01	For height up to 5 m	cum	29,623.31	29,704.01	27,997.25	28,411.51
4.10.03.01.02	For height above 5 m to 10 m	cum	32,585.64	32,674.41	30,796.98	31,252.66
4.10.03.01.03	For height above 10 m to 15 m	cum	35,547.97	35,644.81	33,596.70	34,093.81
4.10.03.01.04	For height above 15 m to 20 m	cum	38,510.30	38,615.21	36,396.43	36,934.96
4.10.03.01.05	For height above 20 m	cum	41,472.64	41,585.61	39,196.15	39,776.11
4.10.03.02	For I-Girder/T-Girder including casting of girders on staging at site or launching of precast girders by launching truss.					
4.10.03.02.01	For height up to 5 m	cum	35,547.97	35,644.81	33,596.70	34,093.81
4.10.03.02.02	For height above 5 m to 10 m	cum	37,680.85	37,783.50	35,612.51	36,139.44
4.10.03.02.03	For height above 10 m to 15 m	cum	39,813.73	39,922.19	37,628.31	38,185.07
4.10.03.02.04	For height above 15 m to 20 m	cum	41,946.61	42,060.88	39,644.11	40,230.70
4.10.03.02.05	For height above 20 m	cum	44,079.49	44,199.57	41,659.91	42,276.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.04	PSC-40SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete works with minimum cement content and maximum water cement ratio as specified by the laboratory through mix design having minimum required average compressive strength, f'cr = 50 MPa and satisfying a specified compressive strength, f'c = 40 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.10.04.01	For Solid Slab/voided slab Super-structure.					
4.10.04.01.01	For height up to 5 m	cum	28,888.68	28,988.30	27,333.56	27,747.82
4.10.04.01.02	For height above 5 m to 10 m	cum	31,777.55	31,887.13	30,066.92	30,522.60
4.10.04.01.03	For height above 10 m to 15 m	cum	34,666.42	34,785.96	32,800.27	33,297.38
4.10.04.01.04	For height above 15 m to 20 m	cum	37,555.29	37,684.79	35,533.63	36,072.16
4.10.04.01.05	For height above 20 m	cum	40,444.15	40,583.62	38,266.99	38,846.95
4.10.04.02	For I-Girder/T-Girder including casting of girders on staging at site or launching of precast girders by launching truss.					
4.10.04.02.01	For height up to 5 m	cum	34,666.42	34,785.96	32,800.27	33,297.38
4.10.04.02.02	For height above 5 m to 10 m	cum	36,746.40	36,873.11	34,768.29	35,295.22
4.10.04.02.03	For height above 10 m to 15 m	cum	38,826.39	38,960.27	36,736.31	37,293.07
4.10.04.02.04	For height above 15 m to 20 m	cum	40,906.37	41,047.43	38,704.32	39,290.91
4.10.04.02.05	For height above 20 m	cum	42,986.36	43,134.59	40,672.34	41,288.75
4.10.04.03	For cast-in-situ box girder, segmental construction and balanced cantilever.					
4.10.04.03.01	For height up to 5 m	cum	38,518.24	38,651.06	36,444.75	36,997.09
4.10.04.03.02	For height above 5 m to 10 m	cum	41,021.93	41,163.38	38,813.66	39,401.90
4.10.04.03.03	For height above 10 m to 15 m	cum	43,525.61	43,675.70	41,182.57	41,806.71
4.10.04.03.04	For height above 15 m to 20 m	cum	46,029.30	46,188.02	43,551.48	44,211.52
4.10.04.03.05	For height above 20 m	cum	48,532.99	48,700.34	45,920.38	46,616.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.05	PSC-45SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete workswith minimum cement content and maximum water cement ratio as specified by the laboratory having minimum required average compressive strength, f'cr = 55 MPa and satisfying a specified compressive strength, f'c = 45 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, silica fume conforming to ASTM C 1240, high range water reducing admixture of complying type F or G under ASTM C494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33, including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.10.05.01	For cast-in-situ box girder, segmental construction and balanced cantilever.					
4.10.05.01.01	For height up to 5 m	cum	41,068.50	41,188.04	39,202.36	39,699.46
4.10.05.01.02	For height above 5 m to 10 m	cum	43,429.94	43,556.35	41,456.49	41,982.18
4.10.05.01.03	For height above 10 m to 15 m	cum	45,791.38	45,924.66	43,710.63	44,264.90
4.10.05.01.04	For height above 15 m to 20 m	cum	48,255.49	48,395.94	46,062.77	46,646.87
4.10.05.01.05	For height above 20 m	cum	50,514.25	50,661.29	48,218.90	48,830.34

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.06	PSC-50SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete workswith minimum cement content and maximum water cement ratio as specified by the laboratory having minimum required average compressive strength, f'cr = 60 MPa and satisfying a specified compressive strength, f'c = 50 MPa at 28 days on standard cylinder as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, silica fume conforming to ASTM C 1240, high range water reducing admixture of complying type F/ G under ASTM C 494 (Doses of admixture to be fixed by the mix design) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.80 and 20mm down well graded crushed stone chips broken from boulders (LAA value not exceeding 25) conforming to ASTM C 33 , including breaking stone boulders into chips, screening through proper sieves, making and placing shutter in position, making shutter water-tight properly, placing non prestressing reinforcement, HT Strand, sheath, anchorage in position, mixing in mechanized batch mix plant & pumping using line pump or boom placer, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing at least for 28 days, removing shutter after specified time period, finishing, launching, shifting & placing in position etc. including cost of water, electricity, other incidental charges etc. all complete as per design, drawing, specification & directionn of E-I-C. The cost of non prestressing reinforcement, HT Strand and it's fabrication, binding, welding and placing is not included but the cost of admixture is included in this unit rate. The Mix Design shall have to be approved by Central Quality Control Laboratory (CQCL), LGED or any other reputed laboratory approved by the competent authority before execution of the work. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]					
4.10.06.01	For cast-in-situ box girder, segmental construction and balanced cantilever.					
4.10.06.01.01	For height up to 5 m	cum	42,243.22	42,362.76	40,377.08	40,874.19
4.10.06.01.02	For height above 5 m to 10 m	cum	44,672.21	44,798.62	42,698.76	43,224.45
4.10.06.01.03	For height above 10 m to 15 m	cum	47,101.20	47,234.48	45,020.44	45,574.72
4.10.06.01.04	For height above 15 m to 20 m	cum	49,530.18	49,670.34	47,342.13	47,924.98
4.10.06.01.05	For height above 20 m	cum	51,959.17	52,106.20	49,663.81	50,275.25

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.07	LRPC Strand: Providing and laying of Uncoated Seven-Wire Steel Strand conforming to AASHTO M 203/ ASTM A 416M (Grade 1860, low-relaxation type) having minimum ultimate tensile strength 1860 Mpa of required size as per design including supplying, fabrication, placing in position, providing corrugated galvanized steel sheathing duct of minimum 0.4mm thick and minimum 75mm internal diameter, decoling the strands, cutting to the required lengths, preparing cables of required number strands as per drawings, making dead ends of cables in flowers to achieve rigid ends, spacers & joineries of approved quality, inserting cables within the sheathing, fixind tendon support bars, supervising anti bursting reinforcements, maintaning profile during concreting operations, stressing of cables in sequence as per design to required loads with approved stressing jacks, Blocking with proper pressure, measuring and recording elongation and force, grouting the duct with pumpable, nonbleeeding, high strength non-shrink cementitious grout with non-shrink grout admixture conforming to ASTM C 1107, maintaining the water cement ratio between 0.47 to 0.53, cutting the excess HT strand after satisfactory tensioning & anchorage, providing patch concrete at recess end with epoxy coating, all materials, labors, equipment, tools etc. all complete including leads and lifts as per design, drawing, specification and direction of the E-I-C. [Extra Length required for stressing operation is included in this unit rate]	MT	380,676.52	380,174.73	378,980.45	378,980.45
4.10.08	Multi-Strand Steel Anchorage: Supplying, fitting and fixing of best quality post tensioning multi-strand steel anchorage system comprising bearing plate, wedge plate, guide tube and gripping accessories with necessary test certificate from manufacturer for origin, performance and capacity including cost of all materials and accessories, necessary performance and capacity test from BUET, placing properly in position, labour, welding and carrying etc. all complete as design, drawing and direction of the E-I-C. The geometrical size and shape of the anchorage system shall be confirmed as per drawing or manufacturer's recommendation with necessary test results. One set of extra anchorage will be required for laboratory test and necessary arrangement.					
4.10.08.01	Anchorage Type: 4K13/ 4T13	set	5,340.81	5,340.81	5,340.81	5,340.81
4.10.08.02	Anchorage Type: 7K13/ 7T13	set	5,493.40	5,493.40	5,493.40	5,493.40
4.10.08.03	Anchorage Type: 12K13/ 12T13	set	7,629.72	7,629.72	7,629.72	7,629.72
4.10.08.04	Anchorage Type: 19K13/ 19T13	set	11,902.37	11,902.37	11,902.37	11,902.37
4.10.08.05	Anchorage Type: 27K13/ 27T13	set	17,853.55	17,853.55	17,853.55	17,853.55
4.10.08.06	Anchorage Type: 37K13/ 37T13	set	23,804.73	23,804.73	23,804.73	23,804.73
4.10.08.07	Anchorage Type: 4K15/ 4T15	set	6,943.05	6,943.05	6,943.05	6,943.05
4.10.08.08	Anchorage Type: 7K15/ 7T15	set	10,681.61	10,681.61	10,681.61	10,681.61
4.10.08.09	Anchorage Type: 12K15/ 12T15	set	13,733.50	13,733.50	13,733.50	13,733.50
4.10.08.10	Anchorage Type: 19K15/ 19T15	set	16,022.42	16,022.42	16,022.42	16,022.42
4.10.08.11	Anchorage Type: 27K15/ 27T15	set	21,821.01	21,821.01	21,821.01	21,821.01
4.10.08.12	Anchorage Type: 37K15/ 37T15	set	24,796.60	24,796.60	24,796.60	24,796.60

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.10.09	TF_Ancr: Conducting test of Prestressing Anchorage System as per BS 4447:1973 (Specification for the performance of prestressing anchorages for post-tensioned construction), PTI (Post-Tensioning Institute) & FIP Recommendations including preparation of platform, placing of anchorage system, preparation of report with observations and recommendations for necessary measures if required. Note: One set of extra anchorage will be required for laboratory test and necessary arrangement. Tests shall be conducted at LGED/ BUET/ CUET/ KUET/ RUET/SUST.	each	143,577.50	143,577.50	143,577.50	143,577.50
4.10.10	Unbonded Monostrand: Providing and laying of cold-drawn, low relaxation 7-wire coated HT strand conform to ASTM A 416 (Grade 1860, the outer diameter of HDPE sheathing should not be less then 1.27mm) having minimum ultimate tensile strength 1860 MPa of required size as per design including supplying, fabrication, placing in position, support chairs, spacers, joineries of approved quality, properly stage wise tensioning with approved jacks, Blocking with proper pressure, measuring and recording elongation and force, cutting the excess HT strand after satisfactory tensioning & anchorage, providing patch concrete at recess end with epoxy coating, all materials, labors, equipment, tools etc. all complete including leads and lifts as per design, drawing, specification and direction of the E-I-C.	MT	266,010.11	265,820.94	264,906.64	264,906.64
4.10.11	Mono Strand Anchorage: Supplying, fitting and fixing of best quality post tensioning monostrand steel anchorage system comprising bearing plate, wedge plate, guide tube and gripping accessories with necessary test certificate from manufacturer for origin, performance and capacity including cost of all materials and accessories, necessary performance and capacity test from BUET, placing properly in position, labour, welding and carrying etc. all complete as design, drawing and direction of the E-I-C. The geometrical size and shape of the anchorage system shall be confirmed as per drawing or manufacturer's recommendation with necessary test results. One set of extra anchorage will be required for laboratory test and necessary arrangement.					
4.10.11.01	MSA: 1K13/ 1T13	set	1,508.29	1,508.29	1,508.29	1,508.29
4.10.11.02	MSA: 1K15/ 1T15	set	1,967.33	1,967.33	1,967.33	1,967.33
4.10.13	Dummy Cable Duct: Supplying, fabricating and fixing dummy cable duct including end anchor cone, cost of equipment, labour etc. complete as per drawing, specification and direction of Engineer-in-charge.	m	1,092.18	1,091.45	1,082.41	1,082.58
4.10.14	Precast - Pretensioned Girders: Providing, precasting, transportation and placing in position precast pretensioned concrete girders as per drawings and Technical Specifications including cost of all materials & labour, hire charges for machineries, hire charges of Jack and other equipment required for stressing, other tools and plants, centering and shuttering, hire charges for casting yard, casting bed, roads for lifting and launching of the girders including charges for providing cranes, vehicle with trailer for lifting and to support the erection of girder for launching and placement at the required height and position including all charges for arrangement for movement of cranes, trailers of required number and capacity complete in all respect. [Using Batching Plant, Transit Mixer, Concrete Pump, bulk rate of Cement, non-prestressing and prestressing reinforcement]	cum	55,836.82	55,823.67	54,383.62	54,676.36

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-11: MS Fabrication, Re-Bar Coupler, Bearing & Expansion Joints						
4.11.01	Supplying and fabrication of Ribbed or deformed bar reinforcement for all types of RCC work including straightening, removing ruts, cleaning, cutting, hooking, bending, lapping and/or welding wherever required as directed, placing in position, tieing with 22 BWG black annealed binding wire (PVC coated in case of FBEC rebar) double fold, cost of binding wire and anchoring to the adjoining members wherever necessary, supplying and placing with proper cover blocks (1:1), supports, chairs, spacers, splices or laps etc. including cost of all materials, cost of labour, cost of equipment & machinery, loading and unloading, transportation, all other incidental charges and work at all leads and lifts etc. to complete the work as per design, drawing, specifications and direction of the E-I-C. Measurement relating to nominal mass, dimensions and tolerances of various types of steel shall conform to relevant BDS/ ASTM codes. Reinforcement shall be measured only in lengths of bar as actually placed in position on standard weight i.e. 7850 kg/m3 (BNBC Table 6.2.1) basis. No separate payment shall be allowed for chairs of any shape & profile, spacer bar of any shape & profile, lap/splice & welding unless otherwise shown in the drawing, wastages, binding wire etc. as the cost of these is included in the unit rate. Note: Tests for reinforcing bars shall be conducted at LGED/ BUET/ CUET/ KUET/ RUET/SUST.					
4.11.01.01	Grade B300C-R/ B300D-R/ B300DWR: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2016 with minimum yield strength, fy (ReH) = 300 MPa, but the tested yield strength shall not exceed fy by more than the 125 MPa and the ratio of tested ultimate strength, fu (Re) to tested yield strength (fy) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 17% and 8% respectively.					
4.11.01.01.01	Using retail rate of reinforcing bar	kg	116.97	116.82	116.15	116.15
4.11.01.01.02	Using bulk rate of reinforcing bar	kg	113.06	113.06	112.03	112.03
4.11.01.02	Grade B400C-R/ B400CWR/ 400DWR: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2016 with minimum yield strength, fy (ReH) = 400 MPa, but the tested yield strength shall not exceed fy by more than the 125 MPa and the ratio of tested ultimate strength, fu (Re) to tested yield strength (fy) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 17% and 8% respectively.					
4.11.01.02.01	Using retail rate of reinforcing bar	kg	127.16	127.01	126.34	126.34
4.11.01.02.02	Using bulk rate of reinforcing bar	kg	124.36	124.36	123.33	123.33
4.11.01.03	Grade B420DWR: Ribbed or Deformed bar produced and marked as per ISO 6935-2:2016/ ASTM A706M - 16 with minimum yield strength, fy(ReH) = 420 MPa but fy(ReH) not exceeding 540 MPa, the ratio of ultimate tensile strength, fu(Rm) to actual yield strength, fy(ReH) shall be at least 1.25 and minimum elongation in 200mm shall be at least 14% for bar sizes 10mm through 20mm, at least 12% for bar sizes 22mm through 32mm and at least 10% for bar sizes 40mm and 50mm.					
4.11.01.03.01	Using retail rate of reinforcing bar	kg	127.16	127.01	126.34	126.34
4.11.01.03.02	Using bulk rate of reinforcing bar	kg	124.36	124.36	123.33	123.33
4.11.01.04	Grade B500DWR: Deformed bar produced and marked as per BDS ISO 6935-2:2016 with minimum yield strength, fy (ReH) = 500 MPa but fy (ReH) not exceeding 1.3 ReH, the ratio of actual ultimate tensile strength, fu(Rm) to actual yield strength, fy(ReH) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 13% and 8% respectively. [This reinforcement shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.11.01.04.01	Using retail rate of reinforcing bar	kg	124.62	124.46	123.80	123.80
4.11.01.04.02	Using bulk rate of reinforcing bar	kg	121.28	121.28	121.28	121.28
4.11.01.05	Grade 550: Deformed bar produced and marked as per ASTM A706M - 16 with minimum yield strength, fy = 550 MPa but fy not exceeding 675 MPa, minimum ultimate strength, fu = 690 MPa, the ratio of actual ultimate tensile strength, fu to actual yield strength, fy shall be at least 1.25 and minimum elongation in 200mm shall be at least 12% for bar sizes 10mm through 32mm and at least 10% for bar sizes 40mm and 50mm. [This reinforcement shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]					
4.11.01.05.01	Using retail rate of reinforcing bar	kg	124.62	124.46	123.80	123.80
4.11.01.05.02	Using bulk rate of reinforcing bar	kg	122.07	121.28	121.28	121.28
4.11.01.06	Grade B600C-R: Deformed bar produced and marked as per BDS ISO 6935-2:2016 with minimum yield strength, fy (ReH) = 600 MPa, the ratio of actual ultimate tensile strength, fu(Rm) to actual yield strength, fy(ReH) shall be at least 1.15 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 10% and 7% respectively. [This reinforcement shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]					
4.11.01.06.01	Using retail rate of reinforcing bar	kg	124.62	124.46	123.80	123.80
4.11.01.06.02	Using bulk rate of reinforcing bar	kg	122.07	121.28	121.28	121.28
4.11.02	FBECR: Extra over item code: 4.11.01 for providing Fusion Bonded Epoxy Coating (FBEC) to reinforcement bars as per ASTM A775/ BDS ISO 14654: 2013 specification for a coating thickness (after curing) of 175 to 300 microns for 10mm to 16mm and 175 to 400 microns for 20mmm to 50mm re-bars including extra cost on account of careful handling during straightening, cutting, bending & placing, extra cost on account of using PVC coated binding wire instead of G.I. wire, extra cost on account of touch-up material (All cut edges/weld areas and bend locations where coating has been damaged touch up shall be done with same paint, the upper thickness limit shall not apply to repaired areas of damaged coating) supplied by coating agency and repair work, extra cost on account of transportation to and fro from steel yard to plant and plant to work site by trailer (if required), loading, unloading, flexibility & holiday testing, including all taxes, etc. complete to ensure proper resistance of FBE against corrosive environment. [Fusion Bonded Epoxy Coating to be proposed only in Coastal Area/Severe Exposure Condition with prior approval of Design Unit, LGED.]					
4.11.02.01	For Re-bar diameter: 8mm to 12mm	kg	13.24	13.24	13.24	13.24
4.11.02.02	For Re-bar diameter: 16mm to 50mm	kg	11.26	11.26	11.26	11.26
4.11.03	Supplying and fabrication of High Yield strength (500 MPa, Galvanized wire rope) of required size and length for all types of Arch Bridge work including cutting, fitting , securing and placing them in position, etc. including cost of all materials, labour, local handling, laboratory test, incidentals charge to complete the work as per specifications, drawings and direction of the Engineer. Laboratory test for physical property, strength, to be performed as per ASTM	kg	287.19	287.03	286.37	286.37

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.11.04	Supplying, fitting and fixing mechanical couplers of various diameter confirming to ACI/ AASHTO having minimum connection strength at least 125% of nominal yield strength, fy of the reinforcing bars including fitting & fixing in proper position as shown in drawing and attach to the reinforcement bars by thread, cold swaging and extrusion or hot forging including cost of all materials, labors, equipment, tools etc. all complete as per design, drawing and direction of the E-I-C. All operations relating to reinforcement coupling shall be done using supplier's petented machine/ equipment and in the presence of the supplier's representative. The contractor shall submit relevant trade literature, mill certificates, certificate of origin and letters of approval for each proposed application. A sample of each type of mechanical coupler shall be submitted for testing and approval prior to the use of any coupler in the works					
4.11.04.01	For 25mm diameter rebar Coupler	each	320.85	319.59	315.81	315.81
4.11.04.02	For 32mm diameter rebar Coupler	each	434.05	432.79	429.00	429.00
4.11.04.03	For 40mm diameter rebar Coupler	each	660.44	659.18	655.40	655.40
4.11.04.04	For 50mm diameter rebar Coupler	each	718.33	717.07	713.28	713.28
4.11.05	Providing nosing with MS angles of different sizes. including cost of all materials, welding, carrying, etc. all complete as per design, drawing and direction of the E-I-C.	kg	173.02	173.02	173.02	173.02
4.11.06	Supplying, fitting, fixing & installation of expansion joints as indicated on the drawing and conforming to the following specifications and as directed by the E-I-C.					
4.11.06.01	Providing expansion joints between the breast walls (abutment top wall) and girders or in between the girders with steel sheet and filling the gap with sand and bitumen (80/100) as per design, drawing and direction of the E-I-C.	kg	193.56	193.61	193.26	193.26
4.11.06.02	Strip Seal Expansion Joint: Providing and laying of Strip Seal type bridge deck expansion joint catering to maximum horizontal movement up to 80 mm including cost of all materials (edge beams, Strip seal, anchorage, angle, bar, plate etc.), fixtures, welding, preparing surface for receiving joints, installation in proper position, labour charges, testing of all materials in approved laboratory, handling, tools, equipment, all leads and lifts etc. all complete as per approved drawing, specification and direction of the E-I-C. The Installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation. [The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC Deck.]	m	44,652.54	44,650.88	44,645.36	44,645.36
4.11.06.03	Modular Strip/ Box Seal Expansion Joint: Providing and laying of modular strip/ Box seal expansion joint catering to maximum horizontal movement beyond 80 mm and up to 240 mm including all materials, installation in proper position, labour charges, testing, handling, tools, equipment etc. all complete as per drawing, specification and direction of the E-I-C. The anchoring bars of the expansion joint assembly shall be welded to the main reinforcement of the deck. The installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation. [The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC Deck.]					
4.11.06.03.01	Modular Strip Expansion: beyond 80 mm and up to 160 mm	m	219,902.68	219,900.70	219,894.69	219,894.69
4.11.06.03.02	Modular Strip Expansion: beyond 160 mm and up to 240 mm	m	328,507.73	328,505.24	328,497.68	328,497.68

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.11.06.04	EJ-F: Providing and laying of finger expansion joint catering to maximum horizontal movement up to 300 including all materials, installation in proper position, labour charges, testing, handling, tools, equipment etc. all complete as per drawing, specification and direction of the E-I-C. The anchoring bars of the expansion joint assembly shall be welded to the main reinforcement of the deck. The installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation. [The concreting for joining the expansion joint assembly with the deck has not been included in this analysis as the same is catered in the quantities of RCC Deck.]					
4.11.06.04.01	EJ-F_100: Finger Joint: Up to 100mm, Without Elastic Seal	m	197,391.85	197,389.87	197,383.85	197,383.85
4.11.06.04.02	EJ-F_100E: Finger Joint: Up to 100mm, With Elastic Seal	m	376,177.73	376,175.24	376,167.68	376,167.68
4.11.06.04.03	EJ-F_200: Finger Joint: 100mm to 200mm, Without Elastic Seal	m	305,973.52	305,971.53	305,965.52	305,965.52
4.11.06.04.04	EJ-F_200E: Finger Joint: 100mm to 200mm, With Elastic Seal	m	611,879.39	611,876.91	611,869.35	611,869.35
4.11.06.04.05	EJ-F_300: Finger Joint: 200mm to 300mm, Without Elastic Seal	m	622,449.35	622,447.37	622,441.35	622,441.35
4.11.06.04.06	EJ-F_300E: Finger Joint: 200mm to 300mm, With Elastic Seal	m	1,223,644.39	1,223,641.91	1,223,634.35	1,223,634.35
4.11.07	Supplying, fitting and fixing bridge bearings including cost of all materials, labour, welding and carrying etc. complete in all respect as per design, drawing, specification and direction of the E-I-C.					
4.11.07.01	Roller bearing with required numbers of rollers, plate and other fittings					
4.11.07.01.01	Each set up to 150 mm diameter	kg	380.10	372.28	360.55	360.55
4.11.07.01.02	Each set beyond 150 mm diameter	kg	615.30	600.16	577.46	577.46
4.11.07.02	Hinge plate bearing with lead plates and other fittings					
4.11.07.02.01	Each set with plate up to 25 mm thick	kg	516.49	511.44	503.88	503.88
4.11.07.02.02	Each set with plate beyond 25 mm thick	kg	551.09	546.05	538.48	538.48
4.11.07.03	Free plate bearing with lead plates and other fittings					
4.11.07.03.01	Each set with plate up to 25 mm thick	kg	326.16	321.12	313.55	313.55
4.11.07.03.02	Each set with plate beyond 25 mm thick	kg	326.16	321.12	313.55	313.55
4.11.07.04	Hinge plate bearing with lead sheets including fitting & fixing	kg	323.57	318.52	310.95	310.95

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.11.08	SLEB: Supplying, fitting and fixing steel-laminated Elastomeric/ Neoprene bearings in exact positions as per drawing, specifications and direction of the E-I-C including cost of all materials, labour, carrying etc. The set shall be of 100% virgin Chloroprene Rubber (CR), grades of raw elastomer of proven use in elastomeric bearings, with low crystallization rates and adequate shelf life viz. Neoprene WRT, Neoprene W, Bayprene 110, Bayprene 210, Skyprene B-5, Skyprene B-30, Denka S-40V and Denka M-40, shall be used. No reclaimed rubber or Vulcanized wastes or natural rubber shall be used. Use of synthetic rubber-like materials such as Ethyl Propylene Dimonomer (EPDM), Isobutane Isoprene Copolymer (IIR) and Chloro-Isoprene Copolymer (CIIR) shall not be permitted. Laboratory test to be performed from BUET, Dhaka for Elastomer hardness limits determined in accordance with ASTM D 2240 shall be 60 ± 5 duro, minimum tensile strength determined in accordance with ASTM D 412 shall be 17 MPa, ultimate elongation determined in accordance with ASTM D 412 shall be minimum 400%, compression set value after 22 hours at 100 degree centigrade determined in accordance with ASTM D 395 Method B shall be maximum 35%, Elastomeric content determined in accordance with ASTM D 297 shall not be less than 60%, Ash content determined in accordance with ASTM D 297 shall not exceed 5%, Shear modulus of elastomeric bearing determined in accordance with ASTM D 4014 shall neither be less than 0.8 MPa nor greater than 1.2 MPa, the adhesion strength of elastomer to steel plates (Peel Strength) determined in accordance with ASTM D 429 Method B shall not be less than 7kN/m. One set of Elastomeric Bearing must be taken as extra for laboratory test.	cucm	3.13	3.12	3.10	3.10
4.11.09	TF_Neo_Pad:Test fee for steel-laminated Elastomeric/ Neoprene bearings confirming to 100% virgin Chloroprene Rubber (CR), grades of raw elastomer of proven use in elastomeric bearings, with low crystallization rates and adequate shelf life viz. Neoprene WRT, Neoprene W, Bayprene 110, Bayprene 210, Skyprene B-5, Skyprene B 30, Denka S-40V and Denka M-40, shall be used. No reclaimed rubber or Vulcanized wastes or natural rubber shall be used. Use of synthetic rubber-like materials such as Ethyl Propylene Dimonomer (EPDM), Isobutane Isoprene Copolymer (IIR) and Chloro-Isoprene Copolymer (CIIR) shall not be permitted. Laboratory test to be performed from BUET, Dhaka for Elastomer hardness limits determined in accordance with ASTM D 2240 shall be 60 ± 5 duro, minimum tensile strength determined in accordance with ASTM D 412 shall be 17 MPa, ultimate elongation determined in accordance with ASTM D 412 shall be minimum 400%, compression set value after 22 hours at 100 degree centigrade determined in accordance with ASTM D 395 Method B shall be maximum 35%, Elastomeric content determined in accordance with ASTM D 297 shall not be less than 60%, Ash content determined in accordance with ASTM D 297 shall not exceed 5%, Shear modulus of elastomeric bearing determined in accordance with ASTM D 4014 shall neither be less than 0.8 MPa nor greater than 1.2 MPa, the adhesion strength of elastomer to steel plates (Peel Strength) determined in accordance with ASTM D 429 Method B shall not be less than 7kN/m. One set of Elastomeric Bearing must be taken as extra for laboratory test but excluding cost of Bearing Pad	each	40,317.72	40,317.72	40,317.72	40,317.72
4.11.10	Filling of expansion joints upto a depth of 40 mm with bitumen mixed with coarse sand (FM ≥ 2.5) in concrete works including supply of all materials etc. complete as per specification and direction of E-I-C.					
4.11.10.01	25mm wide	m	125.37	123.98	121.14	121.12
4.11.10.02	20mm wide	m	100.34	99.23	96.96	96.94

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.11.11	POT-PTFE Bearing: Supplying, fitting and fixing POT-PTFE bearing to the true line and level and position as per drawing and AASHTO Specifications as to impart full and even bearing on the seats and free movements/ restraints as specified including coat of all materials, fixtures, preparing surface for receiving bearing, grouting of sleeves in pier caps/ superstructures with non-shrink high early strength grout of flowable consistency, load testing of all bearings as per design and drawings and specifications, removing clamps provided for transportation and handling etc. complete including all leads and lifts as directed by E-I-C. One set must be taken as extra for laboratory test which to be performed from BUET.					
4.11.11.01	PBG: Guided/ Free Type Pot Bearing	MT	831.82	831.60	830.87	830.87
4.11.11.02	PBF: Fixed Type Pot Bearing	MT	602.67	602.53	602.08	602.08
4.11.12	Spherical Bearing: Supplying fitting and fixing in position true to line and level cast steel spherical/ cylindrical type bearing with stainless steel plate with PTFE sliding surface as per AASHTO specification complete with all accessories as per drawing and direction of E-I-C and including cost of all material installation. One set must be taken as extra for laboratory test which to be performed from BUET.	MT	1,197.06	1,196.95	1,196.60	1,196.60
4.11.13	STU: Providing and fitting in position true to line and level shock transmission unit as per AASHTO specification complete with all accessories as per drawing and direction of Engineer-in-charge and including cost of all material for installation. The installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation.					
4.11.13.01	STU_50: Up to 50 MT of Horizontal Load	MT	37,262.08	37,259.06	37,246.95	37,246.95
4.11.13.02	STU_50+: Above 50 MT of Horizontal Load	MT	27,357.39	27,356.09	27,350.90	27,350.90
4.11.14	HDRB: Supplying, fitting and fitting High Damping Rubber Bearing for seismic isolation in exact positions as per drawing, specificatons and direction of the E-I-C including cost of all materials, labour, carrying etc. The devices shall be made from natural rubber (NR) providing a high resistance against mechanical wear. The bearings shall consist of alternate layers of elastomeric material and vulcanized reinforcement steel plates and provide a high level of damping of up to 16%. The installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation. One set of HDRB must be taken as extra for laboratory test which must be performed from BUET, Dhaka.	MT	1,138.82	1,135.79	1,123.68	1,123.68
4.11.15	DB: Supplying, fitting and fitting Disc Bearing in exact positions as per drawing, specificatons and direction of the E-I-C including cost of all materials, labour, carrying etc. The upper and lower bearing plates shall be made of carbon steel conforming to ASTM A 709 Gr 250 or Gr 345, stainless steel as per Type 304 of ASTM A 167, polyether-Urethane rotational disc as per AASHTO Specifications and PTFE material as per ASTM D4894/ D3294. The installation shall be done by the manufacturer/ supplier or their authorised representative ensuring compliance to the manufacturer's instruction for installation. One set of Disc Bearing must be taken as extra for laboratory test which must be performed from BUET, Dhaka.	MT	1,853.87	1,850.84	1,838.73	1,838.73

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-12: Chemical Admixture, Galvanizing & Curing Compound and Concrete Cover Blocks						
4.12.01	Supply and use of specified type chemical admixture delivered from an authorized local agent or manufacturer, complying with the ASTM C-494 requirements; conforming the current compliance of the admixture to specification requirements like physical properties, uniformity and equivalence in composition etc.; performance (water content, fresh concrete setting time and compressive strength) requirements, delivered in sealed water-tight containers confirming plainly marked product name & type under this specification, net weight and /or volume, manufacturing and expiry date, non aggressiveness to environment, aggregates and metals in concrete etc. and mixing the admixture in non pre-stressed cement concrete mixture in the field in accordance with manufacturers recommendation and instruction; providing safety provisions in all respects etc. all complete as per instruction and approved by the Engineer-in-charge. Dose (quantity in milli litres per 50 kg bag cement) and brand/origin/ manufacturer with respect to particular brand of cement and particular stock of aggregates and method of use to be determined by mix design / trial mix at the cost of contractor and approved by the Engineer. (Use of admixture is subjected to prior approval of design office)[PWD 07.19]					
4.12.01.01	Supply and use of water reducing chemical admixture in concrete, complying ASTM C-494 Type – A of approved brand / origin / manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture is to reduce quantity of mixing water required for normal workability and to maintain low water-cement (W/C) ratio, for improved concrete quality assurance.[PWD 07.19.1]	liter	210.69	210.69	210.69	210.69
4.12.01.02	Supply and use of retarding chemical admixture in concrete, complying ASTM C-494 Type - B of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture for retarding setting time of concrete, there by reducing shrinkage in concrete specially for concrete laid in thick layers and intended delayed construction for improved construction joints, re-concreting etc.[PWD 07.19.2]	liter	214.80	214.80	214.80	214.80
4.12.01.03	Supply and use of accelerating chemical admixture in concrete, complying ASTM C-494 Type - C of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that is to accelerate the setting time and early strength gain of concrete. [PWD 07.19.3]	liter	151.08	151.08	151.08	151.08
4.12.01.04	Supply and use of water-reducing and retarding chemical admixture in concrete, complying ASTM C-494 Type - D of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (W/C) ratio and intend to retard setting time of concrete, specially for layered, thick laid concrete etc. [PWD 07.19.4]	liter	277.50	277.50	277.50	277.50
4.12.01.05	Supply and use of water-reducing and accelerating chemical admixture in concrete, complying ASTM C-494 Type - E of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (W/C) ratio and intend to accelerate setting time of concrete, and early strength gain in concrete etc. [PWD 07.19.5]	liter	239.47	239.47	239.47	239.47

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.12.01.06	Supply and use of water-reducing high range chemical admixture in concrete, complying ASTM C-494 Type - F of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete. [PWD 07.19.6]	liter	277.50	277.50	277.50	277.50
4.12.01.07	Supply and use of water-reducing high range and retarding chemical admixture in concrete, complying ASTM C-494 Type - G of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete and intend to retard setting time of concrete. [PWD 07.19.7]	liter	207.61	207.61	207.61	207.61
4.12.02	CGC: Providing Cold Galvanizing Compound having 96% of zinc (purity is 99.99%), corrosion rate shall be less than 0.05mm per year, solid content shall not be more than 40% by volume and relative density shall not more than 2.70 gm/cc and should be complied the international test result like salt spray test, frame test, weathering test and humidity test. Shelf and drying time shall not be more than 25 minutes for the cathodic (galvanic/sacrificial) protection of all steel structure for a specified time against formation of rust and corrosion with labour, consumables, air compressor tools, plants and equipment, transportation etc. all complete as per specifications and direction of E-I-C. [This coating shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]					
4.12.02.01	CGC30: 30 Micron Cold Galvanizing Compound for minimum 8 years protection against rust & corrosion.	sqm	2,346.14	2,335.61	2,332.93	2,330.10
4.12.02.02	CGC40: 40 Micron Cold Galvanizing Compound for minimum 10 years protection against rust & corrosion.	sqm	3,498.70	3,488.16	3,485.49	3,482.65
4.12.02.03	CGC40PU: 40 Micron Cold Galvanizing Compound including Polyurethane (PU) or Epoxy Polyamide (Duplex System) for minimum 10+ years protection against rust & corrosion.	sqm	4,305.49	4,294.95	4,292.28	4,289.44
4.12.02.04	CGC60: 60 Micron Cold Galvanizing Compound for minimum 12 years protection against rust & corrosion.	sqm	4,380.40	4,369.87	4,367.19	4,364.36
4.12.02.05	CGC60PU: 60 Micron Cold Galvanizing Compound including Polyurethane (PU) or Epoxy Polyamide (Duplex System) for minimum 13+ years protection against rust & corrosion.	sqm	4,558.33	4,547.79	4,545.12	4,542.28
4.12.02.06	CGC80: 80 Micron Cold Galvanizing Compound for minimum 15 years protection against rust & corrosion.	sqm	4,868.80	4,858.26	4,855.59	4,852.75
4.12.02.07	CGC80PU: 80 Micron Cold Galvanizing Compound including Polyurethane (PU) or Epoxy Polyamide (Duplex System) for minimum 15+ years protection against rust & corrosion.	sqm	5,198.72	5,188.18	5,185.51	5,182.67
4.12.02.08	CGC80PBW: 80 Micron Cold Galvanizing Compound including Plyvinyl Butyral Wash primer (adhesion) & Copper Epoxy anti-foul 250 Micron (Triplex System) for minimum 15+ years protection against rust & corrosion.	sqm	6,461.48	6,450.95	6,448.27	6,445.44
4.12.02.09	CGC100: 100 Micron Cold Galvanizing Compound for minimum 15+ years protection against rust & corrosion.	sqm	6,100.59	6,090.06	6,087.38	6,084.54
4.12.02.10	CGC100PU: 100 Micron Cold Galvanizing Compound including Polyurethane (PU) or Epoxy Polyamide (Duplex System) for minimum 15+ years protection against rust & corrosion.	sqm	6,291.48	6,280.95	6,278.27	6,275.44
4.12.02.11	CGC100PBW: 100 Micron Cold Galvanizing Compound including Plyvinyl Butyral Wash primer (adhesion) & Copper Epoxy anti-foul 250 Micron (Triplex System) for minimum 15+ years protection against rust & corrosion.	sqm	6,706.40	6,695.87	6,693.19	6,690.35

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.12.03	CCC: Supplying and spraying liquid membrane-forming water/resin based concrete curing compounds conforming to ASTM C 309/ AASHTO M 148 on freshly cast concrete or newly exposed concrete surfaces immediately after removal of shuttering or after initial moist curing at a rate of 5.0 m2/L or in accordance with the manufacturer's instructions to form a thin continuous firm barrier/ temporary membrane which will retain sufficient moisture for effective curing to take place during the early-hardening period without disturbing the normal setting action of concrete including labour, equipment, other incidental charges etc. all complete as per specification and direction of E-I-C. The curing compound shall exhibit water loss not more than 0.55 Kg/m2 in 72 hours when tested as per ASTM C 156, shall exhibit a daylight reflectance of not less than 60% when tested as per ASTM E 1347 and shall dry to touch in not more than 4 hours. [This unit rate includes 10% extra curing compound for overlaps and wastage.]	sqm	159.91	158.65	156.76	156.76
4.12.04	CCB: Supplying concrete cover block as specified size conforming to BS 8110-1, satisfying a compressive strength f'c = 35 MPa (Min.), ensuring perfect clear cover to rebar in concrete structure. The mix used for concrete cover blocks made from cement, sand, stone dust, small aggregate etc. and should be comparable in strength, durability, porosity and appearance to the sorrounding concrete as fas as practicable. Concrete cover blocks made on the construction site should not be used. [The volumn of concrete cover blocks must be deducted from the RCC/PSC items.]					
4.12.04.01	CCB-M20/25: Concrete Cover Block with 20/25 mm clear cover facility for Slab, Stair etc. [Concrete Volumn = 0.0022 cum/100 Nos.]	nos	3.15	3.15	3.15	3.15
4.12.04.02	CCB-M35/40: Concrete Cover Block with 35/40 mm clear cover facility for Beam, column, RCC Wall, Girder, Pier etc. [Concrete Volumn = 0.0067 cum/100 Nos.]	nos	8.20	8.20	8.20	8.20
4.12.04.03	CCB-M45/50: Concrete Cover Block with 45/50 mm clear cover facility for Beam, Column, RCC Wall, Girder, Pier etc. [Concrete Volumn = 0.0082 cum/100 Nos.]	nos	10.09	10.09	10.09	10.09
4.12.04.04	CCB-M60/65/75/80: Concrete Cover Block with 60/65/75/80 mm clear cover facility for Sub-structure, footing/ foundation, column, beam etc. [Concrete Volumn = 0.0186 cum/100 Nos.]	nos	16.39	16.39	16.39	16.39
4.12.04.05	CCB-M100/110: Concrete Cover Block with 100/110 mm clear cover facility for top layer of slab reinforcement [Concrete Volumn = 0.0216 cum/100 Nos.]	nos	20.81	20.81	20.81	20.81
4.12.04.06	CCB-C40: Concrete Cover Block with (Circular) 40 mm clear cover facility for Spiral Column, RCC Wall etc. [Concrete Volumn = 0.0155 cum/100 Nos.]	nos	13.87	13.87	13.87	13.87
4.12.04.07	CCB-C75: Concrete Cover Block with (Circular) 75 mm clear cover facility for Piling Work [Concrete Volumn = 0.0507 cum/100 Nos.]	nos	41.62	41.62	41.62	41.62
4.12.04.08	CCB-L40: Concrete Cover Block with (L-Shape) 40 mm clear cover facility for Beam/ Column Construction [Concrete Volumn = 0.015 cum/100 Nos.]	nos	13.87	13.87	13.87	13.87

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-13: Wearing course, Drainage Spouts, Back filling & Weep holes						
4.13.01	CWC: Providing and laying wearing course on deck slab of bridge with minimum cement content ralates to mix ratio 1:1.5:3 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 33.5 MPa and satisfying a compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, Coarse sand of minimum FM 2.5 and 6mm down well graded crushed stone chips broken from boulders (preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including breaking stone boulders into chips, screening through proper sieves, casting, finishing complete to camber and grade, compacting, curing at least for 28 days, etc. including cost and carriage of all materials, labour, water, electricity, other incidental cost etc. all complete as per design, drawing, specification & directionn of E-I-C.	cum	14,133.97	14,061.03	13,768.72	13,831.28
4.13.02	Providing & fixing rainwater down pipes including cost of all materials, labours, equipment, transportation, fixtures, accessories etc. at any level as per specification, drawings and direction of the E-I-C.					
4.13.02.01	RWDP40GI: 40mm dia GI pipe of 2.90mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	878.99	876.98	873.95	873.95
4.13.02.02	RWDP50GI: 50mm dia GI pipe of 2.90mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	957.18	954.91	951.51	951.51
4.13.02.03	RWDP100GIMC: 100mm dia GI pipe of 4.05mm wall thickness conforming to BDS 1031/ BS 1387 Medium Class	m	2,577.71	2,574.94	2,570.78	2,570.78
4.13.02.04	RWDP50PVC: 50mm uPVC Pipe of 2.5mm to 3mm wall thickness conforming to BS 3505	m	187.91	186.90	185.38	185.38
4.13.02.05	RWDP75PVC: 75mm uPVC Pipe of 2.9mm to 3.4mm wall thickness conforming to BS 3505	m	305.19	304.05	302.35	302.35
4.13.03	BF: Back filling behind abutments, wing walls and retaining walls with selected granular material (50:50 best quality picked brick chips & sand of min. FM 1.00) of minimum 450 mm width, in layers of 150 mm thickness free from dust, impurities etc. including compaction using plate compactor, watering & dressing, supply & cost of all materials, carrying and labour, hire charge of plate compactor and other tools etc. all complete as per direction of the Engineer-In-Charge. Payment to be made for the compacted volume only for a compaction of 90% of the maximum dry density.	cum	3,475.70	3,495.39	3,352.76	3,386.30
4.13.04	WH: Providing weep holes in Brick masonry/ Plain/ Reinforced concrete retaining wall, abutment, wing/ return wall, with 50 - 100 mm dia uPVC pipe extending through the full width of structure with slope 1V : 20H towards draining face including hand packing of 0.85 cum pervious backfill material (40mm - 63mm sized 1st class/picked brick bats) wrapped in Geo-fabric (Grade-III-DF-40-2.3mm thick) in the back of each weep hole etc. all compete as per direction of the E-I-C. [Cost of uPVC pipe, Geo-bag, brick bats, mortar etc. is included in this item and shall not be paid separately.]					
4.13.04.01	WH50: Using 50mm dia uPVC pipe	each	558.72	560.87	544.82	549.22
4.13.04.02	WH75: Using 75mm dia uPVC pipe	each	685.20	687.29	670.73	675.12
4.13.04.03	WH100: Using 100mm dia uPVC pipe	each	879.10	881.12	863.93	868.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.13.05	DS: Supplying, fitting and fixing in position galvanized drainage spouts for bridge decks made up by minimum 100mm dia. MS pipe of 4.05mm wall thickness conforming to BDS 1031/ BS 1387 Medium Class, grating formed by 262mm x 262mm top rim of 32mm X 28mm ASTM A36 complied MS rectangular bars and 4 nos. 198mm X 12mm X 25mm ASTM A36 complied MS flat bars, square shaped collection pit of 210mm X 210mm made up by 6mm thick ASTM A36 complied MS plate with necessary anchorage and fixing the grating frame by minimum 6 nos. of 10mm dia. bolts and other necessary fittings including all labour, tools, plant, equipment, machinery, leads & lifts, fuel, electric charges etc. complete in all respectas as per drawing, specifications and direction of Engineer-in-Charge. The grating has to carry a spot load of 100 kN. Drainage spouts has to be constructed in such a way so that the gratings can be temporarily fixed to protect against theft. After fabrication, the complete assembly shall be given a hot dipped galvanized coating. [600mm MS Pipe is included in this unit rate, Extra length must be added if necessary]	each	6,758.96	6,755.22	6,729.11	6,729.11
4.13.06	DG: Supplying, fitting and fixing in position galvanized drainage grating for bridge decks made up by 200mm x 150mm outer frame of 25mm x 25mm x 6mm ASTM A 36 complied MS Angles and 4 nos. 25mm x 6mm ASTM A36 complied MS flat bars, grating fitted with 4 nos. BDS ISO 6935-2: 2016 (Grade 400) complied 12mm dia. anchor bar 100mm in length by welding and other necessary fittings including all labour, tools, plant, equipment, machinery, leads & lifts, fuel, electric charges etc. complete in all respect as per drawing, specifications and direction of Engineer-in-Charge. After fabrication, grating shall be given a hot dipped galvanized coating.	each	641.04	640.00	633.17	633.17
4.13.07	PS: Providing cork/ polystyrene sheet in expansion joints of concrete works including supply of all materials etc. complete as per direction of E-I-C.					
4.13.07.01	PS_25: 25mm thick cork/ polystyrene sheet	sqm	299.32	296.78	292.96	292.96
4.13.07.02	PS_20: 25mm thick cork/ polystyrene sheet	sqm	286.59	284.04	280.22	280.22
4.13.08	Providing and fixing 150 mm PVC pipe of 6.6mm to 7.6mm wall thickness conforming to BS 3505 for longitudinal runner pipe/ under drain along soffit of deck slab including cost of all materials, labours , fixing in true line and levels, including bends and fixtures, specials, etc. complete with all leads and lifts etc. as per specification and direction of E-I-C.	m	2,494.73	2,493.41	2,486.79	2,486.79

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1	2	3	4	5	6	7
4.13.09	MA: Providing and laying mastic asphalt wearing course on top of deck slab excluding prime/tack coat with 10/20 penetration grade bitumen satisfying the requirements of ASTM/AASHTO code, coarse aggregate should be crushed stone chips (LAA value <=30) complying with the specified grading requirement of the relevant item of Rural Road Design Standard - 2021, water absorption not >2%, flakiness index not > 35%, fine aggregate shall be the fraction passing the 2.36mm and retained on the 0.075mm sieve, filler shall be limestone powder passing 75 micron sieve and shall have a calcium carbonate content of not < 80%, prepared by using mastic cooker and laid to required level and slope after cleaning the surface, including hire charges of all tools, plants and machinery, wages of operational staff, cost of fuel & lubricants and all other incidental charges all complete as per design, specification and direction of Engineer-in-Charge. The contractor shall submit to the Engineer for approval at least one month before the start of the work the job mix formula proposed to be used by him for the work. [Excluding the cost of applying Prime/Tack coat] Notes: 1. Where prime/tack coat is required to be provided before laying mastic asphalt, the same is required to be measured and paid separately. The rate for prime/tack coat shall be taken from Road Works. 2. Bituminous wearing course of specified thickness shall be overlaid with this mastic asphalt (for up to 25mm thickness) and the rate for bituminous wearing course shall be taken from Road Works.					
4.13.09.01	MA_12: 12mm thick mastic asphalt wearing course	sqm	1,019.56	1,015.35	996.22	997.45
4.13.09.02	MA_25: 25mm thick mastic asphalt wearing course	sqm	1,414.48	1,410.49	1,385.26	1,387.89
4.13.09.03	MA_40: 40mm thick mastic asphalt wearing course	sqm	2,265.53	2,259.18	2,219.22	2,223.35
4.13.09.04	MA_50: 50mm thick mastic asphalt wearing course	sqm	2,816.83	2,809.08	2,759.92	2,765.08
Section-14: Slope Protective Work, Jute & Synthetic Geo-textile						
4.14.01	Manufacturing and supplying Plain Cement Concrete (PCC) Blocks with cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, sand of minimum FM 1.8 and 40 mm down well graded shingles to attain a minimum 28 days cylinder strength of 17.00 MPa (suggested mix proporation 1:2:4) including grading, washings shingles, mixing, laying in forms, consolidating, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks, cost of all materials, labour, equiptment and machinery, work at all leads and lifts, loading and unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel shutter shall be used to perform the job. [Payment shall be done after laying of PCC Blocks]					
4.14.01.01	Size: 400 mm x 400 mm x 150 mm	each	366.18	370.63	336.15	345.25
4.14.01.02	Size: 500 mm x 500 mm x 150 mm	each	547.10	554.59	502.36	516.53
4.14.01.03	Size: 500 mm x 500 mm x 200 mm	each	746.20	755.80	685.08	704.01
4.14.01.04	Cast-in-Situ Blocks of required sizes as per drawing	cum	14,934.65	15,130.05	13,600.14	13,997.39
4.14.02	Labour charge for protective works in laying Plain Cement Concret (PCC) blocks of different sizes including preparation, watering and ramming of base, packing the residual space between masonry & other structural members like columns, beams, slabs etc., providing opening as directed and finishing neatly around the same, works at all leads and lifts, loading and unloading, transportaiton and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C.	cum	1,260.99	1,234.63	1,148.62	1,148.62

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.14.03	Providing brick mattressing in bridge approaches as protective work with required layer soling of 1st class/ picked bricks encased in 12 BWG galvanised wire 100mm square mesh wire net over a 25mm thick filter bed of sand (minimum FM 2.50) & brick chips (20mm down graded) mixed with proportion 1:1 including necessary earth cutting and fitting, fixing with 750mm long bamboo peg @ 1m c/c, dressing, leveling, compacting, etc. all complete in all respect as per approved design, specification and direction of E-I-C. Rate is inclusive of cost of materials, labour, equiptment & machinery, work at all leads and lifts, loading & unloading, transportation and all incidental charges in this connection.					
4.14.03.01	Single Layer Soling of 1st Class/ picked bricks	sqm	1,215.76	1,211.08	1,177.75	1,177.27
4.14.03.02	Double Layer Soling of 1st Class/ picked bricks	sqm	1,816.80	1,810.08	1,750.99	1,750.51
4.14.04	Supplying and placing of required layers of gunny bagged Riprap filled with cement (BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N) and Sand (minimum FM 1.00) mortar (1:8) along slopes of abutments, piers, banks of river/ khal including washing of sand, mixing in standard mixture machine, filled & tamping the bags in place, stitching bags by hand sewing machine, curing by sprinkling water over the bags including preparation of slope (bed) by cutting or filling with ramming the filled up earth to the same profile as that of the finished slope level, placing the filled gunny bags along the slope, etc. all complete in all respect as per approved design, specification and direction of the E-I-C. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.					
4.14.04.01	Single layer of Gunny Bagged Riprap	sqm	768.02	763.80	739.53	739.53
4.14.04.02	Two layers of Gunny Bagged Riprap	sqm	1,478.02	1,470.73	1,427.35	1,427.35
4.14.05	Supplying best quality sal/ sundari/ gazari/ sonali/ tetul/ Jam etc. bullah piles free from rots, knots, sap and uniform in size at work site including carrying, stacking, etc. all complete as per direction of the Engineer-in-Charge. Before any piling work is commenced the contractor shall submit to the engineer full details of the pile driving equipment and the method he intends to use in carrying out the work. Diameter of bullah pile to be measured at a distance of 1.5m from the thicker end.					
4.14.05.01	Bullah piles of 150mm to 200mm diameter	m	344.28	344.03	335.46	335.46
4.14.05.02	Bullah piles of 200mm to 250mm diameter	m	605.33	605.08	604.07	604.07
4.14.06	Labour for handling and driving best quality bullah piles up to required depth by monkey/ power winch in all sorts of soil including hoisting and placing piles in position, protecting the pile head with steel cap, hire charge for necessary driving appliances, cutting & shaping heads before and after driving etc. complete in all respect as per direction of the Engineer-in-Charge. Payment to be made on the length driven into the ground. Note: Water jet machine shall not be used in the pile driving process.					
4.14.06.01	Bullah piles of 150mm to 200mm diameter					
4.14.06.01.01	For driving from ground with staging	m	314.65	309.10	288.16	288.16
4.14.06.01.02	For driving from pontoon or boats with staging	m	327.23	321.46	299.69	299.69
4.14.06.01.03	For driving from pontoon or boats with heavy staging	m	336.67	330.74	308.34	308.34
4.14.06.02	Bullah piles of 200mm to 250mm diameter					
4.14.06.02.01	For driving from ground with staging	m	460.94	452.61	421.21	421.21
4.14.06.02.02	For driving from pontoon or boats with staging	m	479.37	470.72	438.06	438.06
4.14.06.02.03	For driving from pontoon or boats with heavy staging	m	493.20	484.30	450.70	450.70

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.14.07	Providing & Installtion of 100mm x 200mm x 8mm steel joist or any other required steel sections of 7.62m length @ 200mm c/c for Shore protection work during excavation in foundation trenches to protect the adjacent property including rent, conveyance, labour, material for cutting to required size & for driving the same upto required depth including cost of all fittings etc. complete as per direction of the E-I-C. The contractor will remove the joists after completing the work without any extra payment & the contractor will be the owner of these joists. Note: Measurement shall be based on lengths of protection work in horizontal direction.	m	30,958.25	30,799.35	30,329.27	30,329.27
4.14.08	Supplying & dumping of soil filled geo-textile bags of different size and capacity (fill volumn and weight when filled with dry sand/earth) at the specified locations along the bottom of piles of piers/ toe line properly including supply of geo-textile fabric as per following grading, sewing in accordance with the detailed drawing and technical specifications, protecting the geo-textile bags from UV ray or any other damages, filling with suitable soil/ sand and stitching bags by hand sewing machine properly with plastic thread and dumping the same in position etc. including cost of all materials, labours, taxes, incidental charges etc. complete in all respect as per approved drawing, specification and direction of E-I-C.					
4.14.08.01	Geo-Textile Bag: Empty Size: 800mm x 650mm, Fill Volumn: 0.0520 cum & Weight: 80 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	253.04	252.25	249.16	249.16
4.14.08.02	Geo-Textile Bag: Empty Bag Size: 900mm x 700mm, Fill Volumn: 0.0730 cum & Weight: 110 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	302.47	301.55	297.89	297.89
4.14.08.03	Geo-Textile Bag: Empty Bag Size: 950mm x 750mm, Fill Volumn: 0.0840 cum & Weight: 125 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	340.06	339.00	334.79	334.79
4.14.08.04	Geo-Textile Bag: Empty Bag Size: 1075mm x 850mm, Fill Volumn: 0.1164 cum & Weight: 175 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	423.11	421.92	417.14	417.14
4.14.08.05	Geo-Textile Bag: Empty Bag Size: 1100mm x 850mm, Fill Volumn: 0.1333 cum & Weight: 200 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	438.71	437.38	432.07	432.07
4.14.08.06	Geo-Textile Bag: Empty Bag Size: 1300mm x 1050mm, Fill Volumn: 0.1664 cum & Weight: 250 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	600.95	599.50	593.66	593.66
4.14.09	Providing, preparing and laying of geogrid crated apron 1 m x 5 m, 600 mm thick including excavation and backfilling with baffles at 1 m interval, made with geogrids having , joining sides with connectors/ring staples, top corners to be tie tensioned, placing of suitable cross interval ties in layers of 300 mm connecting opposite side with lateral braces and tied with polymer braids to avoid bulging, filled with stone with minimum size of 200 mm and specific gravity not less than 2.65, packed with stone spalls, keyed to the foundation recess in case of sloping ground and laid over a layer of geotextile to prevent migration of fines, all as per approved design and direction of E-I-C	cum	16,336.28	16,716.13	14,328.24	15,016.81
4.14.10	Construction of single/ double row bamboo spur, with full length borak bamboo of specified dia. & length, at 0.3m c/c, two rows at 1.5m apart (not applicable for single row spur) and stays with bamboo at 3 m apart on the D/S side of the spur, single/ double (for length > 6m) row runner with half split bamboo on both sides and also with double layer cross tie at 3.0m interval, including 2.4m to 3.0m driving of bamboo pins by monkey hammer, necessary staging etc. complete with supply of all materials including local carriage within 150m and as per drawing and direction of E-I-C.					
4.14.10.01	Single bamboo spur: dia. = 75mm, Length = 6.0m to 7.5m	m	2,646.69	2,635.08	2,588.63	2,588.63

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1	2	3	4	5	6	7
4.14.10.02	Double row bamboo spur: dia. = 75mm, Length = 3.0m to 4.5m	m	2,540.81	2,527.57	2,474.60	2,474.60
4.14.10.03	Double row bamboo spur: dia. = 75mm, Length = 4.5m to 6.0m	m	4,208.19	4,183.56	4,085.04	4,085.04
4.14.10.04	Double row bamboo spur: dia. = 100mm, Length = 7.5m to 11.0m	m	6,453.45	6,426.53	6,318.84	6,318.84
4.14.11	Construction of a narrow filter sub- surface drain consisting of porous or perforated pipe laid in narrow trench surrounded by a geotextile filter fabric, with a minimum of 450 mm overlap of fabric and installed including excavation and backfilling.	m	942.81	929.57	890.50	890.50
4.14.12	JGT_RRC: Supplying and laying of woven type untreated double warp plain weave jute geo-textile (JGT) of different grades conforming to BDS 1909: 2016 for strengthening subgrade of Road & Bridge approach including local handling, unrolling, placing in position, ensuring proper drapability (JGT should touch the ISG surface at all points), stapling JGT by 6mm dia. U-shapped pegs/ hooknails or 37mm long mushroom shaped nails at an interval of 300mm with overlaps of 100mm, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-A (JGT Installation Guideline for Rural Road Construction) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					
4.14.12.01	JGT_RRC-1 : Applicable for Strengthening subgrade of Village Roads. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 85 x 32, Width(m) ≥ 1, Mass per unit area (gsm) = 627 ± 10%, Thickness under 2 kPa pressure (mm) = 2.0 ± 10%, AOS (O95) (µm) ≤ 450, Vertical Permeability (m/sec) ≥ 3.0 x10-3, Horizontal Permeability (m/sec) ≥ 7.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 850 x 200, Grab Tensile Elongation (%) MD x CD ≤ 30 x 35, CBR Puncture Resistance (N) ≥ 2000, Wide Width Tensile Strength (kN/m) MD x CD ≥ 20 x 10, Wide Width Elongation (%) MD x CD ≤ 12 x 10.	sqm	186.74	186.18	184.66	184.66
4.14.12.02	JGT_RRC-2 : Applicable for Strengthening subgrade of Union or Higher Roads. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 94 x 39, Width(m) ≥ 1, Mass per unit area (gsm) = 724 ± 10%, Thickness under 2 kPa pressure (mm) = 2.0 ± 10%, AOS (O95) (µm) ≤ 300, Vertical Permeability (m/sec) ≥ 2.0 x10-3, Horizontal Permeability (m/sec) ≥ 6.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 925 x 425, Grab Tensile Elongation (%) MD x CD ≤ 35 x 40, CBR Puncture Resistance (N) ≥ 2150, Wide Width Tensile Strength (kN/m) MD x CD ≥ 25 x 10, Wide Width Elongation (%) MD x CD ≤ 15 x 12.	sqm	216.40	215.85	214.32	214.32
4.14.13	JGT_RBP: Supplying and laying of natural additive treated woven type double warp plain weave jute geo-textile (JGT) conforming to BDS 1909: 2016 for river bank and slope protection work including local handling, unrolling, placing in position, ensuring proper drapability (JGT should touch the ground surface at all points), stapling JGT by 6mm dia. U-shapped pegs/ hooknails or 37mm long mushroom shaped nails at an interval of 300mm with overlaps of 100mm, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-B (JGT Installation Guideline for River Bank Protection) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					
4.14.13.01	JGT_RBP-1: Applicable for mild to moderate River Bank Protection work. This type of treated JGT shall have the following requirements. Ends x Picks /dm ≥ 85 x 32, Width(m) ≥ 1, Mass per unit area (gsm) = 627 ± 15%, Thickness under 2 kPa pressure (mm) = 2.0 ± 20%, AOS (O95) (µm) ≤ 150, Vertical Permeability (m/sec) ≥ 1.0 x10-3, Horizontal Permeability (m/sec) ≥ 6.0 x10-3, Grab Tensile Strength (N) MD x CD ≥ 950 x 230, Grab Tensile Elongation (%) MD x CD ≤ 35 x 45, CBR Puncture Resistance (N) ≥ 2500, Wide Width Tensile Strength (KN/m) MD x CD ≥ 20 x 10, Wide Width Elongation (%) MD x CD ≤ 12 x 10.	sqm	252.66	252.10	250.58	250.58

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1	2	3	4	5	6	7
4.14.14	JGT-HSM: Supplying and laying of open mesh Plain Weave jute geo-textile (JGT) commonly known as Soil Saver of different grades conforming to BDS 1909: 2016 for Hill Slope Management work including local handling, unrolling, placing in position, unrolling of JGT in the direction of surface run-off, stapling JGT by 6mm dia. U-shapped hooknails at an interval of 300mm with overlaps of 100mm at the sides and 150mm at the ends, anchoring JGT within a trench at the two ends by filling the trench with big bats/gravel or other suitable materials, ensuring proper drapability (JGT must touch the ground surface at all points), filling drain materials immediately after laying of JGT, protecting the JGT from any other damages etc. all complete in all respect as per instructions given in Annexure-C (JGT Installation Guideline for Hill Slope Management) of BDS 1909 : 2016 and approval of Engineer-In-Charge.					
4.14.14.01	JGT_HSM-1: Applicable for Moderate slope (≤35 degree) & annual rainfall ≤ 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 6.5 x 4.5, Width(m) = 1.22, Mass per unit area (gsm) = 500 ± 10%, Thickness under 2 kPa pressure (mm) = 4.5 ± 10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 6.5 x 6.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	71.38	70.82	69.29	69.29
4.14.14.02	JGT_HSM-2: Applicable for Moderate slope (≤35 degree) & annual rainfall ≥ 2000mm and steep stope (>35 degree to ≤ 45 degree) & annual rainfall ≤ 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 8 x 7, Width(m) = 1.22, Mass per unit area (gsm) = 600±10%, Thickness under 2 kPa pressure (mm) = 5.5±10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 12.0 x 6.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	76.32	75.76	74.24	74.24
4.14.14.03	JGT_HSM-3: Applicable for steep stope (>35 degree to ≤ 45 degree) & annual rainfall > 2000mm. This type of JGT shall have the following requirements. Ends x Picks /dm ≥ 8 x 8, Width(m) = 1.22, Mass per unit area (gsm) = 700±10%, Thickness under 2 kPa pressure (mm) = 5.5±10%, Water Holding Capacity (% by weight) ≥ 400, Wide Width Tensile Strength (kN/m) MD x CD ≥ 14.0 x 7.0, Wide Width Elongation (%) MD x CD ≤ 14.0 x 14.0.	sqm	81.26	80.71	79.18	79.18
4.14.15	Arrangement of necessary construction materials at work site including, carrying, stacking, handling etc. all complete as per direction of the E-I-C.					
4.14.15.01	MS pipe of 100mm diameter & 4mm wall thickness					
4.14.15.01.01	For permanent use, cost of MS pipe is included in this unit rate.	m	1,893.56	1,893.56	1,893.56	1,893.56
4.14.15.01.02	For temporary use, rent of MS pipe is included in this unit rate.(all hiring charge & maintaining the same till the completion of the work.)	m	59.59	59.59	59.59	59.59
4.14.15.02	MS pipe of 150mm diameter & 4mm wall thickness					
4.14.15.02.01	For permanent use, cost of MS pipe is included in this unit rate.	m	3,376.63	3,376.63	3,376.63	3,376.63
4.14.15.02.02	For temporary use, rent of MS pipe is included in this unit rate.(all hiring charge & maintaining the same till the completion of the work.)	m	86.07	86.07	86.07	86.07
4.14.15.03	MS pipe of 200mm diameter & 6.5mm wall thickness					
4.14.15.03.01	For permanent use, cost of MS pipe is included in this unit rate.	m	5,112.61	5,112.61	5,112.61	5,112.61
4.14.15.03.02	For temporary use, rent of MS pipe is included in this unit rate. (all hiring charge & maintaining the same till the completion of the work.)	m	152.28	152.28	152.28	152.28
4.14.15.04	MS pipe of 300mm diameter & 10 mm wall thickness					
4.14.15.04.01	For permanent use, cost of M S pipe is included in this unit Rate	m	9,511.49	9,511.49	9,511.49	9,511.49

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.14.15.04.02	For temporary use, rent of MS pipe is included in this unit rate.(all hiring charge & maintaining the same till the completion of the work.)	m	556.15	556.15	556.15	556.15
4.14.15.05	Supplying best quality of MS angle,Plate,Nut Bolt, Stifinner, I-Beam at work site including, carrying, stacking, handling etc. all complete as per direction of the E-I-C.etc					
4.14.15.05.01	For permanent use, cost of MS angle,Plate,Nut Bolt, Stifinner, I-Beamt etc	kg	103.55	103.55	103.55	103.55
4.14.15.05.02	For temporary use, rent of MS angle,Plate,Nut Bolt, Stifinner, I-Beam etc is included in this unit rate.(all hiring charge & maintaining the same till the completion of the work.	kg	26.11	26.11	26.11	26.11
4.14.15.06	Labour cost for fitting, fixing, erection, removing and welding of MS angle, Plate, Nut Bolt, Stifinner, I-Beam of Steel structure etc.	kg	86.07	86.07	86.07	86.07
4.14.15.07	Supplying best quality Wooden Plank,Btten ctc (Jarul & Local Shal wood) at work site including, carrying, stacking, handling etc. all complete as per direction of the E-I-C.					
4.14.15.07.01	For permanent use, cost of Wood is included in this unit Rate	cum	106,187.09	101,575.61	108,171.51	108,171.51
4.14.15.07.02	For Temporary use, Rent of Wood is included in this unit Rate (all hiring charge & maintaining the same till the completion of the work.)	cum	20,749.25	20,749.25	20,429.24	20,429.24
4.14.16	Labour for driving MS steel pipes of any size up to required depth with monkey, power winch etc. including all necessary tools, equipment and accessories and hoisting piles in true & vertical position etc. all complete as per direction of E-I-C.	m	453.20	449.22	436.64	436.64
4.14.17	Labour for extraction of MS steel/ micro pipes of any size with monkey, power winch etc. including all necessary tools, equipment and accessories all complete as per direction of E-I-C.	m	363.15	359.18	346.60	346.60
4.14.18	Labour charge for taking out bullah from river bed (measurement for the driven portion to be taken only); or cross ties walling pieces, including cutting and opening out bolts and nuts; or old bamboo pieces and struts from river bed and stacking the materials on the bank as per direction of E-I-C.					
4.14.18.01	Bullah	m	69.19	67.93	62.90	62.90
4.14.18.02	Cross ties walling pieces	m	18.21	17.88	16.55	16.55
4.14.18.03	Old bamboo pieces and struts	m	14.57	14.30	13.24	13.24
Section-15: Railing, Painting & Other Bridge Appurtenances						
4.15.01	Providing and erecting a "W" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal beam rail, 70 cm above road/ground level, fixed on channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high, 1.10 m below ground/road level, all steel parts and fittings to be galvanised by hot dip process (zinc coated, 550 gsm, minimum single spot), all fittings to conform to AASHTO M 180, metal beam rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 330 mm long etc. all complete as per specification & direction of the Engineer in charge.	m	8,077.85	8,070.84	8,050.53	8,050.53
4.15.02	Providing and erecting a "Thrie" metal beam crash barrier comprising of 3 mm thick corrugated sheet metal rail, 70 cm above road/ground level, fixed on channel vertical post, 150 x 75 x 5 mm spaced 2 m centre to centre, 1.8 m high with 1.15 m below ground level, all steel parts and fitments to be galvanised by hot dip process (zinc coated, 550 gsm, minimum single spot), all fittings to conform to AASHTO M 180, metal rail to be fixed on the vertical post with a spacer of channel section 150 x 75 x 5 mm, 546 mm long etc. all complete as per specification & direction of the E-I-C.	m	10,214.93	10,208.49	10,189.80	10,189.80

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.15.03	Supplying fitting and fixing railing & rail post made of various dia MS pipes of standard thickness for normal, ornamental Bridge or any other structure including required ms plate, nutbolt, cutting, welding, painting with anticorrosive paint, laying in position etc. all complete as per design, drawing, spacification & the direction of the E-I-C.					
4.15.03.01	50mm dia. and wall thickness 4mm	m	979.73	975.00	967.90	967.90
4.15.03.02	75mm dia. and wall thickness 4mm	m	1,494.42	1,489.69	1,482.59	1,482.59
4.15.03.03	100mm dia. and wall thickness 4mm	m	2,396.11	2,391.38	2,384.29	2,384.29
4.15.03.04	150mm dia. and wall thickness 4mm	m	4,161.67	4,156.94	4,149.84	4,149.84
4.15.03.05	200mm dia. and wall thickness 6.5mm	m	6,228.31	6,223.58	6,216.49	6,216.49
4.15.04	Supplying fitting and fixing railing & rail post made of various size MS Square Box of standard thickness for normal & ornamental Bridge or any other structure, including required ms plate, nut-bolt, cutting, welding, painting with anticorrosive paint, laying in position, etc. all complete as per design, drawing, spacification & the direction of the E-I-C.					
4.15.04.01	Size: 25mm x 25mm MS box and wall thickness 4mm	m	748.78	744.06	736.96	736.96
4.15.04.02	Size: 40mm x 40mm MS box and wall thickness 4mm	m	965.54	960.81	953.72	953.72
4.15.04.03	Size: 50mm x 50mm MS box and wall thickness 6mm	m	1,650.48	1,645.75	1,638.66	1,638.66
4.15.04.04	Size: 62.5mm x 62.5mm MS box and wall thickness 6mm	m	1,962.60	1,957.88	1,950.78	1,950.78
4.15.04.05	Size: 75mm x 75mm MS box and wall thickness 8mm	m	3,124.40	3,119.67	3,112.58	3,112.58
4.15.04.06	Size: 100mm x 100mm MS box and wall thickness 8mm	m	4,000.09	3,995.36	3,988.26	3,988.26
4.15.04.07	Size: 125mm x 125mm MS box and wall thickness 8mm	m	4,910.45	4,905.72	4,898.63	4,898.63
4.15.04.08	Size: 125mm x 125mm MS box and wall thickness 10mm	m	5,950.87	5,946.14	5,939.05	5,939.05
4.15.04.09	Size: 150mm x 150mm MS box and wall thickness 8mm	m	5,725.44	5,720.72	5,713.62	5,713.62
4.15.04.10	Size: 150mm x 150mm MS box and wall thickness 10mm	m	6,991.28	6,986.56	6,979.46	6,979.46
4.15.05	Supplying & providing flexible and acrylic type reflectorized traffic painting/ coating on rail post, rail bar, wheel guard, Pier column etc. including surface preparation, applying paint, all materials, labour charges, tools, equipment etc. all complete as per specification & direction of the E-I-C.	sqm	680.55	683.32	666.29	666.29
4.15.06	Lighting on Bridges: Supplying and Installation of mild steel hollow bent light pole of overall length 8.9m having 150mm dia. at bottom & 75mm dia. at top & wall thickness 4mm with base plate 275 x 275x 16mm thick, providing 32mm dia MS/GI pipe for incoming and outgoing cable connection to jucntion box, 20m apart and fitted with pole light fitting, sodium vapour lamp, circuit breaker, bending of steel poles, two coats of silver white aluminium paint over steel pole, steel reducers for changing diameter from 150mm to 75mm, scaffolding, holes at top of the pole for fixing ring type GI braket/ pole light fitting, suitable precautions for ensuring prevention of water ingress etc. all complete in all respect as per design, specification and direction of E-I-C. The cost of pole light fitting, sodium vapour lamp, circuit breaker and cable is not included in this unit rate. Note: Length of pole: 8.9m (Straight portion = 4m of 150mm dia. & bent portion = 4.9m of 75mm dia.)	each	25,666.15	25,659.08	25,632.38	25,632.38

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1	2	3	4	5	6	7
4.15.07	Lighting on Bridge Approaches: Supplying and Installation of mild steel hollow bent light pole of specifiedlength having 150mm dia. at bottom & 75mm dia. at top & wall thickness 4mm with base plate 275 x 275 x 16mm thick, providing 32mm dia MS/GI pipe for incoming and outgoing cable connection to jucntion box, 20m apart and fitted with pole light fitting, sodium vapour lamp, circuit breaker, bending of steel poles, two coats of silver white aluminium paint over steel pole, steel reducers for changing diameter from 150mm to 75mm, laying 500 x 500 x 1200 mm cement concrete block in the ratio 1:3:6 and block be continued up to 300mm above the ground level i.e. 900mm below ground level including excavation, centering, shuttering and refilling, providing props for pole, holes at top of the pole for fixing ring type GI braket/ pole light fitting etc. all complete in all respect as per design, specification and direction of E-I-C. The cost of pole light fitting, sodium vapour lamp, circuit breaker and cable is not included in this unit rate.					
4.15.07.01	Pole with double arm if fixed in the median Note: Length of pole: 12.9m (Straight portion = 5.0m of 150mm dia. & bent portion on both sides = 7.9m of 75mm dia.)	each	34,003.20	33,994.19	33,960.59	33,960.59
4.15.07.02	Pole with single arm if fixed on the footpath Note: Length of pole: 9.9m (Straight portion = 5.0m of 150mm dia. & bent portion = 4.9m of 75mm dia.)	each	29,864.42	29,855.42	29,821.81	29,821.81
4.15.08	Construction of pre-cast/ Cast-in-situ RCC Railing of 25 Mpa strength having aggregate size not exceeding 12mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 1500mm, leaving adequate space between vertical post for expansion, complete as per Guideline for Bridge Design of LGED, September 2018, approved drawings, technical specification and approval of E-I-C. The cost of reinforcement and it's fabrication, binding, welding and placing is included in this unit rate.					
4.15.08.01	Pre-cast RCC Railing of 25 MPa concrete	m	4,781.76	4,773.84	4,669.58	4,690.39
4.15.08.02	Cast-in-Situ RCC Railing of 25 MPa concrete	m	4,339.82	4,332.75	4,243.22	4,260.77
4.15.09	Supplying fitting and fixing railing & rail post made of various dia Stainless Steel (SS) pipes of standard thickness for normal , ornamental Bridge or any other structure including required SS plate, nutbolt, cutting, welding, laying in position etc. all complete as per design, drawing,spacification & the direction of the Engineer in charge.					
4.15.09.01	25mm dia. and wall thickness 2.00mm	m	705.43	700.70	693.61	693.61
4.15.09.02	38mm dia. and wall thickness 2.5mm	m	1,373.03	1,368.31	1,361.21	1,361.21
4.15.09.03	50mm dia. and wall thickness 2.50mm	m	1,806.54	1,801.81	1,794.72	1,794.72
4.15.09.04	62.50mm dia. and wall thickness 3.00mm	m	2,656.22	2,651.49	2,644.39	2,644.39
4.15.09.05	75mm dia. and wall thickness 3.00mm	m	3,089.72	3,084.99	3,077.90	3,077.90
4.15.09.06	100mm dia. and wall thickness 3.00mm	m	4,390.24	4,385.51	4,378.42	4,378.42
4.15.09.07	125mm dia. and wall thickness 3.00mm	m	5,690.76	5,686.03	5,678.94	5,678.94
4.15.10	Supplying fitting and fixing railing & rail post made of various size Stainless Steel (SS) Square/Rectangular Box of standard thickness for normal & ornamental Bridge or any other structure, including required SS plate, nutbolt, cutting, welding, laying in position, etc. all complete as per design, drawing, spacification & the direction of the Engineer in charge.					
4.15.10.01	Size: 25mm x 25mm Stainless Steel box and wall thickness 2.00mm	m	1,130.27	1,125.54	1,118.45	1,118.45
4.15.10.02	Size: 32mm x 32mm Stainless Steel box and wall thickness 1.50mm	m	1,104.26	1,099.53	1,092.44	1,092.44

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1	2	3	4	5	6	7
4.15.10.03	Size: 38mm x 38mm Stainless Steel box and wall thickness 2.50mm	m	1,728.51	1,723.78	1,716.69	1,716.69
4.15.10.04	Size: 50mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	2,136.01	2,131.28	2,124.18	2,124.18
4.15.10.05	Size: 62.5mm x 62.5mm Stainless Steel box and wall thickness 2.00mm	m	2,734.25	2,729.52	2,722.42	2,722.42
4.15.10.06	Size: 50mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	1,321.01	1,316.28	1,309.19	1,309.19
4.15.10.07	Size: 75mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	1,719.84	1,715.11	1,708.02	1,708.02
4.15.10.08	Size: 75mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	2,578.18	2,573.45	2,566.36	2,566.36
4.15.10.09	Size: 100mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	3,202.43	3,197.70	3,190.61	3,190.61
4.15.11	Painting on Concrete Surface: Providing and applying 2 coats of water based cement paint of approved quality to unplastered concrete surface after cleaning, washing, brushing and sand/grit blasting the surface of dirt, dust, oil, grease, efflorescence and applying paint @ 1 litre for 2 sqm including cost of all materials, labour, transportation, scaffolding etc. complete as per specifications and direction of the E-I-C. Paint shall be got approved from the E-I-C and tested from approved laboratory.	sqm	90.74	89.79	87.52	87.52
4.15.12	MS Railing: Providing, fitting and fixing in position mild steel railing over RCC crash barrier including support angle/ fixtures as per detailed drawings, specifications and direction of E-I-C. Cost of material for painting one shop coat with red oxide primer and 3 costs of synthetic enamal paint & consumables to safeguard against weathering and corrosion is included in this unit rate.					
4.15.12.01	MSR100MC: 100mm dia MS pipe of 4.50mm wall thickness conforming to BDS 1031/ BS 1387 Medium Class specifications.	m	3,859.93	3,846.43	3,810.81	3,810.81
4.15.14	RS: Supplying, fitting and fixing of Reflecting Studs of minimum 115mm x 81mm x17mm of approved brand and colour, including cleaning and washing the railing surface, drilling to accept concrete nail, application of epoxy adhesive/ putty and necessary scaffolding, etc. including carriage and fixing, etc. all complete in all respect as per approved drawing, specification and direction of Engineer-in-charge. Rate is inclusive of cost of all materials, labour and all incidental charges in this connection.	each	1,159.68	1,158.06	1,155.63	1,155.63
4.15.15	FMM: Supply and fixing of Flexible Median Markers (FMM) made of tough high impact resistance injection moulded thermoplastic body of standard size and thickness with fluorocent yellow colour type XI retroreflective sheeting fixed on both sides, fixed with epoxy adhesive and grouting to the surface complete in all respect as per national accrediation institution and the direction of the E-I-C.	each	530.85	530.05	527.53	527.53
4.15.16	Bollard: Supplying, fitting and fitting Bollard in exact positions as per drawing, specificatons and direction of the E-I-C including cost of all materials, labour, carrying etc. [This fender shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]	kg	194.95	194.91	194.73	194.73
4.15.17	Rubber Fender: Supplying, and installation of Rubber Fender of specified size in exact positions as per drawing, specificatons and direction of the E-I-C including cost of all materials, labour, machines, transportation etc. [This fender shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]					
4.15.17.01	RF-D: D-Type Rubber Fender of Length = 1000mm, Width = 300mm and Height = 300mm	each	75,219.43	75,209.74	75,179.04	75,179.04
4.15.17.02	RF-Arc: Arc Type Rubber Fender					
4.15.17.02.01	RF-Arc-1: Length = 1580mm, Width = 1400mm and Height = 840mm	each	500,480.53	500,472.78	500,448.22	500,448.22
4.15.17.02.02	RF-Arc-2: Length = 1000mm, Width = 606mm and Height = 400mm	each	371,216.64	371,208.89	371,184.33	371,184.33

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1	2	3	4	5	6	7
4.15.17.03	RF-Wing: Wing Type Rubber Fender of Length = 1000mm, Width = 600mm and Height = 300mm	each	96,808.72	96,800.97	96,776.41	96,776.41
Section-16: Repair & Rehabilitation						
4.16.01	Lifting of Super-Structure of Bridge for resetting if required/ refixing of new bearing including removal of old bearings and including all higher and runing expenses of all plants, jacks, machines and equipment, temporary supports, required for keeping the super-structure in lifted position for completing the operation, lowering of super-structure on bearings and without causing any detrimental effect to any part of the bridge structure, diversion of traffic if necessary etc. all complete as per design, drawing, specification & direction of E-I-C. The cost of replaced bearings has not been included in this rate. The work entails replacement of all the bearings on one side of the span.					
4.16.01.01	Span up to 20 m	per end	6,545.17	6,469.50	6,204.67	6,204.67
4.16.01.02	Span beyond 20 m and upto 30 m	per end	7,377.50	7,301.83	7,037.00	7,037.00
4.16.01.03	Span beyond 30 m	per end	10,706.83	10,631.17	10,366.33	10,366.33
4.16.02	Removal of existing cement concrete/ bituminous wearing course over existing bridge deck including its disposal as per direction of E-I-C without causing any detrimental effect to any part of the bridge structure and removal of dismantled material with all lifts and lead upto 1 km. The dismantled materials must be dumped in an unobjectionable place outside the site premises with minimum traffic disruption and the procuring entity will not be responsible for any irregularities by the party regarding dumping of the materials.					
4.16.02.01	Cement concrete wearing course of avg. 75mm thick	sqm	824.51	816.95	789.83	789.83
4.16.02.02	Bituminous wearing course of avg. 50mm thick asphaltic concrete laid over 12 mm thick mastic asphalt	sqm	755.15	748.85	726.78	726.78
4.16.03	Sealing of cracks/ porous concrete by injecting grout through nipples including cleaning the affected area by wire brush, compressed air, 15mm dia and 150 to 200mm deep holes along the length of the cracks at a spacing of 500mm may be drilled by wet drilling using rotary percussion drills and nipples, inerterd in these holes. Only non-shrink grout admixture conforming to ASTM C 1107 has been included in this unit rate. Where necessary and approved by the Engineer, admixutures to protland cement grout mixtures may be added for delaying the setting time, increasing flow ability, minimising segregation and shrinkage, not being added to the analysis.					
4.16.03.01	Cement Grout	kg	346.89	339.32	318.51	318.51
4.16.03.02	Cement Mortar (1:1) Grout	kg	357.86	350.58	329.39	329.39
4.16.04	Sealing of cracks/ porous concrete by injection of epoxy resin through nipples including cleaning the affected surfaces adjacent to cracks or other areas of application from dirt, grease, oil efflorescence or other foreign matter by brushing/ water jetting/ sand blasting. Just before use, the two components i.e. resin and hardeer, shall be thoroughly mixed in the ratios specified by the manufacturer. Acids and corrosives shall not be permitted for cleaning. Epoxy adhesive injection shall be performed until crakcs are complely filled. The Contractor shall furnish detailed methodology of construction including source of supply of material, tools, equipment and appliances to be used on work, details of personel and supervision and take approval from Design Unit, LGED.	kg	1,237.15	1,229.58	1,208.78	1,208.78

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1	2	3	4	5	6	7
4.16.05	Shotcrete/ guniting concrete surface with 40mm thick (avg.) cement mortar comprising of cement, graded sand conforming to ASTM C 33, coarse aggregate (20 to 40% of total aggregate for thick sections if adequate guniting equptment is available), water and quick setting compound conforming to ASTM C 1141 in the proportion as per guidence of Central Quality Control Laboratory (CQCL), LGED or any approved laboratory instructed by Engineer-in-Charge, water cement ratio ranging from 0.35 to 0.5, density of shotcrete/ gunite not less than 2000kg/cum, strength not less than 25 MPa, applied with compressed air under pressure after cleaning removing old guniting/ part of defective concrete, cleaning the surface and exposed reinforcement thoroughly by sand blasting, spraying with epoxy conforming to ASTM C 881 @ 67 kg/sqm including cost of wire mesh fabrics 50mm x 50mm x 10 BWG in first layer of guniting complete as per drawings & direction of E-I-C. Wherever the reinforcement have been corroded, the same shall be removed and replaced by additional reinforcement.	sqm	2,150.64	2,141.29	2,120.43	2,119.32
4.16.06	Patching of damaged concrete surface with 25mm thick (avg.) polymer concrete and curing compounds, initiator and promoter, available in present formulations, to be applied as per instructions of manufacturer and as approved by the E-I-C. This item is a proprietory item available in market as pre-packed polymer concrete and is required to be applied as per instructions of the manufacturer.	sqm	13,158.74	13,154.95	13,144.74	13,144.74
4.16.07	Providing and applying 10mm thick (avg.) pre-packed cement based polymer mortar of strength 45 MPa at 28 days by trowels & float over the spalled concrete for bridge deck, pier cap etc. including scaffolding, shuttering, supplying required material including polymer etc. complete as per the specification & as directed by E-I-C. Primer coat by Nylon brush must be applied on the spalled out concrete location before applying polymer mortar.					
4.16.07.01	Average Thickness = 10mm thick	sqm	5,688.79	5,678.20	5,642.44	5,642.44
4.16.07.02	Average Thickness = 25mm thick	sqm	13,026.00	13,012.76	12,969.72	12,969.72
4.16.08	EBA: Providing & applying epoxy bonding agent conforming to ASTM C 881/ AASHTO M 235 to exposed old concrete surfaces for bonding of freshly mixed concrete to hardened concrete at the rate of 0.80 Kg/sqm or as per manufacturer's recommendation with pot life not less than 60-90 minutes at normal temperature including cost of materials, storage, labour, tools, lead lifts, preparation of surface, cleaning the surface, tackles etc. complete as per manufacturer's specification and as directed & instructed by Engineer-In-charge.	sqm	1,276.54	1,269.98	1,245.39	1,245.39
4.16.09	Applying epoxy mortar over leached, honey combed and spalled concrete surface and exposed steel reinforcement complete as per direction of E-I-C. Thickness of epoxy mortar shall not be less than 10mm	sqm	976.74	970.12	945.29	945.29
4.16.10	Replacement of Expansion Joints including removal and replacement of 300 mm wide portion of a existing deck slab to accommodate expansion joint, cleaning by blower, fabrication of additional reinforcement (if required), applying epoxy bonding agent for old to new concrete conforming to ASTM C 881, concreting with 35 MPa concrete after fixing the expansion joint complete as per manufacture specifications & direction of E-I-C. The cost of admixture & epoxy required for this work has been included in this analysis. The rate for the installation of new exapansion joints may be taken from the chapter 11 on Bridge Works.	m	4,479.39	4,454.44	4,204.47	4,235.94

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1	2	3	4	5	6	7
4.16.11	Clearing slab/ box/ pipe culverts including cleaning and reshapping of both upstream and down stream faces of existing culvert with in right of way by removing deposited debris, silt, soil and any other foreign material. The job includes safe disposal of excess material recovered from site including vegetation outside ROW with all leads and lifts complete in all respect as per direction of Engineer In-Charge. Frequency of cleaning will be one time in a year i.e. before start of monsoon.	cum	214.60	211.51	201.36	201.36
4.16.12	Carrying out proper cleaning of carriageways, footpaths, verges, expansion joints (for free movement), drainage spouts of bridge including removal and disposal of trash, plastic, vegetation etc. from site outside ROW complete as per direction of E-I-C. Frequency of cleaning will be two times in a year i.e. before and after the monsoon.	rm	37.08	36.28	33.77	33.77
4.16.13	Replacement of Damaged RCC Railing of 25 MPa strength having aggregate size not exceeding 12mm, true to line and grade, tolerance of vertical RCC post not to exceed 1 in 500, centre to centre spacing between vertical post not to exceed 1500mm, leaving adequate space between vertical post for expansion, complete as per Bridge Design Guideline For LGED 2018, approved drawings, technical specification and approval of E-I-C. The cost of reinforcement and it's fabrication, binding, welding and placing is included in this unit rate.	m	4,890.93	4,877.05	4,761.53	4,779.08
4.16.14	Carrying out repair of RCC railing of 25 MPa concrete to bring it to the original shape including dismantling and trimming the surface to a regular shape and removal of damaged material as per Bridge Design Standard for LGED, 2012 and direction of E-I-C. [Note: It is assumed that damage is to the extent of 10%]	m	363.25	362.35	352.29	354.18
4.16.15	Micro Concrete Work: Providing and laying in position Micro concrete having minimum compressive strength 50 MPa after 28 days (as per ASTM C 109), tensile strength 2 MPa after 28 days (as per ASTM C 307) and flexular strength 5 MPa after 28 days (as per ASTM C 580), cement based prepacked single component, chloride free, non shrink, free flow, self compacting, ready to use after mixing water in specified proportion obtained from approved manufacture including water tight shuttering and scaffolding etc. complete as per specification and as per direction of Engineer-in-charge.	cum	150,556.88	150,501.23	149,532.50	149,714.02
4.16.16	Chemically Bonded Anchor: Providing and fixing reinforcing bars by drilling holes up to specified depth and fixing required diameter anchor rods at every specified spacing on the surfaces of the slabs, columns, beams as the case may be, clean the same using water and make sure that there are no fine particles present in the hole, mix the base and hardener of the polyester resin with the spatula thoroughly, fill the drilled and cleaned holes to a maximum depth of 2/3rd of the hole with the prepared polyester resin, make sure that the resin has reached till the end of the hole. At this stage push the shear connector gently in to the hole and finish the excess resin which comes out of the hole and allow the shear connectors not to be disturbed for minimum 20 minutes, complete in all respect and direction of E-I-C. The cost of reinforcement is not included in this unit rate.					
4.16.16.01	CBA_8: Diameter of Rebar = 8mm, minimum drilling diameter = 14mm, minimum drilling depth = 80mm	each	85.78	85.43	84.02	84.02
4.16.16.02	CBA_10: Diameter of Rebar = 10mm, minimum drilling diameter = 14mm, minimum drilling depth = 90mm	each	146.66	146.06	143.66	143.66
4.16.16.03	CBA_12: Diameter of Rebar = 12mm, minimum drilling diameter = 16mm, minimum drilling depth = 110mm	each	205.25	204.40	201.05	201.05
4.16.16.04	CBA_16: Diameter of Rebar = 16mm, minimum drilling diameter = 20mm, minimum drilling depth = 125mm	each	285.24	284.07	279.41	279.41
4.16.16.05	CBA_20: Diameter of Rebar = 20mm, minimum drilling diameter = 25mm, minimum drilling depth = 170mm	each	641.65	639.03	628.51	628.51

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1	2	3	4	5	6	7
4.16.16.06	CBA_25: Diameter of Rebar = 25mm, minimum drilling diameter = 32mm, minimum drilling depth = 250mm	each	1,710.74	1,703.73	1,675.71	1,675.71
4.16.16.07	CBA_32: Diameter of Rebar = 32mm, minimum drilling diameter = 40mm, minimum drilling depth = 300mm	each	2,566.42	2,555.92	2,513.87	2,513.87
4.16.17	EP: Providing external prestressing with high tensile steel wires/strands including drilling for passage of prestessing steel, all accessories for stressing and stressing operation and grouting complete as per drawing and Technical specification. [This item shall be selected as per instruction given in the drawing & after getting approval from Desing Unit, LGED.]					
4.16.17.01	EP_25m: Span assumed: 25 m (12.7mm dia. Strand in 12T13/12K13 system. Weight-9.42 kg/m of cable.)	MT	562,568.20	562,230.72	560,703.77	560,703.77
4.16.17.02	EP_50m: Span assumed: 50 m (12.7mm dia. Strand in 19T13/19K13 system. Weight-14.73 kg/m of cable.)	MT	1,706,844.02	1,705,966.29	1,702,204.14	1,702,204.14
4.16.18	Rust Removal: Cleaning of reinforcement from rust from the reinforcing bars to give it a total rust free steel surface by using alkaline chemical rust remover of approved make with paint brush and removing loose particles after 24 hours of its application with wire brush and thoroughly washing with water and allowing it to dry, all complete as per direction of Engineer-In-Charge.					
4.16.18.01	RR_12: Bars up to 12 mm diameter	m	11.16	11.14	10.93	10.93
4.16.18.02	RR_12+: Bars above 12 mm diameter	m	22.27	22.22	21.80	21.80
4.16.19	SC: Providing and Appying average 1mm thick pre-packed Polymer modified cement based skim-coat for filling blowholes, non-structural honeycomb and rectifying other surface imperfections in newly placed concrete surfaces and achieving a smooth finish on precast, cast in place, tilt up or other unfinished concrete sufaces; including cleaning the surface thoroughly using stiff brush to remove dust, loose particles, oil etc., neutralizing the surface by applying potable water, ensuring saturated surface dry (SSD) condition of the concrete surface, mixing powder with potable water in a drum by blending machine, spreading the mixture to any concrete surface using trowel to get smooth suface etc. all complete as per specification and direction of E-I-C. This is avilable in market as pre-packed and is required to be applied as per instruction of the manufacturer. Proper curing method should be applied for at least 3 days, all complete as per specification and direction of E-I-C.	sqm	1,435.40	1,435.40	1,415.53	1,415.53
4.16.20	CFL: Supply and installation of ready to use Carbon Fiber Laminates for strenghtening reinforced concrete structures having density ≥ 1.61 gm/cm3, width = 100mm, thickness ≥ 1.2mm, modulus of Elasticity ≥ 165 GPa, tensile strength ≥ 2800 MPa, elongation at break ≥ 1.4%; including surface preparation by application of grinding work, patch mortar, primer and epoxy putty etc. all complete as per specification and direction of E-I-C. Note: The work have to be done by certified/trained applicator.	m	17,263.88	17,215.64	17,074.15	17,074.15
4.16.21	CFFS: Supply and installation of Carbon Fibre Fabric Sheets having modulus of elasticity (GPa) ≥ 230, tensile strength (GPa) ≥ 4.9, weight of carbon fibre (gsm) ≥ 200, density (g/cm3) ≥ 1.8, design cross section thickness (mm) ≥ 0.111, elongation at break (%) ≥ 2.1; including surface preparation by application of grinding work, patch mortar, primer and epoxy putty etc. all complete as per specification and direction of E-I-C. Note: The work have to be done by certified/trained applicator.	sqm	13,581.61	13,571.33	13,536.63	13,536.63

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1	2	3	4	5	6	7
4.16.22	LDSS: Providing, fixing and operating Light-Duty Suspended Scaffolding system for repair/ rehabilitation/ retrofitting work made with M.S. Pipe, M.S. clamps, M.S. Chain, M. S. staircase having at least 1.5m wide working platform, adjusted to the required level anytime, hanged or suspended using ropes, chains or any other non-rigid, overhead support and maintaining it in a serviceable condition for the required duration. The Contractor shall take necessary safety measures for the arrangement of suspended scoffolding system and responsible for all obligations. The scaffolding system must be completely shifted on completion of the main component of the structure.					
4.16.22.01	LDSS≤10m: for width of Bridge ≤ 10m.	each/month	143,096.79	142,056.37	138,935.12	138,935.12
4.16.22.02	LDSS>10m: for width of Bridge > 10m.	each/month	167,324.50	166,284.08	163,162.83	163,162.83
4.16.23	Cleaning of exposed concrete surface of sticking material including loose and foreign material by sand blasting with coarse sand followed by and including cleaning with oil free air blast as per direction of Engineer in Charge.	sqm	474.05	463.72	464.25	461.47
4.16.24	TPS: Providing, erecting, maintaining and removing temporary protective screens made out of specified fabric with all necessary fixing arrangement to ensure that it remains in position for the work duration as required by the E-I-C.					
4.16.24.01	TPS_HC: Hessian Cloth	sqm	58.15	58.00	57.39	57.39
4.16.24.02	TPS_PVC: Wooven PVC Cloth	sqm	54.63	54.48	53.87	53.87
4.16.25	SWF: Providing and fixing hard drawn steel wire fabric of size 50 x 25mm mesh or other appropriate size wire mesh to fe fixed and firmly anchored to the concrete surface by means of 'L' shaped mild steel shear key welded with existing reinforcement including the cost of materials, labour, tool & plants as approved by E-I-C.	sqm	614.13	612.68	600.27	600.27
Section-17: Precast Reinforced Concrete Pipes						
4.17.01	Supplying and laying machine made pre-cast RCC pipes with collars of different diameter, length & thickness including screening, grading and washing aggregates with clear water, mixing, laying in steel forms, placing re-bars in position, consolidating, curing for at least 14 days including the cost of formwork, lifting, loading and unloading from factory/ yard, laying in position etc including tools, plants, testing etc. all complete as per direction of the E-I-C. The collars shall be of 200mm wide made by RCC and having the same strength as the pipes to be jointed. The spirals shall end in a complete ring/ turn at both the ends of pipes and collars. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is included in this unit rate.					
4.17.01.01	For Light/ Medium Traffic: Cross drains/ culverts/ outlet and any other works carrying light traffic having suggested mix 1:1.5:3 with cement conforming to BDS EN 197-1 : 2003 CEM II/A-L/M/V/W 42.5N, 20mm down well graded picked brick chips, sand of minimum FM 2.5 to attain a minimum 28 days cylinder strength of 20 MPa.					
4.17.01.01.01	300mm internal dia, wall thickness not less than 50mm, Re-bar for pipe:- circumferential: 10 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	2,095.14	2,081.60	2,027.17	2,026.37
4.17.01.01.02	400mm internal dia, wall thickness not less than 75mm, Re-bar for pipe:- circumferential: 14 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	3,540.20	3,517.29	3,425.01	3,423.37

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.17.01.01.03	500mm internal dia, wall thickness not less than 75mm, Re-bar for pipe:- circumferential: 16 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	4,136.75	4,112.49	4,014.52	4,012.52
4.17.01.01.04	600mm internal dia, wall thickness not less than 85mm, Re-bar for pipe:- circumferential: 10 turns - 6mmΦ for inner cage & 8 turns - 6mmΦ for outer cage and longitudinal: 6 nos. - 6mmΦ for inner cage & 6 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	5,256.89	5,230.23	5,122.04	5,119.39
4.17.01.01.05	700mm internal dia, wall thickness not less than 85mm, Re-bar for pipe:- circumferential: 13 turns - 6mmΦ for inner cage & 10 turns - 6mmΦ for outer cage and longitudinal: 6 nos. - 6mmΦ for inner cage & 6 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	6,261.05	6,232.23	6,113.83	6,110.75
4.17.01.01.06	800mm internal dia, wall thickness not less than 95mm, Re-bar for pipe:- circumferential: 15 turns - 6mmΦ for inner cage & 11 turns - 6mmΦ for outer cage and longitudinal: 7 nos. - 6mmΦ for inner cage & 7 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	7,823.82	7,788.78	7,643.97	7,640.06
4.17.01.01.07	900mm internal dia, wall thickness not less than 100mm, Re-bar for pipe:- circumferential: 18 turns - 6mmΦ for inner cage & 14 turns - 6mmΦ for outer cage and longitudinal: 7 nos. - 6mmΦ for inner cage & 7 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 12 nos. - 6mmΦ	m	9,533.33	9,492.52	9,323.37	9,318.75
4.17.01.02	For Heavy Traffic: Cross drains/ culverts/ outlet and any other works carrying heavy traffic having suggested mix 1:1.25:2.5 with cement conforming to BDS EN 197-1 : 2003 CEM I 52.5N/ ASTM C150 Type I, 20mm down well graded stone chips broken from boulder (LAA not exceeding 30), sand of minimum FM 2.5 and water reducing admixture conforming to ASTM C 494 Type -A or F @ 1.75 liter per cubic meter of concrete to attain a minimum 28 days cylinder strength of 30 MPa.					
4.17.01.02.01	300mm internal dia, wall thickness not less than 50mm, Re-bar for pipe:- circumferential: 14 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	2,448.54	2,439.29	2,360.51	2,372.24
4.17.01.02.02	400mm internal dia, wall thickness not less than 75mm, Re-bar for pipe:- circumferential: 14 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	4,055.29	4,041.06	3,898.03	3,921.97
4.17.01.02.03	500mm internal dia, wall thickness not less than 75mm, Re-bar for pipe:- circumferential: 19 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	4,904.33	4,890.70	4,730.62	4,759.93
4.17.01.02.04	600mm internal dia, wall thickness not less than 85mm, Re-bar for pipe:- circumferential: 19 turns - 6mmΦ for inner cage & 14 turns - 6mmΦ for outer cage and longitudinal: 6 nos. - 6mmΦ for inner cage & 6 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	6,980.81	6,968.27	6,777.63	6,816.54
4.17.01.02.05	700mm internal dia, wall thickness not less than 85mm, Re-bar for pipe:- circumferential: 19 turns - 6mmΦ for inner cage & 14 turns - 6mmΦ for outer cage and longitudinal: 8 nos. - 6mmΦ for inner cage & 8 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	8,020.17	8,007.72	7,793.75	7,838.84
4.17.01.02.06	800mm internal dia, wall thickness not less than 95mm, Re-bar for pipe:- circumferential: 22 turns - 6mmΦ for inner cage & 17 turns - 6mmΦ for outer cage and longitudinal: 8 nos. - 6mmΦ for inner cage & 8 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 8 nos. - 6mmΦ	m	10,126.20	10,111.98	9,845.63	9,902.98

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.17.01.02.07	900mm internal dia, wall thickness not less than 100mm, Re-bar for pipe:- circumferential: 14 turns - 8mmΦ for inner cage & 11 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 6mmΦ for inner cage & 8 nos. - 6mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 6mmΦ and longitudinal: 12 nos. - 6mmΦ	m	12,128.73	12,112.51	11,799.81	11,867.54
4.17.01.02.08	1000mm internal dia, wall thickness not less than 115mm, Re-bar for pipe:- circumferential: 17 turns - 8mmΦ for inner cage & 13 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 8mmΦ for inner cage & 8 nos. - 8mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ and longitudinal: 12 nos. - 6mmΦ	m	15,698.57	15,684.44	15,312.68	15,398.97
4.17.01.02.09	1100mm internal dia, wall thickness not less than 115mm, Re-bar for pipe:- circumferential: 19 turns - 8mmΦ for inner cage & 14 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 8mmΦ for inner cage & 8 nos. - 8mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ and longitudinal: 12 nos. - 6mmΦ	m	17,573.20	17,560.04	17,159.00	17,253.82
4.17.01.02.10	1200mm internal dia, wall thickness not less than 120mm, Re-bar for pipe:- circumferential: 21 turns - 8mmΦ for inner cage & 16 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 8mmΦ for inner cage & 8 nos. - 8mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ and longitudinal: 12 nos. - 8mmΦ	m	20,303.58	20,291.99	19,844.40	19,953.16
4.17.01.02.11	1400mm internal dia, wall thickness not less than 135mm, Re-bar for pipe:- circumferential: 17 turns - 10mmΦ for inner cage & 13 turns - 10mmΦ for outer cage and longitudinal: 12 nos. - 8mmΦ for inner cage & 12 nos. - 8mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ for inner cage & 3 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 8mmΦ for inner cage & 8 nos. - 8mmΦ for outer cage	m	28,117.05	28,109.11	27,558.38	27,699.55
4.17.01.02.12	1600mm internal dia, wall thickness not less than 140mm, Re-bar for pipe:- circumferential: 21 turns - 10mmΦ for inner cage & 16 turns - 10mmΦ for outer cage and longitudinal: 12 nos. - 8mmΦ for inner cage & 12 nos. - 8mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ for inner cage & 3 turns - 8mmΦ for outer cage and longitudinal: 8 nos. - 8mmΦ for inner cage & 8 nos. - 8mmΦ for outer cage	m	35,052.15	35,047.19	34,412.81	34,580.28
4.17.01.02.13	1800mm internal dia, wall thickness not less than 150mm, Re-bar for pipe:- circumferential: 22 turns - 10mmΦ for inner cage & 22 turns - 10mmΦ for outer cage and longitudinal: 14 nos. - 10mmΦ for inner cage & 14 nos. - 10mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ for inner cage & 3 turns - 8mmΦ for outer cage and longitudinal: 12 nos. - 8mmΦ for inner cage & 12 nos. - 8mmΦ for outer cage	m	44,640.85	44,639.78	43,895.81	44,097.72
4.17.01.02.14	2000mm internal dia, wall thickness not less than 170mm, Re-bar for pipe:- circumferential: 22 turns - 10mmΦ for inner cage & 22 turns - 10mmΦ for outer cage and longitudinal: 14 nos. - 10mmΦ for inner cage & 14 nos. - 10mmΦ for outer cage , Re-bar for Collar:- circumferential: 3 turns - 8mmΦ for inner cage & 3 turns - 8mmΦ for outer cage and longitudinal: 12 nos. - 8mmΦ for inner cage & 12 nos. - 8mmΦ for outer cage	m	51,752.77	51,757.52	50,849.04	51,102.65
Section-18: Destructive and Non-destructive Tests (NDT) on Concrete						
4.18.01	RHT (Rebound/ Schmidt Hammer Test): Conducting rebound hammer test to assess quality of the concrete on built structure in accordance with ASTM C 805 (Standard Test Method for Rebound Number of Hardened Concrete) including preparing the surface of RCC structural members such as beams, columns, slabs etc. by chipping the plastered surface/ finishing/ cladding to expose the concrete, smoothening the area using carborndum stone all as directed by E-I-C, preparation of separate report for each structure with observations and recommendations for remedial measures if any. Before commencing RHT, Contractor shall submit methodology with resumes of the consulting personnel for conducting test to the E-I-C for approval.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.18.01.01	Mobilization & demobilization within 100km of Dhaka/ nearby source to site and RHT on 10 (ten) nos. spots or less of a single structure	set	16,419.67	16,406.43	16,287.25	16,287.25
4.18.01.02	Additional charge on Mobilization & demobilization beyond 100km of dhaka/ nearby source to site	km	34.68	34.68	34.68	34.68
4.18.01.03	RHT on each additional spot after 10(ten) spots tested.	each	1,641.97	1,640.64	1,628.73	1,628.73
4.18.02	UPV (Ultrasonic Pulse Velocity) Test: Conducting Ultrasonic Pulse Velocity test to assess uniformity, homogeneity and quality of the concrete, in terms of cracks, voids, flaws, honeycombing etc. and other inperfections in accordance with ASTM C 597 (Standard Test Method for Pulse Velocity Through Concrete) including preparing the surface of RCC structural members such as beams, columns, slabs etc. by chipping the plastered surface/ finishing/ cladding to expose the concrete, smoothening the area using carborndum stone all as directed by E-I-C, preparation of separate report for each structure with observations and recommendations for remedial measures if any. Before commencing UPV, Contractor shall submit methodology with resumes of the consulting personnel for conducting test to the E-I-C for approval.					
4.18.02.01	Mobilization & demobilization within 100km of Dhaka/ nearby source to site and UPV on 10 (ten) nos. spots or less of a single structure	set	23,702.58	23,689.34	23,570.17	23,570.17
4.18.02.02	Additional charge on Mobilization & demobilization beyond 100km of dhaka/ nearby source to site	km	34.68	34.68	34.68	34.68
4.18.02.03	UPV on each additional spot after 10(ten) spots tested.	each	2,370.26	2,368.93	2,357.02	2,357.02
4.18.03	Core Cutter: Obtaining, preparing and testing in-situ cylindrical core specimens of specified diameter drilled from hardened concrete including core location determination by rebar locator/ scanning and preparing the structural members as directed to expose the concrete, cleaning the area with blower/ wire brush and taking out the comcrete sample with cutter and testing as per standard specification. The procedure for drilling, examination, measurement and testing for comprehensive strength shall be in accordance with ASTM C 42 (Standard Test Method for obtaining and testing drilled cores and sawed beams of concrete). Before commencing Core cutting, contractor shall submit methodology with resumes of the consulting personnel for conducting test to the E-I-C for approval. The cost of cutting the core with necessary laboratory test fees is included in this unit rate.					
4.18.03.01	Mobilization & demobilization within 100km of Dhaka/ nearby source to site and in-situ core cutting on 3 (three) nos. spots or less of a single structure	set	25,159.17	25,145.93	25,026.75	25,026.75
4.18.03.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	km	48.55	48.55	48.55	48.55
4.18.03.03	In-situ core cutting on each additional nos. after 3(three) spots	each	6,581.11	6,577.80	6,548.00	6,548.00
Section-19: Ground Reinforcement, Improvement and Treatment Techniques						
4.19.01	Sand Compaction Pile: Execution of sand compaction pile through displacement method by using tripod rig, mechanical winch, special type drop hammer (weighing minimum 1.00 ton) and casing pipe of inner diameter 200mm to 300mm upto a maximum depth of 10.0m, compacting the sand with desired sand volume and FM value of sand upto desired relative density (60% to 65%), to attain the desired SPT value between sand piles etc. complete including the cost of compacted sand as per design, specification and direction of Engineer in charge. [Note: Sand must be free from clay lump and blending of sand to attain the specific FM is not acceptable]					
4.19.01.01	Pile diameter: 200mm					
4.19.01.01.01	Sand Volumn 0.075 cum/m, minimum FM = 1.5	m	257.16	251.54	251.01	249.59

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1	2	3	4	5	6	7
4.19.01.01.02	Sand Volumn 0.075 cum/m, minimum FM = 1.8	m	279.95	280.86	275.60	275.60
4.19.01.01.03	Sand Volumn 0.075 cum/m, minimum FM = 2.5	m	332.83	325.88	325.35	323.37
4.19.01.01.04	Sand Volumn 0.1 cum/m, minimum FM = 1.5	m	319.74	312.37	312.11	310.21
4.19.01.01.05	Sand Volumn 0.1 cum/m, minimum FM = 1.8	m	350.13	351.47	344.89	344.89
4.19.01.01.06	Sand Volumn 0.1 cum/m, minimum FM = 2.5	m	420.62	411.50	411.23	408.58
4.19.01.01.07	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	473.28	462.27	461.99	459.15
4.19.01.01.08	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	518.87	520.91	511.17	511.17
4.19.01.01.09	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	624.61	610.96	610.67	606.70
4.19.01.02	Pile diameter: 250mm					
4.19.01.02.01	Sand Volumn 0.1 cum/m, minimum FM = 1.5	m	328.16	320.74	320.32	318.43
4.19.01.02.02	Sand Volumn 0.1 cum/m, minimum FM = 1.8	m	358.55	359.84	353.11	353.11
4.19.01.02.03	Sand Volumn 0.1 cum/m, minimum FM = 2.5	m	429.04	419.87	419.44	416.79
4.19.01.02.04	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	492.44	481.32	480.69	477.85
4.19.01.02.05	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	538.03	539.97	529.87	529.87
4.19.01.02.06	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	643.77	630.01	629.37	625.40
4.19.01.02.07	Sand Volumn 0.20 cum/m, minimum FM = 1.5	m	639.36	624.64	624.11	620.33
4.19.01.02.08	Sand Volumn 0.20 cum/m, minimum FM = 1.8	m	700.14	702.83	689.69	689.69
4.19.01.02.09	Sand Volumn 0.20 cum/m, minimum FM = 2.5	m	841.14	822.88	822.36	817.06
4.19.01.02.10	Sand Volumn 0.25 cum/m, minimum FM = 1.5	m	788.93	770.59	770.12	765.39
4.19.01.02.11	Sand Volumn 0.25 cum/m, minimum FM = 1.8	m	864.91	868.32	852.09	852.09
4.19.01.02.12	Sand Volumn 0.25 cum/m, minimum FM = 2.5	m	1,041.15	1,018.39	1,017.93	1,011.31
4.19.01.03	Pile diameter: 300mm					
4.19.01.03.01	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	506.57	495.37	494.46	491.63
4.19.01.03.02	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	552.16	554.01	543.65	543.65
4.19.01.03.03	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	657.90	644.06	643.15	639.18
4.19.01.03.04	Sand Volumn 0.20 cum/m, minimum FM = 1.5	m	675.45	660.52	659.31	655.52
4.19.01.03.05	Sand Volumn 0.20 cum/m, minimum FM = 1.8	m	736.23	738.71	724.88	724.88
4.19.01.03.06	Sand Volumn 0.20 cum/m, minimum FM = 2.5	m	877.23	858.76	857.55	852.26
4.19.01.03.07	Sand Volumn 0.25 cum/m, minimum FM = 1.5	m	844.33	825.66	824.15	819.42
4.19.01.03.08	Sand Volumn 0.25 cum/m, minimum FM = 1.8	m	920.31	923.40	906.12	906.12
4.19.01.03.09	Sand Volumn 0.25 cum/m, minimum FM = 2.5	m	1,096.55	1,073.47	1,071.96	1,065.34
4.19.01.03.10	Sand Volumn 0.30 cum/m, minimum FM = 1.5	m	1,013.20	990.81	988.99	983.32
4.19.01.03.11	Sand Volumn 0.30 cum/m, minimum FM = 1.8	m	1,104.38	1,108.09	1,087.36	1,087.36
4.19.01.03.12	Sand Volumn 0.30 cum/m, minimum FM = 2.5	m	1,315.87	1,288.18	1,286.36	1,278.42
4.19.01.03.13	Sand Volumn 0.35 cum/m, minimum FM = 1.5	m	1,182.02	1,155.89	1,153.77	1,147.15
4.19.01.03.14	Sand Volumn 0.35 cum/m, minimum FM = 1.8	m	1,288.39	1,292.72	1,268.53	1,268.53
4.19.01.03.15	Sand Volumn 0.35 cum/m, minimum FM = 2.5	m	1,535.13	1,502.82	1,500.70	1,491.43

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1	2	3	4	5	6	7
4.19.02	Stone Column: Providing and installing cast-in-situ compaction stone column of speicified diameter and length to increase bearing capacity and reduce the settlement of construction by driving of suitable MS casing pipe (removable) having a detachable M.S.shoe (flat/conical) at the bottom and filling inside the casing pipe in layers of 1m using 1(sand; minimum FM 2.5) : 2(Shingles; Shingles shall be 50mm down graded) and each layer be well compacted by dynamic compaction method (before compaction lift the casing for 800mm from bottom and then the backfill shall be throughly compacted. This procedure shall be repeated for every layer till the ground level is reached) for ground improvement including all materials, labour etc complete as per specification, drawings and as directed by the E-I-C.					
4.19.02.01	For 300mm diameter:					
4.19.02.01.01	Fill Volumn 0.2 cum/m	m	1,625.19	1,619.49	1,583.95	1,594.62
4.19.02.01.02	Fill Volumn 0.3 cum/m	m	2,281.30	2,273.68	2,223.30	2,239.33
4.19.02.02	For 500mm diameter:					
4.19.02.02.01	Fill Volumn 0.6 cum/m	m	3,935.72	3,924.12	3,835.21	3,867.26
4.19.02.02.02	Fill Volumn 0.8 cum/m	m	5,142.94	5,128.08	5,011.52	5,054.24
4.19.03	Prefabricated Vertical Drain (PVD)/ Wick Drain: Supply & Installation of prefabricated virtical drains/ wick drains to reduce the preload time & to accelerate settlement of embankments for bridge approach or roadways including unrolling the wick drain roll, changing & splicing wick drain roll, pushing hollow mandrel carrying into the ground carring the wick drain inside to protect it from tear, cuts and abrasion, providing anchor plate/ rod at the bottom of the mandrel to prevent soil from entering the mandrel during installation, maintain the mandrel in a vertical position, providing a minimum of 30 ton of static push force when setting on firm ground, installing by specialized wick drain installation equipment mounted on hydraulic excavator or crane, withdrawn the mandrel after the installtion of the drain, cost of furnishing all tools, materials, labour, equipment and all other costs necessary to complete the work as per design, specification & direction of the E-I-C. Hydraulic jetting shall not be permitted for installtion of the drains. The locations and depth of wick drain, sequene of installation will be as directed by the Engineer and specifications in conjuction with all drawings and logs. All drains will go to maximum allowable/ anchorable depth or until refusal as directed in the specification and logs. Note: Prior to installation of PVD the Contractor shall demonstrate that the equipment, method, and materials produce a satisfactory installation in accordance with the specifications. For this purpose, the Contractor will be required to install 2 trial drains at locations designated by the Engineer. Trial drains will be paid at the contract unit price unless the drain is improperly installed. 5% wastage is considered in this unit rate.					
4.19.03.01	SPVD: Prefabricated Vertical Synthetic Drains shall consist of a continuous plastic drainage core wrapped in a non-woven polypropylene/polyester geotexile material having discharge capacity at 240 kPa and Hydraulic Gradient of 1 should be greater than 500 m3/yr and shall meet the following specifications. Composite Drain Properties: Weight (g/m) > 75± 10%, Width(mm) ≥ 100 ± 2, Thickness (mm) > 3.0, Tensile Strength (kN) > 2.2, Elongation at 2.0 kN (%) > 25, Strength at 10% Elongation (kN) > 1.3 Filter Fabric Properties: CBR Puncture Resistance (N) > 150, Trapezoidal Tear Strength (N) > 200, Grab Tensile Strength (N) > 550, Apparent opening size(AOS, O95) (micron) ≤ 90, Permeability/ Permittivity (cm/s) > 200 x 100	m	420.90	420.48	418.70	418.70

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1	2	3	4	5	6	7
4.19.03.02	PVJD: Prefabricated Vertical Jute Drains (PVJD) shall consist of an outer sheath (jacket) made of woven jute geotextile (JGT) with 4-coir wicks separated by stitched compartments having discharge capacity at 7 days (200 kPa at hydraulic gradient of 1.0) shall be greater than 500 m3/yr and shall meet the following specifications. Composite Drain Properties: Width (mm) ≥ 90 ± 10%, Thickness (mm) > 5, Grab Tensile Strength (N), MD X CD > 350 X 350, Trapezoidal Tear Strength (N), MD X CD > 100 X 100, Puncture Resistance (N) > 100, Burst Strength (N) > 900, Apparent Opening size (AOS, O95) (micron) ≤ 90. Filter Fabric Properties: Equivalent Diameter (mm) > 50.	m	279.08	278.66	276.89	276.89
4.19.04	Khoa Consolidation: 50mm down graded picked jhama Khoa Consolidation in foundation trenches by mixing in mixture machine with local sand of min. FM 1.2 incluing/ excluding cement to achieve minimum dry density of 90% with optimum mositure content (Modified Proctor Test) including breaking and screening chips, laying and spreading in 150mm layers uniformly and compacting etc. all complete and accepted by the E-I-C.					
4.19.04.01	Khoa: Sand = 2: 1	cum	6,789.38	6,755.64	6,446.23	6,446.23
4.19.04.02	Cement: Sand: Khoa: = 1:6:12	cum	7,870.66	7,837.17	7,539.27	7,539.27
4.19.05	MSE: Construction of Mechanically Stabilized/Reinforced Earth retaining walls, viaduct access ramps, road widening and bridge abutments with pre-cast Facia panels, reinforcing element, foundation beam, caping beam including excavation for foundation, concreting the foundation with appropriate groove seating for facing elements, placement of facing elements, assembling, joining with facing elements, laying of the reinforcing elements, earth filling with granular material etc. as per design, drawing, specification and direction of Engineer-in-charge. Contractor shall submit the methodology of reinforced earth work to the Engineer-in-Charge for approval before commencing the work. Notes: i) Drainage arrangement including filter media shall be made as per approved design & drawings and calculated separately. ii) The rates for excavation and foundation concrete shall be taken from section 5 & 9 of Bridge Works. iii) The earth fill to be retained is not included in this analysis which is to be worked out and provide separately. iv) Capping beam is to be priced separately as per approved design. The rate for cement concrete shall be taken from the section 7 of bridge works.					
4.19.05.01	MSE_FP: Providing, hoisting and placing of pre-cast RCC Facia Panels of minimum 0.80 sqm area and 180mm thickness, made with minimum 35 MPa concrete inclusive of reinforcement, shuttering, casting in yard, curing, storing, transporting, lifting, placing in position, erection with all necessary accessories i.e., rubber pad, universal hook, anchor block, nut, washer, joint fillers, fasteners etc. complete in all respect as per approved drawing, specification and direction of Engineer-in-charge. [Using Batching Plant, Transit Mixer, Concrete Pump and bulk rate of Cement]	sqm	6,079.67	6,097.49	5,814.78	5,885.22
4.19.05.02	Reinforcing Elements: Providing, assembling, joining with facing elements and laying of reinforcing elements (metal strip/geotextile/steel etc.) in the form of grid or strip or strap or combination of metallic or synthetic or any other proprietary material as per approved drawing, specification and direction of Engineer-in-Charge. The packaging of reinforcing elements shall clearly indicate the name of the manufacturer/ supplier and brand name, date of production, expiry, if any and batch identification number along with the manufacturers test certificates.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
4.19.05.02.01	MSE_MSR_GCS: With reinforcing elements of Galvanised carbon steel strips of 60mm wide and 5mm thick with minimum bearing and shear strength of 490 MPa conforming to BS EN 10025, Grade S 355 JR. The fabricated element shall be galvanized and the minimum zinc coating weight shall not be less than 1000gm/sqm.	m	1,368.77	1,368.22	1,366.55	1,366.55
4.19.05.02.02	MSE_MSR_Cu: With reinforcing element of Copper Strips of 60mm wide and 5mm thick conforming to BS 2870 quality C 101 or C 102 in the 1/2H condition and shall have 0.2 percent proof stress of not less than 180 MPa.	m	1,368.77	1,368.22	1,366.55	1,366.55
4.19.05.02.03	MSE_MSR_Al: With reinforcing elements of Aluminium Strips of 60mm wide and 5mm thick conforming to Bs 1470 quality 5454 in H 24 condition.	m	697.36	696.80	695.14	695.14
4.19.05.02.04	MSE_MSR_SS: With reinforcing element of Stainless steel strips of 60mm wide and 5mm thick.	m	697.36	696.80	695.14	695.14
4.19.05.02.05	MSE_MSR_FRP: with reinforcing element of Glass reinforced polymer/ fibre reinforced polymer/ polymeric strips of 60mm wide and 5mm thick.	m	1,368.77	1,368.22	1,366.55	1,366.55
4.19.05.02.06	MSE_GTR: With reinforcing elements of synthetic geogrids.	sqm	328.08	327.52	325.86	325.86
4.19.05.02.07	MSE_HDGSR-R: With reinforcing elements of high yield ribbed/ deformed steel reinforcement complying with BDS ISO 6935-2: 2016 and fully hot-dip Galvanized to BS EN ISO 1461: 1999 with minimum coat thickness of 85 microns or 610 gm per meter squre surface. [Using retail rate of reinforcing bar]	kg	245.54	245.03	243.52	243.52
4.19.05.02.08	MSE_HDGSR-B: With reinforcing elements of high yield ribbed/ deformed steel reinforcement complying with BDS ISO 6935-2: 2016 and fully hot-dip Galvanized to BS EN ISO 1461: 1999 with minimum coat thickness of 85 microns or 610 gm per meter squre surface. [Using Bulk rate of reinforcing bar]	kg	242.76	242.26	240.75	240.75
4.19.05.03	MSE_BF: Backfill with selected granular material in layers in approaches of work over metal strip/synthetic geogrid/steel which is to be retained by mechanically stabilized/ reinforced earth wall including grading, placement and compaction complete as per drawing, Technical specification and as directed by the Engineer-in-charge. The backfill material shall be clean, free draining, granular with high friction and low cohesion having particle size not more than 100mm and angle of internal friction not less than 34 degree, plasticity index shall not exceed 6 as determined by AASHTO T 90, non-corrosive, coarse grained with not 10 per cent of particles passing 75 micron sieve, free of shale or other soft, poor durability particles, any deleterious matter, chlorides, salts, acids, alkalies, mineral oil, fungus and microbes and pH shall be between 5.0 to 10.0 as determined by AASHTO T 289. The backfill material shall be compacted for AASHTO T 236 to 95 percent of the maximum density determined according to AASHTO T 99 method C or D and corrected for oversized material according to AASHTO T 99, Note 9.	cum	3,475.70	3,495.39	3,352.76	3,386.30
4.19.06	Jet Grouting: Execution of Jet grouted pile including mobilization & demobilization of Jet Grouting Machine, cost of furnishing all materials, labour and equipment necessary to complete the work, cost of trial columns, coring, testing and disposal of waste materials. Every completed jet grouted column/s shall be supported with Jet Grout Pile Data. No separate payment shall be made for drilling holes, washing/cleaning of holes, placing grout, labor, equipment, processing, mixing, hooking-up to the hole, injecting grout, hole closures, clearing up, cost of furnishing samples of grouting materials, providing assistance for sampling including verification testing, all of which shall be considered part of the Work of jet grouting.					
4.19.06.01	JGC_600: Diameter of Jet grouted column = 600mm	m	3,620.30	3,616.97	3,604.63	3,604.63
4.19.06.02	JGC_800: Diameter of Jet grouted column = 800 mm	m	6,462.24	6,456.33	6,434.28	6,434.28

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1	2	3	4	5	6	7
4.19.06.03	JGC_1000: Diameter of Jet grouted column = 1000 mm	m	10,082.54	10,073.30	10,038.91	10,038.91
4.19.06.04	JGC_1200: Diameter of Jet grouted column = 1200 mm	m	14,511.11	14,497.79	14,448.27	14,448.27
4.19.07	Soil Nailing: Supply and installation of soil nail of specified diameter, spacing and length as shown in drawings including setting-up, drilling in soil or rock, galvanized re-bar, centralizers, grout injection (30 MPa Concrete) as specified in specification. Works also include supply and fix nail head and all necessary works for proper completion including UPVC pipe as casing required for soil nailing work. The constractor shall submit the Methodology for the installtion of Soil Nail to the Engineer-in-charge for prior written approval (at least 7 days) before the commencement of works. The constractor shall keep records for each soil nail installation and submit one signed copy to the Engineer not later than next working day after the soil nails have been installed. The record for each soil nail shall include soil nail reference number, date/time of commencement and completion of drilling and grouting, names of supervisor and operators, the necessary drilling and grouting details etc. Only dry type drilling equipment shall be used to minimize slope disturbance.					
4.19.07.01	Diameter of Drill Hole: 100 mm, Diameter of Re-bar = 25mm (Grade 500, conforming to BDS ISO 6935-2:2016)	m	1,613.59	1,611.13	1,602.84	1,602.84
4.19.08	Conducting pull out test for soil nail to 1.5 × Working Load or as specified by E-I-C providing all necessary resources including all torque wrenhches, jacks, gauges, reaction frame, pump, load cell, bearing plates, and other equipment required to carry out the pull-out test of the soil nails as specified in Engineer's specification. The complete jacking system including hydraulic jack, pump and pressure gauge should be calibrated as single unit before use to an accuracy of not less than 5% of the applied load.	LS				
4.19.09	Anchor Bar: Fixing anchor bars upto 28mm. dia to the founding level at rock strata as per approved design including cost, conveyance & all taxes of all materials and T&P required for the work but excluding cost of TS rod & labour charges for bending, binding, tying the grills & placing in position as per specification & direction of Engineer-in-Charge.					
4.19.09.01	With G.I/MS pipe	nos	916.44	915.03	909.09	909.09
4.19.10	Rock Drilling: Drilling hole of specified length and diameter (more than 150mm diameter) below foundation bed at weathered rock/rock strata in flat/slopping ground by special drilling equipment with diamond drill bit including mobilization & demobilization of drilling equipment, setting-up, drilling in rock as per drawing, specification & direction of Engineer-in-Charge. The constractor shall submit the Methodology for the drilling holes in rock to the Engineer-in-charge for prior written approval (at least 7 days) before the commencement of works.					
4.19.10.01	RD_250: Diameter of Drill Hole: 250 mm	m	20,602.54	20,581.73	20,498.50	20,498.50
4.19.10.02	RD_300: Diameter of Drill Hole: 300 mm	m	23,563.63	23,539.84	23,444.68	23,444.68

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1	2	3	4	5	6	7
Chapter - 5 : Building Works						
Section 01: General, Site Facilities & Safety						
5.01.01	Erection and maintenance of semi permanent site office and removal of the same after completion of work in accordance with the conditions of contract. In addition to the office required for own use, the contractor shall provide and maintain furnished site office for the use of Engineer-in-charge and his staff. The site office must have tiles floor, adequate foundation, brick walls, false ceiling of gypsum board and all windows are to be glazed, shuttered and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer-in-charge. The site office shall be maintained in a secure condition by the contractor until the completion of the contract and shall be provided with electricity, water supply, wash rooms and sewerage facilities. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the contractor shall submit plans and drawings showing proposed details and location for the site office, including foundations, access roads, shades, layout of electrical and water supply and hard standings there for the approval of Engineer-in-charge. The Engineer-in-charge may require revision of the plans prior to giving approval for construction. The contractor shall also submit detailed proposed furniture, fittings and other items of equipment and plant to the Engineer-in-charge for approval. These items shall be of the standard quality suitable for site. The office, complete with furnishings, fittings, access roads and hard standings shall be ready for occupation by the Engineer-in-charge within 28 days of the date when the contractor first occupies the site. The contractor shall provide day and night guards and an attendant for the field office. At the end of the contract all materials, equipment and plant, furniture, fittings recovered from dismantling the office and removing access road will be the property of the contractor. No interim payment shall be certified unless engineer's office with required facilities are constructed and accepted by the Engineer-in-charge. (This is a time related item; proportionate payment for this item shall be made distributing in each bill on the basis of percentage progress of the whole works under contract) [PWD 01.1]					
5.01.01.1	Providing necessary facilities in construction site for maintaining site safety of 30 nos construction worker including safety helmet, safety belt , apron, gumboot, goggles etc. [PWD 01.1.4.1]	set	39,724.64	39,724.64	39,724.64	39,724.64
5.01.01.2	Providing necessary facilities in construction site for maintaining site safety of 10 nos construction inspection team member including safety helmet, safety goggles, safety shoe etc. [PWD 01.1.4.2]	set	11,097.94	11,097.94	11,097.94	11,097.94
5.01.02	Providing layout and carry over PWD bench-mark (BM) at site from nearby BM pillar, property lines, existing ground level (EGL), formation ground level (FGL), highest flood levels (HFL), plinth levels (PL), mean sea level (MSL), setting and marking all pillars, marker, pegs etc. showing and maintaining reduced levels (RL's) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white. [PWD 01.6]	sqm	33.92	32.89	30.83	30.83

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1	2	3	4	5	6	7
5.01.03	Supplying, fitting, fixing, operating and maintenance of the construction supervision lift (1000Kg capacity) for supervision of building construction work during the entire construction period including all necessary components like, steel frame, car, guide rails. push button, driving motor, gear box, car door, travelling cable, RCC base for steel frame, necessary connections with the building, electric supply & electricity bill and dismantling the same after completion of the building construction etc. all complete complying all safety factors and accepted by the Engineer-in-charge. (The construction supervision lift shall be the contractor property after completion of work). Number of month shall be calculated as 1/2 (half) of the initial contract period or contract completion time whichever is less for new construction and full contract period for vertical extension work. The contractor must submit detail structural drawing of supporting frame with foundation and lift specification prior to supply on site. [PWD 01.11]					
5.01.03.01	6th to 9th floor, hoisting speed 40 m/min [PWD 01.11.1]	per month	18,222.50	18,222.50	18,222.50	18,222.50
5.01.03.02	10th to 14th floor, hoisting speed 40 m/min [PWD 01.11.2]	per month	22,066.39	22,066.39	22,066.39	22,066.39
5.01.03.03	15th to 19th floor, hoisting speed 50 m/min [PWD 01.11.3]	per month	25,851.69	25,851.69	25,851.69	25,851.69
5.01.03.04	20th to 24th floor, hoisting speed 60 m/min [PWD 01.11.4]	per month	29,960.75	29,960.75	29,960.75	29,960.75
5.01.03.05	25th to 29th floor, hoisting speed 60 m/min [PWD 01.11.5]	per month	33,319.53	33,319.53	33,319.53	33,319.53
Section 02: Excavation, Filling & Site Development And Palisading						
5.02.01	Earth work in excavation in all kinds of soil for foundation trenches including layout, providing center lines, local bench-mark pillars, levelling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer-in-charge, subject to submit method statement of carrying out excavation work to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract. [PWD 02.1]					
5.02.01.1	Layout and marking for earthwork in excavation in foundation accepted by the Engineer-in-charge. [Plinth area of the structure shall be considered for measurement] [PWD 02.1.1]	sqm	19.53	19.53	18.50	18.50
5.02.01.2	Earthwork in excavation in foundation trenches up to 1.5 m depth and maximum 10 m lead [PWD 02.1.2]	cum	172.67	169.58	157.25	157.25
5.02.01.3	Added rate for each additional 0.5 meter depth exceeding 1.5 meter. [PWD 02.1.3]	cum	30.83	29.81	27.75	27.75
5.02.01.4	Added rate for each 1 m additional lead beyond 10 m. [PWD 02.1.4]	cum	4.11	4.11	4.11	4.11
5.02.02	Bailing out of trapped water caused by inundation or rain, by pump from foundation trenches. [PWD 02.2]	hour	487.17	487.17	470.72	470.72
5.02.03	Supplying of straight and strong borrak bamboo posts of having minimum 75 mm diameter althrough and driving the same vertically in the ground up to required depth by any means shaping the top of the post, all complete and accepted by the Engineer-in-charge. [PWD 02.3]	m	92.50	92.50	83.25	83.25
5.02.04	Supplying of wooden ballah having an average diameter not less than 150 mm (without barks) at one third distance from larger end with a minimum end diameter of 100 mm for retaining purpose and driving to a depth as per design and drawing by any method including all arrangement for staging, hoisting, carrying etc. complete and accepted by the Engineer-in-charge. [PWD 02.4]	m	620.78	614.61	586.86	586.86

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1	2	3	4	5	6	7
5.02.05	Palisading work by supplying of bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of bamboo post). [PWD 02.5]	sqm	630.03	624.89	599.19	599.19
5.02.06	Supplying and fitting-fixing horizontal bracing in palisading with half split wooden ballah having an average diameter not less than 150 mm with a minimum end diameter of 100 mm @ 450 mm including supply of iron nails, gazals etc. complete approved and accepted by the Engineer-in-charge. [PWD 02.6]	m	233.31	232.28	224.06	224.06
5.02.07.1	Shore protection work during excavation in foundation trenches up to 1.5 m depth to protect loss due to damage of property by palisading accepted by the Engineer-in-charge. [The rate is including the cost of vertical post] [PWD 02.7.1]	sqm	731.78	725.61	691.69	691.69
5.02.07.2	Shore protection work during excavation in foundation trenches beyond 1.5 m depth to protect loss due to damage of property by palisading accepted by the Engineer-in-charge, [The rate is including the cost of vertical post] [PWD 02.7.2]	sqm	1,076.08	1,078.14	1,023.67	1,023.67
5.02.08.1	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.5 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge. [PWD 02.10.1]	cum	1,118.22	1,123.36	1,098.69	1,098.69
5.02.08.2	Sand filling in foundation trenches and plinth with sand having minimum F.M. 0.8 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge. [PWD 02.10.2]	cum	1,199.42	1,201.47	1,144.94	1,144.94
5.02.08.3	Sand filling in foundation trenches and plinth with sand having min. F.M. 1.2 in 150 mm in layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge. [PWD 02.10.3]	cum	1,332.00	1,337.14	1,280.61	1,280.61
5.02.08.4	Sand filling in foundation trenches and plinth with sand having min. F.M. 2.2 in 150 mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only, all complete and accepted by the Engineer-in-charge. [PWD 02.10.4]	cum	3,347.47	3,239.56	3,229.28	3,264.22
5.02.09	50 mm down graded picked jhama khoa consolidation in foundation trenches by mixing the same with best quality local sand (F.M. 1.2) in (2:1) (khoa: sand) proportion to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including breaking and screening chips, laying and spreading in 150 mm layers uniformly and compacting etc. all complete and accepted by the Engineer-in-charge. [PWD 02.11]	cum	6,223.19	6,206.75	5,947.75	5,947.75
5.02.10	50 mm down graded picked jhama khoa consolidation in foundation trenches by mixing in mixer machine with best quality local sand (F.M. 1.2) and cement in (1:6:12) (cement: sand: khoa) proportion to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including breaking and screening chips, laying and spreading in150 mm layers uniformly and compacting etc. all complete and accepted by Engineer-in-charge. [PWD 02.12]	cum	7,210.89	7,199.58	6,959.08	6,959.08

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1	2	3	4	5	6	7
5.02.11	Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achive minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering, leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge. [PWD 02.13]	cum	212.75	207.61	194.25	194.25
5.02.12	Cleaning and disposing of excavated earth from the construction site by truck or by any other means to a place within 30 km radius of the city or town area including loading & unloading at both ends, leveling and dressing the carried earth etc. complete and accepted by the Engineer-in-charge. [PWD 02.14]	cum	777.00	771.86	705.06	705.06
5.02.13	Earth filling in foundation trenches and plinth in 150 mm layers with carted earth carried by truck or by any other means including loading and unloading at both ends, leveling, watering and compacting to achive minimum dry density of 95% with optimum moisture content (modified proctor test) including local carriage each layer up to finished level including cost of water and test (carried from beyond 300 m) etc. all complete and accepted by the Engineer-in-charge [PWD 02.15]	cum	728.69	725.61	656.75	656.75
5.02.14	Site development/Improvement by carted earth or dredged sand, sandy silt (free from any organic, foreign, environmental hazardous substances) carried by head or truck or any other means including cost of cutting or by dredging of sand, sandy silt, all; including local carrying, placing the earth/sand, sandy silt in the designated area, maintaining slopes, breaking lumps, levelling and dressing in layers up to finished level etc. all complete as per direction and accepted by the engineer in charge.					
5.02.14.1	By other method/means than dredgeing. [PWD 02.16.1]	cum	781.11	775.97	704.03	704.03
5.02.14.2	By dredging including necessary systems thereof. [PWD 02.16.2]	cum	524.17	523.14	471.75	471.75
5.02.15	Mechanical compaction of earth beyond plinth area, required for pre-approved specific engineering purpose in 150 mm layers including levelling, watering and consolidation each layer with chain dozer, grader, roller etc. to achieve minimum dry density of 95% with optimum moisture content (modified proctor test) up to finished level all complete and accepted by the engineer-in-charge subjected to submission of the method statement. [PWD 02.17]	cum	228.17	225.08	213.78	213.78
Section 03: Brick Soling, CC, DPC etc.						
5.03.01	One layer brick flat soling in foundation or in floor with first class/picked jhama bricks (BDS 208) including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge [PWD 03.1.1]	sqm	653.67	651.61	623.86	623.86
5.03.02	Lean / blinding concrete (1:3:6) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by the Engineer-in-charge.(Cement: CEM-II/B-M) [PWD 03.4]					
5.03.02.1	Lean / blinding concrete in foundation (1:3:6) with cement, brick chips and sand of F.M. 1.2 [PWD 03.4.1]	cum	9,622.06	9,606.64	9,335.31	9,335.31
5.03.02.2	Lean / blinding concrete in floor (1:3:6) with cement, brick chips and sand of F.M. 1.2 [PWD 03.4.2]	cum	9,516.19	9,500.78	9,220.19	9,220.19
5.03.03	Mass concrete (1:2:4) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 03.5]					

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1	2	3	4	5	6	7
5.03.03.1	Mass concrete in foundation (1:2:4) with brick chips and local sand of F.M. 1.2. [PWD 03.5.1]	cum	10,795.78	10,780.36	10,508.00	10,508.00
5.03.03.2	Mass concrete in floor (1:2:4) with brick chips and local sand of F.M. 1.2. [PWD 03.5.2]	cum	10,748.50	10,734.11	10,457.64	10,457.64
5.03.04	Damp proof course (DPC) (1:1.5:3) of cement concrete with cement, sand and picked jhama brick chips or stone chips including breaking of chips, screening, centering, shuttering, casting, curing and finishing with a coat of bitumen including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 03.6]					
5.03.04.1	75 mm thick damp proof course (1:1.5:3) with cement, Sylhet sand (F.M. 2.2) and stone chips. [PWD 03.6.1]	sqm	1,641.36	1,638.28	1,563.25	1,577.64
5.03.04.2	150 mm thick damp proof course (1:1.5:3) with cement, Sylhet sand (F.M. 2.2), stone chips and water-proofing admixture/agent approved by Engineer-in-charge. [PWD 03.6.2]	cum	16,993.28	16,991.22	16,284.11	16,473.22
5.03.05	Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by Engineer-in-charge. [PWD 03.7]	sqm	48.31	48.31	47.28	47.28
Section 04: Brick Works, Fancy Screen Block Works						
5.04.01	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:6) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.1)	cum	9,393.89	9,365.11	8,986.89	8,986.89
5.04.02	Brick works of width one brick or one and a half brick length of first class bricks with cement sand (F.M. 1.2) mortar (1:6) in superstructure including raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.2)	cum	10,056.81	10,017.75	9,599.44	9,599.44
5.04.03	Brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) in exterior walls including filling the interstices with mortar, raking out joints, cleaning and socking the bricks at least for 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days etc. all complete including cost of water, electricity and other charges (measurement to given as 250 mm width for one brick length and 375 mm for one brick and a half brick length) accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.3)	cum	10,377.47	10,339.44	9,925.25	9,925.25
5.04.04	Exposed brick works (for exterior wall without outside plaster) with special quality sorted out first class bricks, very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.4)	cum	11,323.03	11,283.97	10,826.61	10,826.61

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1	2	3	4	5	6	7
5.04.05	Exposed brick works (for exterior wall without outside plaster) with automatic machine made first class bricks, very carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand, curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.5)	cum	12,156.56	12,116.47	11,928.39	11,928.39
5.04.06	Brick works with 10 holes machine made bricks of approved size (241 mm x 114 mm x 70 mm) having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 04.6)	cum	14,067.19	14,027.11	13,839.03	13,839.03
5.04.07	Brick work with 241 mm x 114 mm x 70 mm size machine made solid klinker facing bricks having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.7)	cum	11,335.36	11,298.36	11,116.44	11,116.44
5.04.08	Brick works with 241 mm x 114 mm x 70 mm size 10 hole machine made rock-face or textured klinker facing bricks having uniform colour carefully laid in cement sand (F.M. 1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.8)	cum	13,815.39	13,782.50	13,616.00	13,616.00
5.04.09	Brick works with 241 mm x 114 mm x 70 mm size 3 hole machine made reinforced klinker facing bricks having uniform colour carefully laid in cement sand (F.M.1.2) mortar (1:4) in superstructure with uniform width and depth of joints, true to vertical and horizontal lines including raking out joints, filling the interstices with mortar, cleaning and soaking bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days and pointing with cement sand (F.M. 1.2) mortar (1:2) including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.9)	cum	15,840.11	15,797.97	15,634.56	15,636.61
5.04.10	Added cost for each additional floor above ground floor for brick works (item No.- 5.04.01 to 5.04.09) (PWD 04.10)	cum	183.97	179.86	166.50	166.50
5.04.11	Added cost for brick-work for each additional meter (or part of meter) free height of brick wall beyond 4 m from the respective floor in auditorium, go-down, overhead water tank etc. as description of the item No. 4.2 to 4.9 including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Added cost shall be incorporated in the estimate only when both sides of wall is uninterruptedly free beyond 4.0 meter) (PWD 04.11)	cum	232.28	230.22	217.89	217.89

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1	2	3	4	5	6	7
5.04.12	Providing brick works for 200 mm x 100 mm facing in superstructure with 200 mm x 100 mm x 50 mm machine made klinker hard pressed facing bricks of approved quality with cement sand (F.M. 1.2) mortar (1:4), including racking out joints, cutting the bricks to required size wherever necessary including high class recessed pointing, cleaning and soaking the bricks at least for 24 hours before use and washing and screening of sand, necessary scaffolding, curing at least for 7 days for all floors up to 4th floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (100x200 mm face should be placed for facing). (Cement: CEM-II/B-M) In ground floor (PWD 04.12)	sqm	2,089.47	2,081.25	2,037.06	2,037.06
5.04.13	Providing brick works for 200 mm x 50 mm facing in superstructure with 200 mm x 50 mm x 50 mm machine made hard pressed klinker facing red or maroon strips of approved quality with 20 mm thick cement sand (F.M.1.2) mortar (1:4), 10 mm thick cement mortar in adjacent sides including racking out joints and cutting the bricks to required sizes wherever necessary with high class recessed pointing, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, necessary scaffolding, curing at least for 7 days for all floors up to 4th floor including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.13)	sqm	3,015.50	3,007.28	2,962.06	2,962.06
5.04.14	Providing clay wall tile facing strips (water absorption ratio below 4.5%) in superstructure with machine made hard pressed klinker facing strips of approved quality with 20 mm thick cement sand (F.M.1.2) mortar (1:3) in adjacent side wall, column, drop wall etc. and racking out joints, cutting to required sizes wherever necessary with high class recessed pointing, cleaning and soaking at least for 24 hours before use washing and screening of sand and necessary scaffoldings, curing at least 7 days including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor.(PWD 04.14)					
5.04.14.1	With 200 mm x 62 mm x 16.51 mm red strip (PWD 04.14.1)	sqm	2,735.94	2,727.72	2,681.47	2,681.47
5.04.14.2	With 200 mm x 62 mm x 12.7 mm beige strip (PWD 04.14.2)	sqm	2,983.64	2,975.42	2,929.17	2,929.17
5.04.14.3	With 200 mm x 62 mm x 8.9 mm red strip (PWD 04.14.3)	sqm	2,544.78	2,536.56	2,490.31	2,490.31
5.04.14.4	With 241 mm x 70 mm x 12.7 mm red strip (PWD 04.14.4)	sqm	3,018.58	3,010.36	2,964.11	2,964.11
5.04.14.5	With 241 mm x 70 mm x 12.7 mm red strip (PWD 04.14.5)	sqm	3,458.47	3,450.25	3,404.00	3,404.00
5.04.15	125 mm brick work with first class bricks with cement sand (F.M. 1.2) mortar (1:6) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 04.15)	sqm	1,411.14	1,404.97	1,345.36	1,345.36
5.04.16	125 mm brick works with first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.16)	sqm	1,447.11	1,441.97	1,383.39	1,383.39
5.04.17	Exposed 125 mm thick pointing ornamental brick work with sorted out first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.17)	sqm	1,762.64	1,755.44	1,682.47	1,682.47

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1	2	3	4	5	6	7
5.04.18	Exposed 125 mm thick pointing ornamental brick work with automatic machine made first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.18)	sqm	1,820.19	1,813.00	1,776.00	1,776.00
5.04.19	Providing 125 mm thick brick work in superstructure (partition walls) with cement sand (F.M. 1.2) mortar (1:4) with 10 hole machine made ceramic bricks of approved size having uniform colour, carefully laid in cement mortar of uniform width & depth of joints, true to vertical and horizontal lines including racking out joints, filling the interstices with same mortar, making bond with connected walls, cleaning, soaking brick at least 24 hours and washing of sand, curing 7 days in all floors, including cost of water, electricity and other charges accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.19)	sqm	1,979.50	1,973.33	1,942.50	1,942.50
5.04.20	Fancy screen work with different size hollow machine made design blocks of uniform colour, carefully laid in cement sand (F.M. 1.2) mortar (1:3) in all floors in wall with uniform mortar joints, true to vertical and horizontal line including racking out joints, cleaning and soaking the blocks for minimum 24 hours before use including washing and screening of sand, scaffolding, curing etc. complete in all respect including supply of all necessary materials, cost of water, electricity and other charges accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.20)					
5.04.20.1	With design block size: 114 mm x 114 mm x 114 mm or equivalent volume & design. In ground floor (PWD 04.20.1)	sqm	4,694.89	4,683.58	4,628.08	4,628.08
5.04.20.2	With design block size: 140 mm x 140 mm x 102 mm or equivalent volume & design. In ground floor (PWD 04.20.2)	sqm	3,360.83	3,350.56	3,297.11	3,297.11
5.04.20.3	With design block size: 152 mm x 152 mm x 102 mm or 152 mm x 152 mm x 114 mm or equivalent volume and design. In ground floor (PWD 04.20.3)	sqm	3,103.89	3,093.61	3,040.17	3,040.17
5.04.20.4	With design block size: 203 mm x 203 mm x 108 mm or equivalent volume and design. In ground floor (PWD 04.20.4)	sqm	2,326.89	2,315.58	2,269.33	2,269.33
5.04.20.5	With design block size: 203 mm x 121 mm x 102 mm or equivalent volume and design. In ground floor (PWD 04.20.5)	sqm	2,555.06	2,543.75	2,497.50	2,497.50
5.04.20.6	With design block size: 152 mm x 152 mm x 152 mm or equivalent volume and design. In ground floor (PWD 04.20.6)	sqm	3,103.89	3,093.61	3,040.17	3,040.17
5.04.20.7	With design block size: 241 mm x 114 mm x 70 mm or equivalent volume and design. In ground floor (PWD 04.20.7)	sqm	2,485.17	2,474.89	2,421.44	2,421.44
5.04.21	Added cost for each additional floor above ground floor for brick and screen block works (item No.- 4.12 to 4.20) [PWD 04.21]	sqm	29.81	29.81	26.72	26.72
5.04.22	Klinker paving brick works in floor or pavement with machine made pressed bricks of approved quality with cement sand (F.M. 1.2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1.2) mortar (1:4) including raking out joints, cutting the bricks to required size, soaking the same for 24 hours before use wherever necessary including high class flush pointing in cement mortar (1:2), cleaning, curing at least for 7 days etc. including washing and screening of sand, cost of water, electricity and other charges complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.22)					
5.04.22.1	100 mm thick flat brick pavement with 200 mm x 100 mm x 50 mm size klinker facing bricks. (PWD 04.22.1)	sqm	3,260.11	3,246.75	3,200.50	3,200.50
5.04.22.2	50 mm thick brick on edge pavement with 200 mm x 100 mm x 50 mm klinker paving bricks in 1:4 cement sand mortar having 200 mm x 100 mm face at top (PWD 04.22.2).	sqm	1,992.86	1,981.56	1,943.53	1,943.53

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1	2	3	4	5	6	7
5.04.22.3	50 mm thick brick pavement with 200 mm x 50 mm x 50 mm klinker facing bricks. (PWD 04.22.3)	sqm	2,933.28	2,921.97	2,878.81	2,878.81
5.04.23	125 mm thick brick pavement or flooring with first class brick on edge with cement sand (F.M. 1.2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1.2) mortar (1:4) including cutting the bricks as per requirement, cleaning and racking out joints, finishing with flush pointing with cement sand (F.M. 1.2) mortar (1:2) and curing for at least 7 days etc. including cost of water, washing and screening of sand (F.M. 1.2), electricity and other charges complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.23)	sqm	1,670.14	1,659.86	1,588.94	1,588.94
5.04.24	125 mm thick brick pavement/flooring with 10 hole machine made ceramic bricks with cement sand (F.M. 1.2) mortar (1:4) on minimum 12 mm thick cement sand (F.M. 1.2) mortar (1:4) including cutting the bricks as per requirement, cleaning and racking out joints, finishing with flush pointing with cement sand (F.M. 1.2) mortar (1:2) and curing for at least 7 days etc. including cost of water, washing and screening of sand (F.M. 1.2), electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.24)	sqm	2,139.83	2,129.56	2,090.50	2,090.50
5.04.25	75 mm thick cement concrete (1:3:6) flooring with cement, best quality coarse sand and 19 mm down graded picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting, washing and screening of sand (F.M 1.2) and curing at least for 7 days etc. including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) (PWD 04.25)	sqm	721.50	721.50	698.89	698.89
5.04.26	Supplying, fitting and fixing of approved quality 190 mm x 190 mm size glass bricks in round stair wall including all accessories & charges, complete in all respect and accepted by the Engineer-in-charge.[PWD 22.21]	sqm	16,986.08	16,983.00	16,842.19	16,842.19
5.04.27	Supplying, fitting & fixing 50 mm thick rock or glass wool padding of approved quality and accepted by the Engineer-in-charge.[PWD 22.22]	sqm	4,472.89	4,448.22	4,411.22	4,411.22
Section 05: Reinforced Cement Concrete (Rcc) Works With Shutter						
5.05.01	RCC WORKS: 1:2:4 (measured on gross concrete section) (f'c = 19 MPa, minimum f'cr = 26 MPa in nominal mix 1:2:4), with brick-chips (Sand of F.M. 1.2 and F.M. 2.2 in equal proportion) Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.45 and minimum f'cr = 26 MPa, satisfying a specified compressive strength f'c= 19 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality sand [50% quantity of best local sand (F.M. 1.2) and 50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2] and 20 mm down well graded picked jhama brick chips conforming to ASTM C-33 including conducting necessary tests, breaking chips and screening, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (PWD 07.1)						
5.05.01.01	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level (PWD 07.1.1)	cum	10,577.89	10,547.06	10,313.75	10,319.92
5.05.01.02	Pedestal, column, column capital, lift wall and wall up to ground floor (PWD 07.1.2)	cum	10,946.86	10,909.86	10,654.97	10,661.14

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1	2	3	4	5	6	7
5.05.01.03	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and step etc. up to ground floor (PWD 07.1.3)	cum	10,724.86	10,691.97	10,449.42	10,455.58
5.05.01.04	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor (PWD 07.1.4)	cum	11,315.83	11,272.67	10,995.17	11,001.33
5.05.02	RCC WORKS: 1:2:4 (measured on gross concrete section) (f 'c = 22 MPa, minimum f 'cr = 30.5 MPa in nominal mix 1:2:4), with stone chips (100% sand of F.M. 2.2)Reinforced cement concrete works with minimum cement content relates to mix ratio 1:2:4 having maximum water cement ratio = 0.40 and minimum f'cr = 30.5 MPa, satisfying a specified compressive strength f'c = 22 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing in standard mixer machine with hopper fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity,other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) (PWD 07.2.)					
5.05.02.01	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level (PWD 07.2.1)	cum	14,520.44	14,691.06	13,323.08	13,718.78
5.05.02.02	Pedestals, column, column capital, lift wall and RCC wall up to ground floor (PWD 07.2.2)	cum	14,889.42	15,053.86	13,664.31	14,060.00
5.05.02.03	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor (PWD 07.2.3)	cum	14,668.44	14,837.00	13,459.78	13,855.47
5.05.02.04	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor (PWD 07.2.4)	cum	15,259.42	15,417.69	14,005.53	14,401.22
5.05.03	RCC WORKS: 1:1.5:3(measured on gross concrete section)(f'c = 25MPa, minimum f'cr = 33.5 MPa in nominal mix 1 : 1.5 : 3), with stone chips (100% sand of F.M. 2.2)Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.5:3 having maximum water cement ratio = 0.40 and minimum f'cr = 33.5 MPa, satisfying a specified compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper, fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) (PWD 07.3)					
5.05.03.01	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level (PWD 07.3.1)	cum	15,010.69	15,173.08	13,865.75	14,242.94
5.05.03.02	Pedestals, column, column capital, lift wall and RCC wall up to ground floor (PWD 07.3.2)	cum	15,379.67	15,535.89	14,206.97	14,584.17

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1	2	3	4	5	6	7
5.05.03.03	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. upto ground floor (PWD 07.3.3)	cum	15,157.67	15,318.00	14,002.44	14,379.64
5.05.03.04	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor (PWD 07.3.4)	cum	15,748.64	15,898.69	14,548.19	14,925.39
5.05.04	RCC WORKS : 1:1.25:2.5 (measured on gross concrete section)(f'c = 32 MPa, minimum f'cr = 40.5 MPa in nominal mix 1 : 1.25 : 2.5)With Stone Chips and Admixture (Type-G) (100% sand of F.M. 2.2)Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having maximum water cement ratio = 0.40 and minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c = 32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa)/ ASTM-C 150 Type – I, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (PWD 07.4)					
5.05.04.01	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level (PWD 07.4.1)	cum	16,125.83	16,282.06	15,019.94	15,383.78
5.05.04.02	Padestal, column, column capital, lift wall and RCC wall up to ground floor (PWD 07.4.2)	cum	16,495.83	16,644.86	15,361.17	15,725.00
5.05.04.03	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor (PWD 07.4.3)	cum	16,273.83	16,426.97	15,156.64	15,520.47
5.05.04.04	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor (PWD 07.4.4)	cum	16,864.81	17,007.67	15,702.39	16,066.22

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.05	RCC WORKS: 1:1:2 (measured on gross concrete section)(f'c = 40 MPa, minimum f'cr = 50 MPa in nominal mix 1 : 1 : 2) With stone chips and admixture (Type-G)(100% sand of F.M. 2.2)Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1:2 having minimum f'cr = 50 Mpa, satisfying a specified compressive strength f'c = 40 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, and adding approved high range water reducing admixture of complying specific type (generally be Type-G) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) (PWD 07.5)					
5.05.05.01	Individual & combined footing, pile cap, raft/mat and foundation beam up to plinth level (PWD 07.5.1)	cum	16,789.78	16,936.75	15,736.31	16,081.64
5.05.05.02	Pedestal, column, column capital, lift wall and RCC wall upto ground floor (PWD 07.5.2)	cum	17,158.75	17,300.58	16,076.50	16,422.86
5.05.06	Fair-faced RCC WORKS: 1:1.5:3 (measured on gross concrete section)(f'c = 25 MPa, minimum f'cr = 33.5 MPa in nominal mix 1:1.5:3)(100% sand of F.M. 2.2) Cast-in-place fair-faced concrete works with f'cr=33.5 Mpa and f'c=25 Mpa at 28 days on standard cylinders by using 75% of OPC and 25% of white cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I, best quality Sylhet sand or coarse sand of equivalent F.M. 2.2, 20 mm down and well graded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification) at mix ratio of 1:1.5:3, adding coloring pigment admixture (satisfying ASTM C979) as per architectural design, conforming to the standard practice of code ACI/BNBC/ASTM including conducting necessary tests, screening sand and chips through proper sieves, washing, making and placing shutter in position maintaining true to plumb, making shutter water tight properly, placing reinforcement in position, including pouring of concrete in form, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) (PWD 07.6)					
5.05.06.01	For column, wall, beam, slab, drop wall, cornice etc. up to ground floor (PWD 07.6.1)	cum	18,451.69	18,596.61	17,227.61	17,604.81

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.07.01	RCC WORKS: batch mix/machine mix with approved mix design, well graded stone chips (100% sand of F.M. 2.2) and required admixture: Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'cr = 33.5 MPa, satisfying a specified compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 385 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.7.1)	cum	16,191.61	16,363.25	15,093.94	15,471.14
5.05.07.02	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c =32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 445 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity,cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.7.2)	cum	16,698.31	16,862.75	15,639.69	16,003.53

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.07.03	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'cr = 50 MPa, satisfying a specified compressive strength f' c =40 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 500 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.7.3)	cum	17,092.97	17,250.22	16,080.61	16,428.00
5.05.07.04	Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'cr = 60 MPa, satisfying a specified compressive strength f' c =50 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494 (Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content (minimum 500 kg/ cum) and micro silica (minimum 25 kg/ cum) as per approved design mix, including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.7.4)	cum	19,622.33	19,779.58	18,611.00	18,958.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.08.01	RCC WORKS: from Ready-Mix Concrete plant with approved mix design, well graded stone chips (100% sand of F.M. 2.2) and required admixture: Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 33.5 MPa, satisfying a specified compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in apppendix), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 385 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.1	cum	15,447.50	15,619.14	14,349.83	14,727.03
5.05.08.02	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c = 32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 445 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.2)	cum	15,954.19	16,118.64	14,894.56	15,258.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.08.03	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 50 MPa, satisfying a specified compressive strength f' c = 40 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline) making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 500 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.3)	cum	16,348.86	16,506.11	15,336.50	15,683.89
5.05.08.04	Reinforced cement concrete works from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 60 MPa, satisfying a specified compressive strength f' c = 50 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content (minimum 500 kg/ cum) and micro silica (minimum 25 kg/ cum) as per approved design mix, carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation to 4th floor) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.4)	cum	18,878.22	19,035.47	17,865.86	18,213.25

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.08.05	Reinforced cement concrete works for thick mat foundation from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 33.5 MPa, satisfying a specified compressive strength f'c = 25 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to CEM-II/B-M 42.5N (42.5MPa), best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 400 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity,cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation: MAT) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.5)	cum	15,235.78	15,403.31	14,161.75	14,530.72
5.05.08.06	Reinforced cement concrete works for thick mat foundation from Ready-Mix concrete with minimum cement content relates to approved mix ratio having minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c = 32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to CEM-II/B-M 42.5N (42.5MPa), best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 460 kg/ cum), carrying to the site of laying using Transit Mixer (considering setting time of concrete from plant to the site), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm (measured at site), casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). (Foundation: MAT) Note: The mix design shall be done from PWD testing laboratory or other recognized laboratories and be consulted with concerned design office. (PWD 07.8.6)	cum	15,702.39	15,863.75	14,669.47	15,024.06

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.09	RCC WORKS : 1:1.25:2.5 (measured on gross concrete section)(f'c = 30 MPa, minimum f'cr = 38.5 MPa in nominal mix 1 : 1.25 : 2.5) With Stone Chips and Admixture (100% sand of F.M. 2.2) For Saline Zone :Reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum f'cr = 38.5 MPa, satisfying a specified compressive strength f'c = 30 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM, Cement conforming to CEM-II/B-M 42.5N (42.5MPa), and adding approved high range water reducing admixture of complying specific type (generally be Type-G or F) under ASTM-C 494, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M. 2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), including conducting necessary tests, screening sand through proper sieves, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; mixing with standard mixer machine with hopper and fed by standard measuring boxes or in batching plant, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Doses of admixture to be fixed in consultation with design office) (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering) (PWD 07.9)					
5.05.09.01	Individual & combined footing, pile cap, raft/mat, floor slab and foundation beam up to plinth level (PWD 07.9.1)	cum	15,901.78	16,056.97	14,794.86	15,158.69
5.05.09.02	Padestal, column, column capital, lift wall and RCC wall up to ground floor (PWD 07.9.2)	cum	16,270.75	16,419.78	15,136.08	15,499.92
5.05.09.03	Floor / roof slab, T-beam, L-beam and rectangular beam, tie beam, lintel, stair case slab and steps etc. up to ground floor (PWD 07.9.3)	cum	15,669.50	15,822.64	14,552.31	14,915.11
5.05.09.04	Cornice, railing, drop wall, louver, fins, sunshade, false ceiling, waffle and ribbed floor slab etc. up to ground floor (PWD 07.9.4)	cum	16,260.47	16,403.33	15,098.06	15,461.89
5.05.10.01	Added rate for RCC works/fair-faced concrete works (materials, consumables and laying/placing concrete) in column, column capital, lift wall & wall, T- beam, L-beam, rectangular beams, floor / roof slab, cantilever slab, waffle slab and drop panels where the free height of the structure exceeds 4 meter (rate is considered for each additional meter height) (PWD 07.10)	cum	349.44	344.31	320.67	320.67
5.05.10.02	Added rate for RCC work/fair-faced work in additional floor: concrete (PWD 07.11.1)	cum	95.58	95.58	95.58	95.58
5.05.10.03	Added rate for RCC work in additional floor: concrete (concrete from batching or Ready-Mix Plant) (PWD 07.11.2)					
5.05.10.04	Add for each cum of concrete from 5th floor to 14th floor: (PWD 07.11.2.1)	cum	19.53	19.53	19.53	19.53
5.05.10.05	Add for each cum of concrete above 15th floor:(PWD 07.11.2.2)	cum	48.31	48.31	48.31	48.31
5.05.11	FORM WORK (Steel) :Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 16 BWG, angles of minimum size 40 mm x 40 mm x 5 mm, flat bars etc.) and removal of form for: (PWD 07.12)					
5.05.11.01	Individual and combined footing (PWD 07.12.1)	sqm	598.17	595.08	583.78	583.78
5.05.11.02	In raft/mat/floor slab up to plinth level (PWD 07.12.2)	sqm	603.31	600.22	586.86	586.86
5.05.11.03	Foundation beam (PWD 07.12.3)	sqm	506.69	505.67	499.50	499.50
5.05.11.04	Pedestal, column, column capital, lift wall and wall up to ground floor (PWD 07.12.4)	sqm	536.50	535.47	531.36	531.36

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.11.05	Tie beam and lintel: ground floor (PWD 07.12.5)	sqm	558.08	556.03	549.86	549.86
5.05.11.06	T-beam, L-beam and rectangular beam etc up to ground floor (PWD 07.12.6)	sqm	589.94	588.92	584.81	584.81
5.05.11.07	Floor and roof slab up to ground floor (PWD 07.12.7)	sqm	613.58	612.56	606.39	606.39
5.05.11.08	Cornice, railing, drop walls, louver, fins etc.: ground floor (PWD .07.12.8)	sqm	500.53	499.50	492.31	492.31
5.05.11.09	Sunshade, false ceiling: ground floor (PWD 07.12.9)	sqm	556.03	555.00	548.83	548.83
5.05.11.10	Stair case slab and steps up to ground floor (PWD 07.12.10)	sqm	566.31	565.28	561.17	561.17
5.05.11.11	Waffle or ribbed floor upto ground floor (PWD 07.12.11)	sqm	740.00	738.97	732.81	732.81
5.05.11.12	Arches, domes, vaults up to 8m span (for single use) (PWD 07.12.12.1)	sqm	2,232.33	2,231.31	2,227.19	2,227.19
5.05.11.13	Arches, domes, vaults up to 8 m span (for 2-times use) (PWD 07.12.12.2)	sqm	1,563.25	1,562.22	1,559.14	1,559.14
5.05.11.14	Arches, domes, vaults up to 8 m span (for 3-times use) (PWD 07.12.12.3)	sqm	1,116.17	1,116.17	1,114.11	1,114.11
5.05.11.15	Arches, domes, vaults up to 8 m span (for more than 3-times use) (PWD 07.12.12.4)	sqm	782.14	781.11	780.08	780.08
5.05.11.16	Added rate for arches, domes, vaults exceeding 8 m span (PWD 07.13)	sqm	558.08	558.08	557.06	557.06
5.05.11.17	Added rate for shuttering in circular work (PWD 07.14)	sqm	118.19	118.19	117.17	117.17
5.05.11.18	Added rate for additional height in centering, shuttering where ever required with adequate bracing, propping etc. over a height of 4.0 m, for every additional height of 1 meter or part thereof. (PWD 07.15)	sqm	58.58	58.58	58.58	58.58
5.05.11.19	Added rate for formwork/shuttering in additional floor (PWD 07.16)	sqm	18.50	18.50	16.44	16.44
5.05.12.01	Formwork for making 'fair-faced' surface of the concrete as per design, drawing and direction of Engineer-in-charge. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 10 BWG, angles of minimum size 50 mm x 50 mm x 6 mm, flat bars, formwork releasing agent etc.) (PWD 07.17)	sqm	1,140.83	1,138.78	1,134.67	1,134.67
5.05.13	FORMWORK (Wooden) for boundary wall, gate, centry post etc. Centering and shuttering, including strutting, propping etc. and removal of form for: (PWD 07.18)					
5.05.13.01	Individual and combined footings (PWD 07.18.1)	sqm	537.53	534.44	515.94	515.94
5.05.13.02	Foundation beam (PWD 07.18.2)	sqm	488.19	487.17	470.72	470.72
5.05.13.03	Padestals, column, wall (PWD 07.18.3)	sqm	540.61	539.58	522.11	522.11
5.05.13.04	Tie beam & lintels (PWD 07.18.4)	sqm	535.47	534.44	515.94	515.94
5.05.13.05	T-beam, L-beam and rectangular beam (PWD 07.18.5)	sqm	522.11	521.08	503.61	503.61
5.05.13.06	Floor & roof slab (PWD 07.18.6)	sqm	576.58	572.47	567.33	567.33
5.05.13.07	Cornice, railing, drop wall, louver, fins etc. (PWD 07.18.7)	sqm	471.75	470.72	457.36	457.36
5.05.13.08	Sunshade, false ceiling (PWD 07.18.9)	sqm	484.08	484.08	471.75	471.75
5.05.13.09	Stair case slab and steps (PWD 07.18.9)	sqm	469.69	469.69	457.36	457.36

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1	2	3	4	5	6	7
5.05.14	Supply and use of specified type chemical admixture delivered from an authorized local agent or manufacturer, complying with the ASTM C-494 requirements; conforming the current compliance of the admixture to specification requirements like physical properties, uniformity and equivalence in composition etc.; performance (water content, fresh concrete setting time and compressive strength) requirements, delivered in sealed water-tight containers confirming plainly marked product name & type under this specification, net weight and /or volume, manufacturing and expiry date, non aggressiveness to environment, aggregates and metals in concrete etc. and mixing the admixture in non pre-stressed cement concrete mixture in the field in accordance with manufacturers recommendation and instruction; providing safety provisions in all respects etc. all complete as per instruction and approved by the Engineer-in-charge. Dose (quantity in milli litres per 50 kg bag cement) and brand/origin/ manufacturer with respect to particular brand of cement and particular stock of aggregates and method of use to be determined by mix design / trial mix at the cost of contractor and approved by the Engineer. (Use of admixture is subjected to prior approval of design office) (PWD .07.19)					
5.05.14.01	Supply and use of water reducing chemical admixture in concrete, complying ASTM C-494 Type – A of approved brand / origin / manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture is to reduce quantity of mixing water required for normal workability and to maintain low water-cement (W/C) ratio, for improved concrete quality assurance. (PWD 07.19.1)	liter	210.69	209.67	208.64	208.64
5.05.14.02	Supply and use of retarding chemical admixture in concrete, complying ASTM C-494 Type - B of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture for retarding setting time of concrete, there by reducing shrinkage in concrete specially for concrete laid in thick layers and intended delayed construction for improved construction joints, re-concreting etc.(PWD 07.19.2)	liter	214.81	214.81	214.81	214.81
5.05.14.03	Supply and use of accelerating chemical admixture in concrete, complying ASTM C-494 Type - C of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that is to accelerate the setting time and early strength gain of concrete. (PWD 07.19.3)	liter	151.08	151.08	151.08	151.08
5.05.14.04	Supply and use of water-reducing and retarding chemical admixture in concrete, complying ASTM C-494 Type - D of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (W/C) ratio and intend to retard setting time of concrete, specially for layered, thick laid concrete etc. (PWD 07.19.4)	liter	277.50	277.50	277.50	277.50
5.05.14.05	Supply and use of water-reducing and accelerating chemical admixture in concrete, complying ASTM C-494 Type - E of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture to reduce the quantity of mixing water required to produce concrete of given consistency, i.e. low water-cement (W/C) ratio and intend to accelerate setting time of concrete, and early strength gain in concrete etc. (PWD 07.19.5)	liter	239.47	239.47	239.47	239.47
5.05.14.06	Supply and use of water-reducing high range chemical admixture in concrete, complying ASTM C-494 Type - F of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete. (PWD 07.19.6)	liter	277.50	277.50	277.50	277.50

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.14.07	Supply and use of water-reducing high range and retarding chemical admixture in concrete, complying ASTM C-494 Type - G of approved brand/origin/manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. The admixture required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength of concrete and intend to retard setting time of concrete. (PWD 07.19.7)	liter	207.61	207.61	207.61	207.61
5.05.14.08	Supply and use of best quality pliable, cold applied pre-formed self adhesive rubberized/ bituminous water proofing membrane of approved brand / origin / manufacturer from an authorized local agent or manufacturer having minimum thickness 1.5 mm, lined with 2 ply cross laminated high density polyethylene film performances and properties all conforming to ASTM standards and laying, placing, fixing on made up firm and dry surfaces free from hollows, sharp protrusions, contaminates etc. laid over-lap by at least 75 mm along the edges and 125 mm at ends ensuring good initial bond with the surfaces all complete under the strict accordance with the manufacturer recommendations and instructions providing all safety provisions in all respects and accepted by the Engineer. (supplied by only manufacturer's authorised dealer with certificate of origin) under following specification: Backing(HDPE) thickness minimum 0.10mmMembrane thickness minimum 1.40mmTotal thickness minimum 1.50mmCold flexibility greater than (-)200C: ASTM D146Pliability: "No crack" tested in ASTM D146Tensile strength (film only) min 3.50 MPa(35000kN/m2) testing in ASTM D882Tensile strength (composite) at least 2.40 MPa or N/mm2Elongation (composite) min 300%Cycling over crack at (-) 320C No effect 100 cycles ASTM C836-89aPuncture resistance greater than 240N ASTM E 154-88Resistance to hydrostatic head at least 50m ASTM D5385Tear resistance min 4.0 MPa (N/mm2)Adhesion to primed concrete min 4.0 N/mm : ASTM D1000Water vapor transmission Less than 0.10g/m2 per hour : ASTM E96Water absorption in 24 hour Less than 0.33% ASTM D570Heat stability (+) 900CEnvironmental complience to conform: ASTM D543 (PWD 07.20)					
5.05.14.08.1	Water-proofing membrane on external surface of primed vertical or inclined wall /on plastered and primed back-wall and concrete cast against membrane. (Excluding cost of back fill/brick wall on back/plaster when membrane laid on back-wall and concrete cast against membrane which to be paid as per corresponding items in this schedule) (PWD 07.20.1)	sqm	1,115.14	1,112.06	1,098.69	1,098.69
5.05.14.08.2	Water-proofing membrane on made up surface below the floor or below the horizontal surfaces with temporary protective cover using polystyrene/38 mm thick sand-cement mortar in 4:1 /or by equally effective alternative. (Rate is excluding the cost of protective cover which to be paid as per corresponding items in this schedule) (PWD 07.20.2)	sqm	919.86	917.81	910.61	910.61
5.05.14.08.3	Water-proofing membrane on the floor or on the horizontal surfaces with permanent protective cover & wearing coarse. (Rate is excluding the cost of protective cover and wearing coarse which to be paid as per corresponding items in this schedule) (PWD 07.20.3)	sqm	955.83	954.81	946.58	946.58

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.05.14.09	Supply of polymer based curing compound as per ASTM C 309 or BS 7542-1992 standard and apply by stirring & spraying with motorized sprayers over the surface of fresh concrete free from surface water and avoiding bleeding of concrete maintaining the spray nozzle approximately 450 mm away from the concrete surface with passed back and forth to ensure complete coverage confirming the pump pressure for fine spray and keeping the concrete surface undisturbed until it has sufficient strength to bear surface loads [The suitability of motorized sprayer should be ensured by an application trial] ensuring adequate ventilation to avoid inhalation of vapors and contact with skin and eyes all complete and accepted by Engineer-in-charge. (PWD 07.21)	sqm	224.06	220.97	211.72	211.72
5.05.14.10	Supply of epoxy bonding agent following ASTM C881 / C881M - 14 or any international acceptable standard and apply over the old concrete surface after making free of standing water, removal of dust, laitance, grease, curing compounds, impregnations, waxes and any other contaminants to achieve optimum bonding in between fresh and old concrete and accepted by the Engineer-in-charge. (PWD 07.22)	sqm	1,118.22	1,113.08	1,097.67	1,097.67
5.05.14.11	Supply of best quality salt guard coating on concrete surface following ASTM B117 delivered from authorized local agent of the manufacturer in a sealed container and apply by a firm experienced in applying salt guard coating or workers trained and approved by manufacturer to wall and ceiling in 2 coats elapsing specified time for drying/ recoating including cleaning and sand papering making the surface free from loose and efflorescence, flaky materials, dirt, grease, wax, polish, scraping all chalked and scaled materials, applying the paint by brush/spray following manufacturer's written instructions and necessary scaffolding etc. all complete and accepted by the Engineer-in-charge (PWD 07.23)	sqm	48.31	47.28	46.25	46.25
5.05.14.12	Supplying, fitting and fixing of 0.45mm thick foreign made celulloid paper for fair face form works to add extra smoothness in surface applying in shutter top with liquid glue etc of celluloid paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the engineer in charge. (PWD 07.24)	sqm	179.86	178.83	176.78	176.78
Section 06: M.S. Fabrication And Joints In Rc Works						
5.06.01	Supplying, fabrication and fixing to detail as per design : ribbed or deformed bar reinforcement (excluding laboratory test fees) for Reinforced concrete, produced and marked in accordance with BDS ISO 6935-2:2016 (or standard subsequently released from BSTI) including straightening and cleaning rust, if any, bending and binding in position with supply of G.I. wires,conducting necessary laboratory tests etc. (excluding splices or laps) complete in all respect and accepted by the Engineer-in-charge (Measurement shall be recorded only on standard mass per unit length of bars, while dia of bars exceeds its standard) . (PWD 08.1)					
5.06.01.01	Grade 300 (B300DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 300 MPa but fy not exceeding 350 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor . (PWD 08.1.11)	kg	113.06	113.06	112.03	112.03

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.06.01.02	Grade 400 (B400DWR / B420DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 400 MPa but fy not exceeding 480 MPa and whatever is the actual yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor. . (PWD 08.1.2)	kg	124.36	124.36	123.33	123.33
5.06.01.03	Grade 500 (B500DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to actual yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.(To be used for pile work, earth retaining wall, boundary wall, water reservoir & other structures as per instruction of concerned design CHAPTER) . (PWD 08.1.3)	kg	121.28	121.28	121.28	121.28
5.06.01.04	Added rate for M.S. Fabrication work in additional floor above ground floor . (PWD 08.2)	kg	0.69	0.68	0.63	0.63
5.06.02	Supplying and fixing of upset forging parallel thread rebar Couplers (excluding laboratory test fees) conforming to ACI-318 on “Building Code Requirements for Structural Concrete” and ISO: 15835 on “ Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars” to ribbed or deformed bars of Grade 400 (B400DWR / B420DWR : complying BDS ISO 6935-2:2016), in splicing main rebars of structural members satisfying the condition that splice shall develop at least 1.25 times greater of yield strength (fy) than that of the connecting rebars in tension and compression including threading, enlargement at connection by forging, protecting the prepared reinforcement bars and related operations as required to complete the works per direction of Engineer-in-Charge. Minimum 0.5% of the total coupled rebars are to be tested for quality assurance.. (PWD 08.3)					
5.06.02.01	Thread Coupler for 20 mm diameter Bar . (PWD 08.3.1)	each	327.86	327.86	324.78	324.78
5.06.02.02	Thread Coupler for 25 mm diameter Bar . (PWD 08.3.2)	each	521.08	520.06	515.94	515.94
5.06.02.03	Thread Coupler for 32 mm diameter Bar . (PWD 08.3.3)	each	748.22	747.19	740.00	740.00
5.06.03	Supplying and fixing of cold extrusion mechanical rebar Couplers (excluding laboratory test fees) conforming to ACI-318 on “Building Code Requirements for Structural Concrete” and and ISO: 15835 on “ Steels for the reinforcement of concrete — Reinforcement couplers for mechanical splices of bars” to ribbed or deformed bars of Grade 400 (B400DWR / B420DWR : conforming BDS ISO 6935-2:2016), in splicing main rebars of structural members satisfying the condition that splice shall develop at least 1.25 times greater of yield strength (fy) than that of the connecting rebars in tension and compression including related operations as required to complete the works as per direction of Engineer-in-Charge. Minimum 1.0% of the total coupled rebars are to be tested for quality assurance. . (PWD 08.4)					
5.06.03.01	Press Coupler for 16 mm diameter Bar (minimum Length: 100 mm, maximum Inner diameter: 21 mm, minimum Thickness: 4.5 mm) . (PWD 08.4.1)	each	388.50	387.47	384.39	384.39
5.06.03.02	Press Coupler for 20 mm diameter Bar (minimum Length: 120 mm, maximum Inner diameter: 25 mm, minimum Thickness: 5.5 mm) . (PWD 08.4.2)	each	535.47	534.44	531.36	531.36
5.06.03.03	Press Coupler for 22 mm diameter Bar (minimum Length: 132 mm, maximum Inner diameter: 28 mm, minimum Thickness: 6 mm). (PWD 08.4.3)	each	682.44	681.42	677.31	677.31

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.06.03.04	Press Coupler for 25 mm diameter Bar (minimum Length: 150 mm, maximum Inner diameter: 31 mm, minimum Thickness: 7 mm) . (PWD 08.4.4)	each	878.75	876.69	872.58	872.58
5.06.03.05	Press Coupler for 32 mm diameter Bar (minimum Length: 192 mm, maximum Inner diameter: 38 mm, minimum Thickness: 9 mm) . (PWD 08.4.5)	each	1,483.08	1,481.03	1,475.89	1,475.89
5.06.03.06	installation of water stopper at movable and immovable RCC green joints as per following specification.. (PWD 08.5)					
5.06.04.01	Supplying, fitting and fixing ribbed PVC water stopper with non centre bulb of width approx. 250 mm and approx 9 mm thick for immovable (non working) RCC joints, having minimum tensile strength of 8.27MPa (approx. 1200 psi) min ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc; all complete and accepted by the Engineer-in-charge.. (PWD 08.5.1)	m	1,053.47	1,049.36	1,024.69	1,024.69
5.06.05.01	Supplying, fitting and fixing ribbed PVC water stopper with centre bulb of width approx. 250 mm and approx 9 mm thick for immovable (non working) RCC joints, having minimum tensile of strength 8.27 MPa (approx. 1200 psi) minimum ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc; all complete and accepted by the Engineer-in-charge. . (PWD 08.5.2)	m	1,139.81	1,136.72	1,111.03	1,111.03
5.06.06.01	Supplying, fitting and fixing 250 mm wide 16 SWG Steel Sheet water stopper in RCC construction joint holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc; all complete and accepted by the Engineer-in-charge.. (PWD 08.6)	m	385.42	384.39	380.28	380.28
5.06.07.01	Manufacturing, supplying, fitting and fixing Expansion Joint for gap upto 100mm with 125mmx50mmx6mm and 75mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. . (PWD 08.7.1)	m	8,092.72	8,084.50	8,040.31	8,040.31
5.06.08.01	Manufacturing, supplying, fitting and fixing Expansion Joint for gap more than 100mm up to 150mm with 150mmx50mmx6mm and 100mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. . (PWD 08.7.2)	m	9,521.33	9,513.11	9,469.94	9,469.94
5.06.09.01	Manufacturing, supplying, fitting and fixing Expansion Joint for gap more than 150mm up to 200mm with 175mmx50mmx6mm and 125mmx50mmx6mm galvanized MS angle and 8mm thick galvanized MS plate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (PWD 08.7.3)	m	10,950.97	10,942.75	10,899.58	10,899.58
Section 07 : Wood Works In Door And Window Frame, Roof Truss And Railings						
5.07.01	Supplying and making door and window frames (Chowkat) for all floors in/c wall side grove cutting, moulding by CNC machine or any other means with matured seasoned wood of required size including painting two coats of coal tar to the surface in contact with wall, fitting and fixing in position etc. all complete and accepted by the Engineer-in-charge. (All sizes of wood are finished). [PWD 11.1]					
5.07.01.1	Frame made from seasoned Mehgoni wood (Chemically treated) [PWD 11.1.1]	cum				
5.07.01.1.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.1.1]	cum	139,273.14	138,902.11	136,636.89	136,636.89

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.07.01.1.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.1.2]	cum	121,301.42	121,095.86	119,817.31	119,817.31
5.07.01.2	Frame made from seasoned Garjan/Jam/Local Sal Wood [PWD 11.1.2]	cum				
5.07.01.2.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.2.1]	cum	149,665.00	144,098.56	149,626.97	149,626.97
5.07.01.2.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.2.2]	cum	131,381.86	126,136.08	132,417.86	132,417.86
5.07.01.3	Frame made from seasoned Chattogram Silkarai /Azobe / Okan Loha Kath [PWD 11.1.3]	cum				
5.07.01.3.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.3.1]	cum	165,252.28	164,881.25	162,616.03	162,616.03
5.07.01.3.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.3.2]	cum	146,502.53	146,296.97	145,018.42	145,018.42
5.07.01.4	Frame made from seasoned Local Manjuree / Jarul [PWD 11.1.4]	cum				
5.07.01.4.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.4.1]	cum	227,603.44	222,035.97	227,564.39	227,564.39
5.07.01.4.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.4.2]	cum	206,985.19	201,739.42	208,020.17	208,020.17
5.07.01.5	Frame made from seasoned Chattogram Teak [PWD 11.1.5]	cum				
5.07.01.5.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.5.1]	cum	263,974.44	258,408.00	271,677.64	271,677.64
5.07.01.5.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.5.2]	cum	242,266.75	237,019.94	250,811.69	250,811.69
5.07.01.6	Frame made from seasoned Myanmar(Burma) Teak [PWD 11.1.6]	cum				
5.07.01.6.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.6.1]	cum	404,263.03	398,696.58	406,822.19	406,822.19
5.07.01.6.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.6.2]	cum	378,350.69	373,104.92	381,906.81	381,906.81
5.07.01.7	Frame made from seasoned Jessore & Other Local Teak [PWD 11.1.7]	cum				
5.07.01.7.1	Upto Size 0'-2.5" x 0'-6" (finished) [PWD 11.1.7.1]	cum	191,232.44	190,861.42	188,596.19	188,596.19
5.07.01.7.2	Size greater than 0'-2.5" x 0'-6" and upto 0'-2.5" x 0'-11" (finished) [PWD 11.1.7.2]	cum	171,703.64	171,498.08	170,219.53	170,219.53
5.07.08.1	Supplying, fitting and fixing M.S. flat bar clamp of 225 mm x 38 mm x 6 mm size having bifurcated ends to door and window frames with necessary screws including cutting grooves in chowkat if necessary and encasing inside the wall with cement concrete (1:2:4) etc, all complete and accepted by the Engineer-in-charge. [PWD 11.2.1]	each	131.56	130.53	124.36	124.36
5.07.08.2	Supplying, fitting and fixing M.S. flat bar clamp of 150 mm x 38 mm x 6 mm size having bifurcated ends to door and window frames with necessary rowel plug, screws etc. including cutting grooves in chowkat if necessary etc. all complete and accepted by the Engineer-in-charge. [PWD 11.2.2]	each	134.64	133.61	129.50	129.50
5.07.09.1	Supplying, fitting and fixing double leaf door frame for all floors made with 38mm x 38 mm x 6 mm M.S. angle fitted with 150 mm long 6 nos. iron clamps of same size M.S. angle (with one end bifurcated) with the vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4), mending good the damages, fixing 6 Nos. of 100 mm long iron hinges with the vertical members of the frame all complete including making holes in walls, cutting, sizing, welding, fabricating, carrying from work-shop to site and local carriage, curing etc. all complete as per plan and drawing and accepted by the Engineer-in-charge. [PWD 11.3.1]	m	755.42	754.39	745.14	745.14

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.07.09.2	Supplying, fitting and fixing single leaf door frame for all floors made with 38 mm x 38 mm x 6 mm M.S. angle, fixing 125 mm long 6 nos. iron clamps of same size (with one end bifurcated) with the vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4), mending good the damages, fixing 4 nos. 100 mm size iron hinges with the vertical members of the frame, all complete including making holes in walls, cutting, sizing, welding, fabricating, carriage from workshop to site including local carriage, curing etc. as per plan and drawing etc. all complete and accepted by the Engineer-in–charge. [PWD 11.3.2]	m	731.78	730.75	720.47	720.47
5.07.10	Supplying matured seasoned wood and making roof truss of any size with wall plates as per design including supplying, fabricating and hoisting, scaffolding, fitting and fixing in position with bolts, nuts, painting two coats of coal tar etc. all complete and accepted by the Engineer-in–charge. (All sizes of wood are finished). [PWD 11.4]					
5.07.10.1	Garjan / Jam/ Local Sal wood [PWD 11.4.1]	cum	129,034.42	124,247.03	130,134.14	130,134.14
5.07.10.2	Mehgoni [PWD 11.4.2]	cum	119,681.64	119,570.64	118,444.19	118,444.19
5.07.10.3	Silkarai /Chickrashi [PWD 11.4.3]	cum	143,063.58	142,951.56	141,825.11	141,825.11
5.07.11	Supplying and making hand rail for stair case with matured seasoned wood includingnecessary grove cutting, moulding by CNC machine or any other means with proper corner, finishing as per design, fitting and fixing in position in all floors etc. all complete and accepted by the Engineer-in-charge. [PWD 11.5]					
5.07.11.1	Mehgoni wood stair rail [PWD 11.5.1]	cum	124,944.89	124,748.58	122,490.56	122,490.56
5.07.11.2	Chattogram Silkarai / Chikrashi wood stair rail [PWD 11.5.2]	cum	148,325.81	148,129.50	145,871.47	145,871.47
5.07.11.3	Chattogram Teak wood stair rail [PWD 11.5.3]	cum	237,176.17	232,302.44	244,027.33	244,027.33
5.07.11.4	Myanmar(Burma) Teak wood stair rail [PWD 11.5.4]	cum	363,435.58	358,562.89	365,657.64	365,657.64
5.07.11.5	Jessore & other Local Teak wood stair rail [PWD 11.5.5]	cum	171,707.75	171,511.44	169,252.39	169,252.39
Section 08 : Door-Window Shutter & Fly Proof Wire-Net Shutter, Upvc Door						
5.08.01	Supplying, fitting and fixing of 38 mm thick well matured seasoned (moisture content should be between 12% to 16%) solid wood single leaf door shutter having stile section 100m x 38mm, top rail section 125mm x 38mm, lock rail section 100mm x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.1]					
5.08.01.1	Kathal (SS Fittings) [PWD 12.1.1.1]	sqm	9,293.17	9,261.31	9,069.11	9,069.11
5.08.01.2	Kathal (Brass Fittings) [PWD 12.1.1.2]	sqm	9,671.39	9,640.56	9,447.33	9,447.33
5.08.01.3	Gamari (SS Fittings) [PWD 12.1.2.1]	sqm	8,147.19	7,887.17	8,152.33	8,152.33
5.08.01.4	Gamari (Brass Fittings) [PWD 12.1.2.2]	sqm	8,526.44	8,265.39	8,531.58	8,531.58
5.08.01.5	Chattogram Teak (SS Fittings) [PWD 12.1.3.1]	sqm	13,873.97	13,613.94	14,106.25	14,106.25
5.08.01.6	Chattogram Teak (Brass Fittings) [PWD 12.1.3.2]	sqm	14,252.19	13,992.17	14,484.47	14,484.47
5.08.01.7	Myanmar(Burma) Teak (SS Fittings) [PWD 12.1.4.1]	sqm	20,058.11	19,798.08	20,063.25	20,063.25
5.08.01.8	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.1.4.2]	sqm	20,437.36	20,176.31	20,442.50	20,442.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.02	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden ornamental special design (both sides) single panel flush door shutter having stile, top rail and lock rail section 125 x 38mm and bottom rail section 225mm x 38mm (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.2]					
5.08.02.1	Chattogram Teak (SS Fittings) [PWD 12.2.1.1]	sqm	16,120.69	15,838.06	16,235.81	16,235.81
5.08.02.2	Chattogram Teak (Brass Fittings) [PWD 12.2.1.2]	sqm	15,695.19	15,418.72	15,877.11	15,877.11
5.08.02.3	Myanmar(Burma) Teak (SS Fittings) [PWD 12.2.2.1]	sqm	21,707.69	21,432.25	21,654.25	21,654.25
5.08.02.4	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.2.2.2]	sqm	22,120.86	21,844.39	22,066.39	22,066.39
5.08.03	Supplying, fitting and fixing 38mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden double leaf panel door shutters having stile and top rail section 100mm x 38mm, lock rail section 125mm x 38mm and bottom rail section 225mm x 38mm, panelling 38mm thick both sides raised (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.3]					
5.08.03.1	Kathal (SS Fittings) [PWD 12.3.1.1]	sqm	10,199.67	10,172.94	9,982.81	9,982.81
5.08.03.2	Kathal (Brass Fittings) [PWD 12.3.1.2]	sqm	11,019.83	10,992.08	10,801.94	10,801.94
5.08.03.3	Gamari (SS Fittings) [PWD 12.3.2.1]	sqm	8,934.47	8,653.89	8,970.44	8,970.44
5.08.03.4	Gamari (Brass Fittings) [PWD 12.3.2.2]	sqm	9,753.61	9,473.03	9,789.58	9,789.58
5.08.03.5	Chattogram Teak (SS Fittings) [PWD 12.3.3.1]	sqm	15,263.53	14,983.97	15,550.28	15,550.28
5.08.03.6	Chattogram Teak (Brass Fittings) [PWD 12.3.3.2]	sqm	16,082.67	15,803.11	16,369.42	16,369.42
5.08.03.7	Myanmar(Burma) Teak (SS Fittings) [PWD 12.3.4.1]	sqm	22,100.31	21,819.72	22,136.28	22,136.28
5.08.03.8	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.3.4.2]	sqm	22,919.44	22,638.86	22,955.42	22,955.42
5.08.04	Supplying, fitting and fixing 38mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden double leaf panel door shutters with 1/4th glazed and 3/4th wooden panel having stile and top rail section 100mm x 38mm, lock rail section 125mm x 38mm, and bottom rail section 225mm x 38mm, panelling 38mm thick both sides raised (made from minimum 250mm wide plank) with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.4]					
5.08.04.1	Kathal (SS Fittings) [PWD 12.4.1.1]	sqm	9,040.33	9,014.64	8,849.17	8,849.17
5.08.04.2	Kathal (Brass Fittings) [PWD 12.4.1.2]	sqm	9,168.81	9,147.22	8,996.14	8,996.14
5.08.04.3	Gamari (SS Fittings) [PWD 12.4.2.1]	sqm	7,460.64	7,226.31	7,501.75	7,501.75
5.08.04.4	Gamari (Brass Fittings) [PWD 12.4.2.2]	sqm	8,094.78	7,860.44	8,135.89	8,135.89
5.08.04.5	Chattogram Teak (SS Fittings) [PWD 12.4.3.1]	sqm	12,779.39	12,545.06	13,031.19	13,031.19
5.08.04.6	Chattogram Teak (Brass Fittings) [PWD 12.4.3.2]	sqm	13,423.81	13,189.47	13,674.58	13,674.58
5.08.04.7	Myanmar(Burma) Teak (SS Fittings) [PWD 12.4.4.1]	sqm	18,523.64	18,289.31	18,564.75	18,564.75

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.04.8	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.4.4.2]	sqm	19,167.03	18,933.72	19,208.14	19,208.14
5.08.05	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden grooved single panel flush door shutter having stile, top rail and horizontal panel section 100mm x 38mm and bottom rail section 250mm x 38mm (made from min250mm wide plank) including keeping 6mm x 12mm even groove all around and minimum 12mm grooved lap to each panel with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.5]					
5.08.05.1	Kathal (SS Fittings) [PWD 12.5.1.1]	sqm	9,787.53	9,752.58	9,544.97	9,544.97
5.08.05.2	Kathal (Brass Fittings) [PWD 12.5.1.2]	sqm	10,165.75	10,130.81	9,924.22	9,924.22
5.08.05.3	Gamari (SS Fittings) [PWD 12.5.2.1]	sqm	8,584.00	8,308.56	8,582.97	8,582.97
5.08.05.4	Gamari (Brass Fittings) [PWD 12.5.2.2]	sqm	8,963.25	8,686.78	8,961.19	8,961.19
5.08.05.5	Chattogram Teak (SS Fittings) [PWD 12.5.3.1]	sqm	14,600.61	14,325.17	14,837.00	14,837.00
5.08.05.6	Chattogram Teak (Brass Fittings) [PWD 12.5.3.2]	sqm	14,978.83	14,703.39	15,216.25	15,216.25
5.08.05.7	Myanmar(Burma) Teak (SS Fittings) [PWD 12.5.4.1]	sqm	21,098.22	20,822.78	21,097.19	21,097.19
5.08.05.8	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.5.4.2]	sqm	21,476.44	21,201.00	21,475.42	21,475.42
5.08.06	Supplying, fitting and fixing 36 mm thick factory made solid wooden door shutter from a reputed manufacturer having manufacturer's warranty made of chemically treated (pressure treatment method) timber (moisture content should be between 12 to 16%) having stile 125mm x 36mm, top and bottom rail 140mm x 36mm and horizontal rail 120mm x 36mm including keeping 5mm x 8mm even groove all around with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(Price includes cost of polishing)(All sizes of wood are finished) [PWD 12.6]					
5.08.06.1	Commercial solid wooden door (Normal Polish) With SS Fittings [PWD 12.6.1]	sqm	8,352.75	8,346.58	8,302.39	8,302.39
5.08.06.2	Commercial solid wooden door (Normal Polish) With Brass Fittings [PWD 12.6.2]	sqm	8,691.92	8,684.72	8,641.56	8,641.56
5.08.07	Supplying, fitting and fixing 36 mm thick factory made solid wooden door shutter (moisture content should be between 12 to 16%) from a reputed manufacturer with manufacturer's warranty having stile 150mm x 36mm, top rail 125mm x 36mm, bottom rail 225mm x 36mm with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.7]					
5.08.07.1	Myanmar(Burma) Teak (SS Fittings) [PWD 12.7.1.1]	sqm	31,300.97	31,293.78	31,250.61	31,250.61
5.08.07.2	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.7.1.2]	sqm	31,639.11	31,632.94	31,588.75	31,588.75
5.08.07.3	Mahogany (Chemically treated by Pressure treatment method) (SS Fittings) [PWD 12.7.2.1]	sqm	10,419.61	10,413.44	10,369.25	10,369.25
5.08.07.4	Mahogany (Chemically treated by Pressure treatment method) (Brass Fittings) [PWD 12.7.2.2]	sqm	10,757.75	10,751.58	10,708.42	10,708.42
5.08.07.5	Beech Wood (SS Fittings) [PWD 12.7.3.1]	sqm	19,328.39	19,321.19	19,278.03	19,278.03
5.08.07.6	Beech Wood (Brass Fittings) [PWD 12.7.3.2]	sqm	19,666.53	19,659.33	19,616.17	19,616.17

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.07.7	Added Cost for both side Ultra Violet (UV) Lacquer Polish (One side of door area to be used for measurement) [PWD 12.7.4]	sqm	4,751.42	4,751.42	4,751.42	4,751.42
5.08.08	Supplying, fitting and fixing of 40mm thick Wood Plastic Composite (WPC) door shutter (minimum inner wall thickness 6mm and hinge side wall thickness 15mm) having door frame section 150mm x 62mm weighing 16.7kg/sqm with 4nos 100mm long, 3mm thick hinge, 1 no round lock, 2nos 150mm long handle, hinged cleats and carrying the same to the site and local carriage etc. All complete in all floors and accepted by the Engineer-in-charge. [PWD 12.8]					
5.08.08.1	Door Size 6'9" x 2'6" [PWD 12.8.1]	each	18,189.61	18,186.53	18,157.75	18,157.75
5.08.08.2	Door Size 6'9" x 3'0" [PWD 12.8.2]	each	21,907.08	21,904.00	21,876.25	21,876.25
5.08.08.3	Door Size 6'9" x 3'4" [PWD 12.8.3]	each	23,705.69	23,702.61	23,673.83	23,673.83
5.08.09	Supplying, fitting and fixing 36 mm thick and having density 400 kg/cum solid particle board single leaf flush door shutter for all floors for internal use made of well matured mechanical seasoned Rubber (Malaysian timber) or other approved wooden frame having 1.2mm thick veneer pasted on each side by mechanical process with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.9]					
5.08.09.01	Myanmar(Burma) Teak veneered (SS Fittings) [PWD 12.9.1.1]	sqm	5,682.58	5,679.50	5,656.89	5,656.89
5.08.09.02	Myanmar(Burma) Teak veneered (Brass Fittings) [PWD 12.9.1.2]	sqm	6,020.72	6,017.64	5,996.06	5,996.06
5.08.09.03	Champ veneered (SS Fittings) [PWD 12.9.2.1]	sqm	4,324.89	4,321.81	4,300.22	4,300.22
5.08.09.04	Champ veneered (Brass Fittings) [PWD 12.9.2.2]	sqm	4,664.06	4,659.94	4,638.36	4,638.36
5.08.09.05	Chapalish veneered (SS Fittings) [PWD 12.9.3.1]	sqm	4,324.89	4,321.81	4,300.22	4,300.22
5.08.09.06	Chapalish veneered (Brass Fittings) [PWD 12.9.3.2]	sqm	4,664.06	4,659.94	4,638.36	4,638.36
5.08.09.07	Garjan veneered (SS Fittings) [PWD 12.9.4.1]	sqm	4,488.31	4,484.19	4,462.61	4,462.61
5.08.09.08	Garjan veneered (Brass Fittings) [PWD 12.9.4.2]	sqm	4,826.44	4,823.36	4,801.78	4,801.78
5.08.09.09	For Formica laminated Door (Commercial Lipping) (SS Fittings) [PWD 12.9.5.1]	sqm	6,169.75	6,166.67	6,145.08	6,145.08
5.08.09.10	For Formica laminated Door (Commercial Lipping) (Brass Fittings) [PWD 12.9.5.2]	sqm	6,508.92	6,504.81	6,483.22	6,483.22
5.08.10	Supplying, fitting and fixing well matured seasoned (moisture content should be between 12 to 16%) wooden fixed louver shutter having 62 mm x 125 mm frame and inner horizontal wooden louver 150 mm x 25 mm (minimum 250 mm wide plank) size spaced @ 50 mm c/c fixed with frame in grooves with 4nos 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished). [PWD 12.10]					
5.08.10.1	Gamari [PWD 12.10.1]	sqm	11,888.31	11,409.36	12,144.22	12,144.22
5.08.10.2	Chapalish [PWD 12.10.2]	sqm	13,704.39	13,225.44	13,960.31	13,960.31
5.08.10.3	Chattogram Teak[PWD 12.10.3]	sqm	23,238.06	22,760.14	23,944.14	23,944.14
5.08.10.4	Myanmar(Burma) Teak[PWD 12.10.4]	sqm	35,496.36	35,018.44	35,752.28	35,752.28

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.11	Supplying, fitting and fixing well matured seasoned (moisture content should be between 12 to 16%) wooden glazed ventilator louver shutter having outer frame section 62 mm x 125 mm with 62 mm x 125 mm vertical divider with inner 50mm x 38mm shutter and with 3 Nos. horizontal 38 mm x 38 mm sash bar in each part (minimum 250 mm wide plank) and inner horizontal glazed louver of size 150 mm x 5mm fixed in frame @ 154 mm c/c by cutting grooves in the frame with 4nos. 100mm long, 3mm thick hinge, 12mm dia 250mm long tower bolt, 12mm dia 200mm long socket bolt, 2nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished). [PWD 12.11]					
5.08.11.1	Gamari [PWD 12.11.1]	sqm	8,125.61	7,837.83	8,236.61	8,236.61
5.08.11.2	Chapalish [PWD 12.11.2]	sqm	9,194.50	8,906.72	9,305.50	9,305.50
5.08.11.3	Chattogram Teak [PWD 12.11.3]	sqm	14,804.11	14,515.31	15,179.25	15,179.25
5.08.11.4	Myanmar(Burma) Teak [PWD 12.11.4]	sqm	22,016.03	21,728.25	22,127.03	22,127.03
5.08.12	Supplying fitting and fixing 38 mm thick well matured seasoned (moisture content should be betwen 12 to 16%) wooden double leaf glazed door shutters having stiles and rails section 150 mm x 38 mm (made from minimum 250 mm wide plank) and 5 mm glass panes fitted and fixed with wooden batten, putty and nails, 8nos 100mm long, 3mm thick hinge, 4nos 12mm dia 250mm long tower bolt, 4nos 150mm long handle, hinged cleats and buffer blocks. All complete in all floors and accepted by the Engineer-in-charge.(All sizes of wood are finished). [PWD 12.12]					
5.08.12.1	Chattogram Teak (SS Fittings) [PWD 12.12.1.1]	sqm	9,030.06	8,893.36	9,116.39	9,116.39
5.08.12.2	Chattogram Teak (Brass Fittings) [PWD 12.12.1.2]	sqm	9,601.50	9,464.81	9,687.83	9,687.83
5.08.12.3	Silkarai (SS Fittings) [PWD 12.12.2.1]	sqm	6,768.94	6,751.47	6,618.89	6,618.89
5.08.12.4	Silkarai (Brass Fittings) [PWD 12.12.2.2]	sqm	7,340.39	7,322.92	7,190.33	7,190.33
5.08.12.5	Myanmar(Burma) Teak (SS Fittings) [PWD 12.12.3.1]	sqm	12,242.89	12,106.19	12,212.06	12,212.06
5.08.12.6	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.12.3.2]	sqm	12,814.33	12,677.64	12,782.47	12,782.47
5.08.13	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden glazed window shutters having horizontal and vertical sections of 87 mm x 38 mm and sash bar 38 mm x 38 mm (made from minimum 250 mm wide plank) fitted with 3 mm glass panes with putty and nails and provided with 6nos 75mm long hinges, 2nos 150mm tower bolt, 2 nos handle and 2nos 225mm catch hooks. All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished). [PWD 12.13]					
5.08.13.01	Kathal (SS Fittings) [PWD 12.13.1.1]	sqm	7,971.44	7,948.83	7,780.28	7,780.28
5.08.13.02	Kathal (Brass Fittings) [PWD 12.13.1.2]	sqm	8,783.39	8,760.78	8,592.22	8,592.22
5.08.13.03	Gamari (SS Fittings) [PWD 12.13.2.1]	sqm	7,197.53	7,019.72	7,161.56	7,161.56
5.08.13.04	Gamari (Brass Fittings) [PWD 12.13.2.2]	sqm	8,009.47	7,831.67	7,973.50	7,973.50
5.08.13.05	Chattogram Teak (SS Fittings) [PWD 12.13.3.1]	sqm	11,065.06	10,887.25	11,182.22	11,182.22
5.08.13.06	Chattogram Teak (Brass Fittings) [PWD 12.13.3.2]	sqm	11,877.00	11,699.19	11,994.17	11,994.17
5.08.13.07	Chapalish (SS Fittings) [PWD 12.13.4.1]	sqm	7,816.25	7,639.47	7,780.28	7,780.28
5.08.13.08	Chapalish (Brass Fittings)[PWD 12.13.4.2]	sqm	8,628.19	8,451.42	8,592.22	8,592.22
5.08.13.09	Myanmar(Burma) Teak (SS Fittings) [PWD 12.13.5.1]	sqm	15,241.94	15,064.14	15,205.97	15,205.97
5.08.13.10	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.13.5.2]	sqm	16,053.89	15,877.11	16,017.92	16,017.92

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.14	Supplying, fitting and fixing 38 mm thick well matured seasoned (moisture content should be between 12 to 16%) wooden window shutters one third glazed and two third raised paneling on both sides having horizontal and vertical sections of 87 mm x 38 mm and sash bars 38 mm x 38 mm (made from minimum 250 mm wide plank) fitted with 3 mm glass panes with putty and nails and provided with 6nos 75mm long hinges, 2nos 150mm tower bolt, 2 nos 100mm long handle and 2nos 225mm long catch hooks, All complete in all floors and accepted by the Engineer-in-charge. (All sizes of wood are finished). [PWD 12.14]					
5.08.14.01	Kathal (SS Fittings) [PWD 12.14.1.1]	sqm	11,706.39	11,674.53	11,452.53	11,452.53
5.08.14.02	Kathal (Brass Fittings) [PWD 12.14.1.2]	sqm	12,575.89	12,544.03	12,322.03	12,322.03
5.08.14.03	Gamari (SS Fittings) [PWD 12.14.2.1]	sqm	10,317.86	10,008.50	10,341.50	10,341.50
5.08.14.04	Gamari (Brass Fittings) [PWD 12.14.2.2]	sqm	11,187.36	10,878.00	11,211.00	11,211.00
5.08.14.05	Chattogram Teak (SS Fittings) [PWD 12.14.3.1]	sqm	17,261.53	16,951.14	17,559.58	17,559.58
5.08.14.06	Chattogram Teak (Brass Fittings) [PWD 12.14.3.2]	sqm	18,131.03	17,820.64	18,430.11	18,430.11
5.08.14.07	Chapalish (SS Fittings) [PWD 12.14.4.1]	sqm	11,428.89	11,119.53	11,452.53	11,452.53
5.08.14.08	Chapalish (Brass Fittings) [PWD 12.14.4.2]	sqm	12,298.39	11,989.03	12,322.03	12,322.03
5.08.14.09	Myanmar(Burma) Teak (SS Fittings) [PWD 12.14.5.1]	sqm	24,760.19	24,449.81	24,783.83	24,783.83
5.08.14.10	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.14.5.2]	sqm	25,629.69	25,319.31	25,653.33	25,653.33
5.08.15.1	Supplying, fitting and fixing steel glazed window shutters for all floors with frames as per design having 25 mm x 25 mm x 5 mm angle section for Chowkat and shutters and 50 mm x 25 mm x 5 mm T-section used for vertical member and 25 mm x 5 mm F.I. bar for making box (combining with angle) and 25 mm x 19 mm x 5 mm T-section used for glass divider including all charges for welding, riveting etc. including cost of supplying all essential fittings like iron hinges, plate handle, pin-stopper, adjustable cleat and clamps including supplying, fitting, fixing 3 mm glass panes by pucca putty, for fittig and fixing the frame, making necessary holes in brick walls and R.C.C works and fitting with C.C. (1:2:4) and mending good the damages including all cost of carriage, workshop charges, electricity and labour for fittings, fixing, curing etc. all complete and accepted by the Engineer-in-charge.(Rate is excluding the costs of painting). [PWD 12.15.1]	sqm	6,993.00	6,991.97	6,981.69	6,981.69
5.08.15.2	Supplying, fitting and fixing M.S. door shutters made with 38 mm x 38 mm x 6 mm angle outer frame, inner member 25 mm x 6 mm F.I. bar, cladding with 16 BWG M.S. sheet, 04 nos 75 mm long hinge, 02 nos. locking arrangement with 50 mm x 50 mm x 6 mm M.S. angle chowkat including all charges for welding, riveting etc. including cost of supplying all essential fittings like iron hinges, socket bolts, clamps, for fittig and fixing the frame, making necessary holes in brick walls and R.C.C works and fitting with C.C. (1:2:4) and mending good the damages including all cost of carriage, workshop charges, electricity and labour for fittings, fixing, curing etc. all complete and accepted by the Engineer-in-charge.(Rate is excluding the costs of painting). [PWD 12.15.2]	sqm	7,848.11	7,812.14	7,589.11	7,589.11

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.16	Supplying, fitting and fixing steel glazed window shutters for all floors with frames as per design having 19mm x 19mm x 19mm x 3mm Z-section in frame and 19mm x 3mm F.I. bar for making T-section for horizontal dividers of shutters and 25mm x 3mm F.I. bar for middle vertical members of frame including all cost of charges for fabrication and manufacture by welding, riveting, etc. Supplying all essential fittings like 2 nos stopper handle, 300mm long 3 or 2 nos adjustable iron cleats, 6 or 4 nos 50mm long iron pin hinges, 150mm long 4 nos clamps including supplying, fitting, fixing 3mm glass panes by pucca putty, for fitting and fixing frame making necessary holes in brick and R.C.C. wall or member as necessary filling with C.C. (1:2:4) and mending good the damages including all cost of carriage, electricity, workshop charges and labour for fitting, fixing, etc. all complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the costs of painting) [PWD 12.16]					
5.08.16.1	With provision for fan-light by providing necessary additional materials, 03 nos adjustable 300 mm long iron cleats and 6 nos 50 mm long iron pin hinges (total wt of grill without glass panes is min 28.13 kg for 15 sft) [PWD 12.16.1]	sqm	4,556.14	4,556.14	4,546.89	4,546.89
5.08.16.2	Without provision for fan-light by providing 02 nos adjustable 300 mm long iron cleats and 4 nos 50 mm long iron pin hinges (total wt of grill without glass panes is min 24.84 kg for 15 sft) [PWD 12.16.2]	sqm	4,260.14	4,259.11	4,249.86	4,249.86
5.08.17	Manufacturing, supplying fitting and fixing of fixed glazed frame for all floors with outer member of 19mm x 19mm x 19mm x 3mm Z-section and vertical and horizontal dividers of 19mm x 19mm x 3mm T-section including all cost of fabrication and welding, supplying and fixing of 19mm x 19mm x 3mm angle clamps of 150mm long (with one end bifurcated) of required Nos with the frame, fixing the frame in wall with (1:2:4) cement concrete in the hole for clamp after making necessary grooves, supplying and fixing of 3mm glass panes with pucca putty, mending good all damages, painting iron face with two coats of synthetic enamel paint over a coat of anti-corrosive priming of approved colour and quality etc. cost of electricity, workshop charges, carriage etc. all complete as per drawing and accepted by the Engineer-in-charge. [Rate is excluding the cost of painting](Scope of work of this item is in staircase and over partition wall etc.) [PWD 12.17]	sqm	4,206.69	4,206.69	4,194.36	4,194.36
5.08.18	Supplying, fitting and fixing 25 mm thick wooden double leaf fly proof wire mesh window shutters for all floors with 75 mm x 25 mm vertical and horizontal stile and sash bar of 38 mm x 25 mm section provided with 24 B.W.G. G.I wire mesh netting of 20 mm mesh fitted and fixed with shutter by 12 mm x 12 mm wooden bit, screws, nails, etc. including supply of all necessary fittings such as 2 Nos 150 mm long tower and socket bolt of best quality 4 Nos 75mm long hinges, 2 Nos 150 mm long catch hook and 2 Nos. 100 mm long handle including fitting and fixing the same in position with frame with supply of necessary screws, nails, etc. complete and accepted by the Engineer-in-charge.(All sizes of wood are finished) [PWD 12.18]					
5.08.18.1	Kathal (SS Fittings) [PWD 12.18.1.1]	sqm	6,003.25	5,983.72	5,840.86	5,840.86
5.08.18.2	Kathal (Brass Fittings) [PWD 12.18.1.2]	sqm	7,173.89	7,155.39	7,011.50	7,011.50
5.08.18.3	Chattogram Teak (SS Fittings) [PWD 12.18.2.1]	sqm	7,985.83	7,867.64	8,020.78	8,020.78
5.08.18.4	Chattogram Teak (Brass Fittings) [PWD 12.18.2.2]	sqm	9,156.47	9,039.31	9,191.42	9,191.42
5.08.18.5	Myanmar(Burma) Teak (SS Fittings) [PWD 12.18.3.1]	sqm	10,663.19	10,545.00	10,600.50	10,600.50
5.08.18.6	Myanmar(Burma) Teak (Brass Fittings) [PWD 12.18.3.2]	sqm	11,833.83	11,716.67	11,771.14	11,771.14

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.19	Supplying, fitting and fixing of well matured wooden louver shutter (Chattogram Teak) having 75.50 mm x 38 mm size all around frame and inner horizontal wooden louver blade 65 mm x 20 mm spaced @ 38 mm c/c, fitted and fixed with 2 nos hinges, 1 no handle and 2 nos magnetic catch. All complete in all floors and accepted by the Engineer-in-charge. [PWD 12.19]					
5.08.19.1	With SS Fittings [PWD 12.19.1]	sqm	17,090.92	16,784.64	17,313.94	17,313.94
5.08.19.2	With Brass Fittings [PWD 12.19.2]	sqm	17,388.97	17,082.69	17,612.00	17,612.00
5.08.20	Supplying, fitting and fixing hydraulic door closer (big size) of approved quality including all necessary tools and accessories etc. all complete and accepted by the Engineer-in-charge. [PWD 12.20]					
5.08.20.1	Standard Quality [PWD 12.20]	each	2,758.56	2,756.50	2,740.06	2,740.06
5.08.21	Supplying, fitting and fixing mortice door lock with lever handle of approved quality including all necessary tools and accessories etc. all complete approved and accepted by the Engineer-in-charge. [PWD 12.21]					
5.08.21.1	Standard Quality [PWD 12.21]	each	1,276.50	1,273.42	1,245.67	1,245.67
5.08.22	Supplying, fitting and fixing rim/round door lock of approved quality including all necessary tools and accessories etc. all complete and accepted by the Engineer-in-charge. [PWD 12.22]					
5.08.22.1	Standard Quality [PWD 12.22]	each	1,087.39	1,084.31	1,056.56	1,056.56
5.08.23	Supplying, fitting and fixing best quality heavy type 19 mm dia and 300 mm long hasp bolt including cutting grooves in door shutter and frames, screws etc. all complete approved and accepted by the Engineer-in-charge. [PWD 12.23]					
5.08.23.1	SS Hasp Bolt [PWD 12.23.1]	each	353.56	353.56	346.36	346.36
5.08.23.2	Brass Hasp Bolt [PWD 12.23.2]	each	567.33	567.33	561.17	561.17
5.08.24	Supplying, fitting and fixing of best quality magnetic door holder of approved quality including all necessary tools and accessories all complete and accepted by the Engineer-in-charge. [PWD 12.24]					
5.08.24.1	Standard Quality [PWD 12.24]	each	384.39	383.36	372.06	372.06
5.08.25	Supplying, fitting and fixing approved best quality foreign made stainless steel/brass door viewer/eye viewer from 12 mm to 20 mm diameter with adjustable thickness suitable for fitting from 37 mm to 50 mm thick door shutter in/c all necessary work as per direction and accepted by the Engineer-in-charge. [PWD 12.25]	each	631.06	627.97	605.36	605.36
5.08.27	Supplying, fitting and fixing of the best quality any sizes uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 1.7 mm-2.2 mm, shutter/panel thickness 37.5 mm & weighing 17.25 kg/m2 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards and ASTM, BS/ISO/IS standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet 6 Nos., G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 6 Nos. GI clamp, 2 nos. outer GI joint clamp making necessary grooves and mending good the damages, finishing, curing, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-in-charge.[PWD 22.12]	sqm	3,878.83	3,878.83	3,878.83	3,878.83

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.28	Supplying, fitting and fixing of the best quality any size uPVC plastic door shutter with frame having specific gravity of 1.35 - 1.45, panel wall thickness 2.4 mm-2.76 mm, shutter/panel thickness 37.5 mm & weighing 27.00 kg/m2 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards and cosmic /Foam /aristocrat or equivalent standards of different sizes uPVC plastic door shutter with uPVC plastic frame (frame size:150mm x 62.50mm) fitting - fixing in brick wall/ R.C.C wall with at least 3 Nos. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 24 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet ,6 Nos. GI clamp, 6 Nos. G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, including making necessary grooves and mending good the damages, finishing, curing, local carriage etc . complete in all respect and accepted by the Engineer-in-charge.[PWD 22.13]	sqm	7,057.75	7,042.33	6,979.64	6,979.64
5.08.29	Supplying, fitting & fixing of uPVC plastic or glass partition in plastic frame fabricated by 70 mm x 50 mm x 2 mm T and 50 mm x 40 mm x 2 mm / 50 mm x 30 mm x 2 mm L-sections, providing partition with 156 mm x 25 mm uPVC hollow section having wall thickness of 2.5 mm / partition with 5 mm thick glass. physical, chemical, thermal, fire resistivity properties etc of the materials as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards, fitted and fixed in brick wall or R.C.C wall with 6 nos. GI clamps, 4 nos. inner joint GI clamps, 2 nos. outer GI joint clamps, 16 nos. rivets, making necessary grooves and mending good the damages, finishing, curing, carriage etc complete in all respect and accepted by the Engineer-in-charge.[PWD 22.14]					
5.08.29.1	With partition of uPVC hollow section [PWD 22.14.1]	sqm	2,870.58	2,863.39	2,818.17	2,818.17
5.08.29.2	With 5 mm glass [PWD 22.14.2]	sqm	2,738.00	2,733.89	2,703.06	2,703.06
5.08.30	Supplying, fitting & fixing of uPVC Profile for door, window and fixed partition frames applications having specific gravity of 1.36-1.43, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards including all accessories, fittings with 6 nos. steel clamps complete in all respect as per drawing and accepted by the Engineer-in-charge.[PWD 22.15]	m	635.17	650.58	634.14	634.14
5.08.31	Supplying, fitting & fixing of swing door shutter made of low density free foam (LDFF) sheet having standard size 1200 mm x 3200 mm. Physical properties: density: 0.55-0.68 g/cm3, weighing 1.3 kg/sft, providing new sash (100 mm), sliding glass bead, rubber, screws, 75 mm hinges 4 Nos., 100 mm tower bolt 2 Nos., 150 mm handle 2 nos. etc. including all accessories complete in all respect as per drawing and accepted by the Engineer-in-charge.[PWD 22.16]					
5.08.31.1	1950 mm x 750 mm size 8 mm thick uPVC swing door shutter [PWD 22.16.1]	each	11,406.28	11,573.81	11,340.50	11,340.50
5.08.31.2	2100 mm x 750 mm size 8 mm thick uPVC swing door shutter [PWD 22.16.2]	each	11,725.92	11,905.78	11,672.47	11,672.47
5.08.31.3	2100 mm x 900 mm size 8 mm thick uPVC swing door shutter [PWD 22.16.3]	each	12,439.19	12,629.33	12,367.25	12,367.25
5.08.32	Supplying, fitting & fixing of plastic wall paneling with 3 mm sheet, weighing 0.188 kg/sft, fitting and mending good the damages, carriage to the site including glass bead, partition frame, rubber, 5 mm clear glass fitted and fixed with screws, steel clamp etc all complete and accepted by the Engineer-in-charge.[PWD 22.17]	sqm	1,396.75	1,390.58	1,345.36	1,345.36
5.08.33	Supplying, fitting & fixing of uPVC profile fixed partition with 5 mm clear glass, weighing 1.032 kg/sft, fitting and mending good the damages, carriage etc. complete in all respect and accepted by the Engineer-in-charge.[PWD 22.18]	sqm	3,856.22	3,897.33	3,818.19	3,818.19

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.08.34	Manufacturing supplying, fitting and fixing of single leaf louver door shutter made with 16 gauge thick 50 mm x 50 mm SS hollow box as outer frame, 16 gauge thick 50 mm x 38 mm SS hollow box as pannel frame and 18 gauge thick 50 mm x 12 mm SS hollow box as louver with 150 mm long 12 mm dia SS handle, 300 mm long 20 mm dia ss hasp bolt, 100 mm hings etc, comple in all respect and accepted by the Engineering-in charge.[PWD 22.23]	sqm	25,319.31	25,302.86	25,148.69	25,148.69
5.08.35	Supplying, fitting & fixing of uPVC profile sliding window having gross weight of 14.00 kg/sqm (including 5 mm glass) fitting and mending good the damages, carries etc complete in all respect accepted by the Engineer-in-charge.[PWD 22.19]					
5.08.35.1	uPVC sliding window with 5 mm glass (1200 mm x 1200 mm size) [PWD 22.19.1]	sqm	5,838.81	5,863.47	5,756.58	5,756.58
5.08.35.2	uPVC sliding window without glass (1200 mm x 1200 mm size) [PWD 22.19.2]	sqm	4,935.39	4,960.06	4,853.17	4,853.17
5.08.36	Supplying, making, fitting & fixing of R.C.C. door/window frame of 155 mm x 65 mm which is made by using M.S. rod (fy = 400 MPa) fabrication work with 24 BWG G.I. wire, steel formworks with minimum cement concrete relates mix ratio (1:2:4) having minimum f'cr = 27 MPa & satisfying a specified compressive strength, f'c= 22 MPa at 28 days and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ ASTM-C 150 type–1, best quality 50% quantity of local sand (F.M. 1.2) and 50% quantity of coarse sand (F.M. 2.2), 6 mm down well graded stone chips, screening, making, placing in position, making shutter/formworks water-tight properly, jute hassian, polythene sheet, placing of 100 mm long welded iron hinges with 6 mm dia M.S. rod clamp in position and mixing with mixer machine, casting in forms, compacting properly and curing at least for 21 days, removing shuttering and demoulding etc. all complete including the cost of water, electricity and other charges as per design, drawing and accepted by the Engineer-in-charge. (Considering cross section of the frame 153 mm x 64 mm). [PWD 22.25]	m	551.92	548.83	532.39	532.39
5.08.37	Supply & installation of fire rated door complete & accepted by the Engineer-in-charge with the following specification: Standard(s) for safety : UL Certified, NFPA 80 standard, ANSI / UL 10C: Positive pressure of fire tests of door assemblies. ANSI / UL 10B: Fire tests of door assemblies. UL Subject 63: Outline of investigation for fire frames. Shutter materials: Mild steel. Fire resistivity (Door & frame): Two hours. Fire resistivity (accessories): Three hours (panic bar, pul handle, ceramic fibre tape for sealing smoke, hinge, bolt and screw, mortice lock, door closer, Door frame: 2 vertical fire resisting jamb and 1 fire resisting horizontal jamb made with single rabbet hollow steel chanel frame made of 2.3 mm imported cold rolled mild steel sheet. Four SS hinges (size: 112 mm x 100 mm x 3.4mm) are used on each leaf screwd with frame, Door leaf: Door leaf faces consists of 1.6 mm thick imported cold rolled MS sheet attached together using interlocking mechanism and tack welding which is filled with imported 100kg/m3 rock wool cake. Stiffeners should be used inside to strengthen structure. Vision Panel: Made of UL certified 5 mm glass. It has clear vision area of 150 mm x 100 mm. Its frame is mae of 1.6 mm imported cold rolled MS sheet and SS pop rivet used for fixing. Ceramic fibre tape is used for sealing smoke. Internal insulation: Rock wool. Surface treatment: All MS sheets are chemically treated coated with zinc phosphate before assembly in highly equipped chemical treatment plant. All chemicals are imported. Paint Finish: Epoxy powder coated paint finish and curing in temperature controlled gas oven. [PWD 22.26]	sqm	50,421.75	50,421.75	50,421.75	50,421.75

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section 09 : Ci Sheet Roofing And Fiber Glass Sheet Roofing Works						
5.09.01.01	Supply and fixing of galvanized anchor bolts of variable dia for rigid frame conforming to ASTM F1554 Grade 55, Galvanized to A153, Class C or equivalent with minimum yield strength of 380 MPa, manual of steel construction by American Institute of Steel Construction (AISC) etc. including the cost of washer & bolts, material testing etc. all complete as per drawing, specification and direction of the Engineer-in-charge. (PWD 10.1)	kg	197.33	197.33	197.33	197.33
5.09.01.02	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings, struts etc. (up to level-4) from steel plates conforming to ASTM A572, with a minimum yield strength of 345 MPa, including the cost of testing of plates, applicaton of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.2)	kg	140.81	140.81	140.81	140.81
5.09.01.03	Supply, fabrication and installation of built-up sections i.e. columns, beams, rafters, bracings, struts etc (up to level-4) from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.3)	kg	137.72	137.72	137.72	137.72
5.09.01.04	Supply, fabrication and installation of hot-rolled sections (W, H, I-shape etc.) for columns, beams, rafters, bracings etc. (up to level-4) conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.4)	kg	134.64	134.64	134.64	134.64
5.09.01.05	Supply, fabrication and installation of hot rolled structural grade steel pipe and tube of any thickness conforming to ASTM A283 with a minimum yield strength of 275 MPa, including the cost of testing, application of red/grey-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.5)	kg	205.56	205.56	205.56	205.56
5.09.01.06	Supply, fabrication and installation of hot rolled structural grade steel channel and angle in roof truss or any form of structure of any thickness conforming to ASTM A36 with a minimum yield strength of 250 MPa, including the cost of testing, application of red/grey-oxide primer etc. (up to level-4) all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.6)	kg	132.58	132.58	132.58	132.58
5.09.01.07	Supply and fabrication of built-up sections for shore piles from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge (Salvage materials shall be the contractors property after completion of the work, rate is excluding the cost of driving and taking out). (PWD 10.7)	kg	69.89	69.89	69.89	69.89
5.09.01.08	Supply and fabrication of hot rolled structural grade steel Sections of any thickness conforming to ASTM A36 with a minimum yield strength of 250 MPa for shore piling , including the cost of testing , application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge(Salvage materials shall be the contractors property after completion of work, rate is excluding the cost of driving and taking out). (PWD 10.8)	kg	54.47	54.47	54.47	54.47
5.09.01.09	Supply ,fabrication, installation and de-installation of built-up sections for shore pile bracing at any level basement work from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge(Salvage materials shall be the contractors property after completion of work). (PWD 10.9)	kg	90.44	90.44	90.44	90.44

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1	2	3	4	5	6	7
5.09.01.10	Supply ,fabrication, installation and de-installation of built-up sections for shore pile bracing at any level basement work from steel plates conforming to ASTM A572, with a minimum yield strength of 345 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge(Salvage materials shall be the contractors property after completion of work). (PWD 10.10)	kg	91.47	91.47	91.47	91.47
5.09.01.11	Supply and fixing of connection bolts of variable diameter with nut and washer according to "ASTM A325 Type 1 or equivalent" with Fu =720 Mpa, including the cost of testing of bolts, all complete as per drawing, specification and direction of Engineer-In-Charge. (PWD 10.11)	kg	371.03	371.03	371.03	371.03
5.09.01.12	Supply and fixing of connection bolts of variable diameter with nut and washer according to "ASTM A307 Type A or equivalent" with Fu =414 Mpa, including the cost of testing of bolts, all complete as per drawing, specification and direction of Engineer-In-Charge. (PWD 10.12)	kg	333.00	333.00	333.00	333.00
5.09.01.13	Supply and installation of GI purlin & girt of any size (up to level-4) conforming to "ASTM A653" grade 45, with a minimum yield strength of 310 MPa, including the cost of testing of materials, all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.13)	kg	168.56	167.53	168.56	168.56
5.09.01.14	Supply and fixing of sag rod (up to level-4) conforming to grade 40, with a minimum yield strength of 275 MPa, including the cost of making threads, nuts and washers, red oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.14)	kg	162.39	162.39	162.39	162.39
5.09.01.15	Supply and fixing of cable/wire bracing conforming to "ASTM A475" with a minimum yield strength of 1193 MPa, with I-bolt and hill side washer, all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.15)	m	229.19	229.19	229.19	229.19
5.09.01.16	Supplying and fixing of shear stud of variable dia conforming to ASTM A108 or equivalent with minimum yield strength of 275 MPa, including the cost testing, welding etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.16)	kg	173.69	173.69	173.69	173.69
5.09.01.17	Supply and installation of 0.70 mm thick galvanized decking panel according to ASTM A653, with minimum yield strength of 345 MPa, including all necessry accessories (sheeting screws with washers, sealants etc.), testing of materials etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.17)	kg	191.17	191.17	191.17	191.17
5.09.01.18	Supply, fabrication and installation of 6 mm thick Chequer Plate conforming to ASTM A572, with minimum yield strength of 345 MPa (up to level-4), including all necessry accessories ,testing of materials etc. all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.18)	kg	201.44	201.44	201.44	201.44
5.09.01.19	Supply and installation of 0.47 mm thick zinc alum color coated profile sheet from local source/China with minimum waranty period of 5 years after installation for roof, wall, caping, flashing, trimming, gutter etc. (up to level-4) conforming to ASTM A792, Grade: 80, AZ150 gm/m2, including the cost of necessary accessories (sheeting screws with washers, silicon sealant etc.), testing of materials etc. all complete as per drawing specification and direction of Engineer-in-charge. (PWD 10.19)	kg	205.56	205.56	205.56	205.56

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1	2	3	4	5	6	7
5.09.01.20	Supply and installation of 0.47 mm thick zinc alum color coated profile sheet of durability class 2 with minimum warranty period of 10 years of durability, for roof, wall, caping, flashing, trimming, gutter etc. conforming to ASTM A792, Grade: 80, AZ150 gm/m2, including the cost of necessary accessories (sheeting screws with washers, silicon sealant etc.), testing of materials etc. all complete as per drawing specification and direction of Engineer-in-charge (supplier has to produce papers to proof the source of material). (PWD 10.20)	kg	330.94	330.94	330.94	330.94
5.09.01.21	Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 – 72 rft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge. (PWD 10.21)	sqm	594.06	593.03	584.81	584.81
5.09.01.22	0.27 mm thick galvanized iron plain sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer-in-charge. (PWD 10.22)					
5.09.01.22.1	Galvanized (PWD 10.22.1)	m	485.11	484.08	471.75	471.75
5.09.01.22.2	Colored (PWD 10.22.2)	m	537.53	536.50	524.17	524.17
5.09.01.23	Supply and installation of 2.0 mm thick fiber glass sheet (transparent sheet) for roof, wall etc. on M.S. purlin, angle etc. with 'J' hook or screws with washer and putty, all complete as per drawing, specification and direction of Engineer-in-charge (up to level-4). (PWD 10.23)	sqm	1,476.92	1,475.89	1,467.67	1,467.67
5.09.01.24	1.5 mm thick plain fiberglass sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete and accepted by the Engineer-in-charge. (PWD 10.24)	m	899.31	898.28	885.94	885.94
5.09.01.25	Supply and installation of double bubble foil insulation at wall and roof of nominal thickness of 8 mm conforming to Class A in accordance with the ASTM-E84-09 fire test standard, including the cost of lapping, costape, adhesive and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.25)	sqm	257.97	257.97	257.97	257.97
5.09.01.26	Premium Synthetic Enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer(Berger robbialac supergloss synthetic enamel/Elite lucky seven/ Asian apcolipe premium paint or equivalent brand) in a sealed container, having highly water resistant, high bondibilty, flexiblity property; using specified brand thinner applying to metallic surface by spray in two coats over single coat anti-corrosive coating including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors accepted by the Engineer-in-charge. (payment shall be made on strucutral steel weight basis) (PWD 10.26)	kg	9.25	9.25	9.25	9.25
5.09.01.27	Supply and application of Epoxy based corrosion protection paint to the surface of the structural steel members conforming to SA 2.5; the corrosion class shall be -C3 in accordance with BS EN ISO 12944-2 and durability class in accordance with BS EN ISO 12944-5; the Steel members to be shot blasted inside the enclosed shot blasting chamber, final coat paint must be applied on site after installation, including the cost of primer, testing and necessaey accessories, all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.27)	kg	26.72	26.72	26.72	26.72
5.09.01.28	Supply and pouring of non-shrink grout to steel column bases conforming to ASTM C 109 having compressive strength not less than 45 MPa, including the cost of shutter and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge. (PWD 10.28)	cum	151,667.11	151,667.11	151,667.11	151,667.11

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1	2	3	4	5	6	7
5.09.01.29	Saftey Canopy: Supplying temporary safety canopy around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of truss system of steel sections (main frame) at 1800 mm c/c with purlins @ 750 mm c/c, making flooring system by corrugated galvanized iron sheets of thickness 0.45 mm, laying wire mesh net on iron sheets, providing continuous gutter along the edges of the building with downpipe @ 6000 mm c/c, including fitting and fixing in position providing necessary anchors, cables, wires, ties etc. by standard anchoring and welding, nut-bolts etc, all complete and accepted by the Engineer-in-charge (PWD 10.29)	sqm	2,496.47	2,492.36	2,473.86	2,473.86
5.09.01.30	Safety net with G.I Wire: Supply, fabrication, installation and taking out temporary horizontal safety net around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of Chain link net with 24 BWG wire fitted at 15'-0" height horizontally of the outer periphery of the building with 75mmx40mmx5mm MS Chanel post and purlin,20mm MS Rod and 40mmx40mmx6mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc, all complete and accepted by the Engineer-in-charge(Salvage materials shall be the contractors property after completion of work.) (PWD 10.30)	sqm	1,597.17	1,583.81	1,563.25	1,563.25
5.09.01.31	Safety shed over drive way : Supply, fabrication, installation and taking out temporary horizontal safety shed over the drive way around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of 0.27 mm thick galvanized iron plain sheet fitted at 15'-0" height horizontally over the drive way or path way at the outer periphery of the building with 75mm x 40mm x 5 mm M.S Chanel post and purlin,20mm MS Rod and 40mmx40mmx6mm MS Angle as ties etc. by standard anchoring and welding, nut-bolts etc, all complete and accepted by the Engineer-in-charge(Salvage materials shall be the contractors property after completion of work.) (PWD 10.31)	sqm	1,723.58	1,716.39	1,687.61	1,687.61
5.09.01.32	Scaffolding for outside netting of building: Supplying, fitting & fixing scaffolding for outside netting of building with single layer 38 mm dia MS pipe connected each other with minimum 4'-0" centre to centre both direction with 38 mm dia swivel clamp,including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of netting) (PWD 10.32)	sqm	357.67	357.67	357.67	357.67
5.09.01.33	Saftey net: Supplying temporary safety net (hessian cloth) around construction work place (along the height of the building) where public safety is likely to be endangered due to construction activities; which shall be supported using scaffolding around the building for brick work/ plaster; including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of scaffolding) (PWD 10.33)	sqm	52.42	52.42	51.39	51.39
5.09.01.34	Supply, fabrication, installation and taking out of 1.2 m hight temprary safety fencing at diffrent floor during construction work around the outer periphery of building or around the punch in the floor slab for safety of the worker during construction, which shall be made of 10mm dia MS Rod @ 450mm C/C both way welded at each point togather with a 12mm Dia MS Rod as top rail drilled anchored to the floor and sides as necessary all complete and accepted by the Engineer-in-charge(Salvage materials shall be the contractors property after completion of work.). (PWD 10.34)	sqm	437.83	437.83	437.83	437.83
5.09.01.35	Providing bearing joints fixed or free with 250 mm x 375 mm x 10 mm M.S. (Grade - A36) plate fitted in the truss angles with 16 mm diameter M.S. rod counter sunk rivets, welded and anchored to 250 x 375 x 10 mm. M.S. plate by two Nos. 19 mm dia M.S. “U” rod embedded in the bed of the lintel around the reinforcement, cleaning and greasing the joints for all floors etc. all complete and accepted by the Engineer-in-charge (PWD 10.35)	each	3,139.86	3,132.67	3,100.81	3,100.81

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1	2	3	4	5	6	7
5.09.01.36	Galvanization: Galvanization of finished structural steel built-up and hot rolled finished materials of any shape and size (average thickness not more than 8 mm) conforming to the requirement of the corrosion class C3 and Galvanization shall be performed in accordance with ASTM A123 all complete as per drawing, specification and direction of engineer in charge (PWD 10.36)	kg	72.97	72.97	72.97	72.97
5.09.01.37	Additional Erection and installation charge for items 10.2~10.6 and 10.18 shall be 2% of the gross item rate for every four floor above level-4 (PWD 10.37)					
Section 10 : Window Grill, Verandah Grill & Netting						
5.10.01	Supplying, fitting and fixing window grills made of 16 mm dia M.S. rod @ 100 mm c/c fitted with 3 (three) nos. horizontal M.S. flat bar (38 mm x 6 mm) including fabrication, welding, riveting, cost of electricity, workshop charges, carriage, fixing with clamps in wall/RCC member for all floors, finished with anti-corrosive painting (Red-Oxide) etc. complete and accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.1]	sqm	2,957.94	2,954.86	2,936.36	2,936.36
5.10.02	Supplying, fitting and fixing window grills of any design made of 20 mm x 3 mm mild steel section @ 100 mm c/c with outer frame of 25 mm x 6 mm F.I. bar including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc complete for all floors and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 10.00 kg. and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.2]	sqm	2,013.42	2,011.36	1,985.67	1,985.67
5.10.03.1	Supplying, fitting and fixing window grills of any design made with 20 mm x 5 mm F.I. bar @ 100 mm c/c as inner and outer section; including fabricating, welding, cost of electricity and tools and plants, finished with anti-corrosive painting (Red-Oxide), carriage, cutting grooves, mending good the damages etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 11 kg. and add or deduct. @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.3.1]	sqm	2,132.64	2,129.56	2,104.89	2,104.89
5.10.03.2	Supplying, fitting and fixing window grills of any design made with 20 mm x 5 mm F.I. bar @ 100 mm c/c as inner members but no outer frame;including fabrication, welding, cost of electricity, workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 9 kg and add or deduct. @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.3.2]	sqm	1,955.86	1,952.78	1,927.08	1,927.08
5.10.04.1	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar @ 100 mm c/c as both outer and inner section;including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx. 19 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.4.1]	sqm	2,875.72	2,873.67	2,847.97	2,847.97
5.10.04.2	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar @ 100 mm c/c as inner section but no outer frame; including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx 16 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.4.2]	sqm	2,561.22	2,558.14	2,532.44	2,532.44

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1	2	3	4	5	6	7
5.10.04.3	Supplying, fitting, fixing window grills of any design made with 25 mm x 6 mm F.I. bar as outer frame and 20 mm x 5 mm F.I. inner member @ 100 mm c/c; including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx 12 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.4.3]	sqm	2,270.36	2,268.31	2,242.61	2,242.61
5.10.05.1	Supplying, fitting and fixing window grill made of 10 mm x 10 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.5.1]	sqm	2,757.53	2,753.42	2,722.58	2,722.58
5.10.05.2	Supplying, fitting and fixing window grill made of 12 mm x 12 mm M.S. solid bar @ 100mm c/c with outer frame of 38 mm x 6mm F.I. bar and 25 mm x 6 mm F.I. bar for clamp as per design including fabrication, welding, cost of electricity workshop charges, labour charges for fitting and fixing grills in position, local carriage charges, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors approved and accepted by the Engineer-in-charge. (Total weight per sqm should be approx 19 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.5.2]	sqm	2,903.47	2,900.39	2,869.56	2,869.56
5.10.05.3	Supply, fitting & fixing window grills made of 10 mm x 10 mm M.S. solid bar @ 100 mm c/c with 25 x 6 mm F.I. Bar for Clamp and no outer frame;including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx 14 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.5.3]	sqm	2,333.06	2,331.00	2,309.42	2,309.42
5.10.05.4	Supply, fitting & fixing window grills made of 12 mm x 12 mm M.S. solid bar @100 mm c/c as inner members but no outer frame, with 25 x 6 mm F.I. Bar for Clamp;including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, finished with anti-corrosive painting (Red-Oxide) etc. all complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be approx 15 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.5.4]	sqm	2,466.67	2,464.61	2,444.06	2,444.06
5.10.05.5	Supply, fitting & fixing window grills made of 12 mm x 12 mm stainless steel (SS) bar with wall thickness 1.5 mm @ 100 mm c/c as inner frame but no outer frame; including fabrication, welding, cost of electricity workshop charges, carriage, cutting grooves, mending good the damages, tools and plants, clamps and other necessary accesories for fitting, fixings grills in position, polishing etc. complete for all floors accepted by the Engineer-in-charge. [PWD 13.5.5]	sqm	3,454.36	3,452.31	3,431.75	3,431.75

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1	2	3	4	5	6	7
5.10.06	Supplying, fitting and fixing veranda grill made of 10 mm dia M.S. rod provided @ 100 mm c/c in any position both ways as per design with outside frame 25 mm x 25 mm x 6 mm M.S. angle including fabricating, welding in each point, painting a coat of anti-corrosive painting (Red-Oxide), including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:1.5:3) etc. complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be aprox. 17 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.6]	sqm	2,747.25	2,745.19	2,726.69	2,726.69
5.10.07	Supplying, fitting and fixing verandah grill made of 10 mm dia M.S. rod provided @ 75 mm c/c in any position both ways as per design with outside frame of 25 mm x 25 mm x 6 mm M.S. angle and F.I. bar clamps including fabricating, welding in each point , painting a coat of anti-corrosive painting (Red-Oxide), including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:1.5:3) etc, all complete for all floors accepted by the Engineer-in-charge. (Total weight per sqm should be aprox. 21 kg and add or deduct @ Tk. 100.00 for each kg/sqm excess or less respectively) [PWD 13.7]	sqm	3,136.78	3,134.72	3,115.19	3,115.19
5.10.08	Supplying, fitting and fixing MS verandah grill as per design and shape with 75 mm x 50 mm MS box with 3 mm wall thickness middle rail (horizontal), one pair 50 mm x 25 mm MS hollow box with 3 mm wall thickness @ 750 mm c/c vertical and 12 mm x 12 mm MS solid bar @ 75 mm c/c horizontal and providing approx. 750 mm x 750 mm imergency exit with proper locking arrangement (if necessary) as per required measurement including cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. complete as per drawing and design and accepted by the Engineer. [PWD 13.8]	sqm	4,867.56	4,865.50	4,844.94	4,844.94
5.10.09	Supplying, fitting and fixing MS verandah grill as per design and shape with 75 mm x 50 mm MS box with 3mm wall thickness middle rail (horizontal), 50 mm x 25 mm vertical rail with 3mm wall thickness @ approx. 750 mm c/c , 25x25 mm MS box with 2 mm wall thickness horizontally @100mm c/c as per required measurement including cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. complete as per drawing and design and accepted by the Engineer. [PWD 13.9]	sqm	4,754.50	4,752.44	4,734.97	4,734.97
5.10.10	Supplying, fitting, fixing Jail patern M.S window grill made of 25 mm dia M.S Plain Rod @ 75 mm C/C fitted and fixed with M.S Angle frame 65 mm x 65 mm x 6 mm size placed 5 Nos. Horizontally and 2 Nos. Vertically including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 10 Nos. including making holes in RCC Cloumn/Brick wall, fixing the clamps and mending good the damages with C.C (1:1.5:3), i finished with anti-corrosive paint (Red-Oxide painting) etc. all complete as per direction by Engineer-in-Charge. [PWD 13.10]	sqm	9,898.53	9,892.36	9,846.11	9,846.11
5.10.11	Supplying, fitting, fixing Jail patern M.S Verandah grill made of 20 mm dia M.S Plain Rod @ 100 mm C/C fitted and fixed with M.S Angle frame 50 mm x 50 mm x 6 mm size placed 5 Nos. Horizontally and 2 Nos. Vertically including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 10 Nos. including making holes in RCC Cloumn/Brick wall fixing the clamps and mending good the damaged with C.C (1:1.5:3), finished with anti-corrosive paint (Red-Oxide painting) etc. all complete as per direction by Engineer-in-Charge. [PWD 13.11]	sqm	6,034.08	6,031.00	6,007.36	6,008.39

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.10.12	Supplying, Fitting, Fixing Jail patern M.S grill door made of 25mm dia M.S Plain Rod @ 75 mm C/C fitted and fixed with M.S Angle frame 65 mm x 65 mm x 6 mm size 7 Nos. placed Horizontally and 2 Nos. Vertically providing 25 mm dia M.S rod of 1200 mm long and 38 thick M.S plate up to a size of 1'-6"x1'-0" for locking arrangement, 38 mm dia G.I pipe of 1'-0" long for locking) including fabricating, welding, drilling, cutting and riveting the F.I bar and M.S angle clamp 8 Nos. including making holes in wall fixing the clamps and mending good the damaged with C.C (1:1.5:3) including anticorrosive paint etc. all complete as per direction by the Engineer-in-Charge. [PWD 13.12]	sqm	13,093.89	13,086.69	13,030.17	13,030.17
5.10.13	Supplying, Fitting, Fixing Steel window shutter with frames top portion ventilation (2'-6") and bottom portion (3'-8") outer frame of the window made with 38mm x 38mm x 6mm M.S Angle and middle vertical member of frame made with 38mm x 38mm x 6mm M.S- T and shutter frame made of M.S Angle of same section, ventilation portion paired with 1.5 mm thick M.S sheet fixed @ 38mm C/C (20 Nos.) and bottom 3'-8" panel portion divided into 3 equal panes with 1.50 mm thick M.S sheet,including fabricating, welding, reveting, provided with necessary fittings like 12mm dia 150mm long socket bolt, 300mm long 25mm x 6mm size F.I bar adjustable cleats, 125mm long 50mm x 50mm x 6mm size M.S angle handle , 300mm long M.S angle clamp (8 Nos. hinge) including making holes in wall for fixing the clamps and mending good the damages with C.C (1:1.5:3) and a cot of anticorrosive paint etc. all complete as per direction by the Engineer-in-Charge. [PWD 13.13]	sqm	9,625.14	9,608.69	9,543.94	9,543.94
5.10.14	Supplying, fitting and fixing of steel iron rack made of 50 mm x 50 mm x 6.35 mm vertical and horizontal angle post, welding 63.5 mm x 6.35 mm F.I. bar placed horizontally as bracing for the posts, 38 mm x 6.35 mm cross F.I. bars welded with vertical post, 7.81 mm thick M.S plate welded as cup shape at the bottom of post, supplying and fitting rivets, charge for welding, drilling, carrying, cutting, straightening in required sizes etc complete in all respect as per drawing, design and accepted by the Engineer-in-charge.[PWD 22.11]	sqm	11,559.42	11,379.56	11,109.25	11,109.25
Section 11: Aluminium Door, Window Frame & Glass Works						
5.11.01	Supplying fitting and fixing of aluminium swing door with spandrel as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60 mm, 44.45 mm), 2.0 mm mm thick shutter side (size 54 mm, 46 mm), 0.99 mm thick door glass bit (size 16.54 mm, 15.49 mm, 0.115 kg/m), 1.8 mm thick clousure section (size 101.60 mm, 42.93 mm),1.5 mm thick 106.60 mm clousure cover (0.392 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 82.6 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) and 2.3 mm to 4.01 mm thick handle (size 101.60 mm, 38.10 mm, 25.40 mm short, 1.35 kg/m), 1.5 mm thick 31.75 mm shutter divider(0.535 kg/m), 1.5 mm thick 7.14 mm spandrel section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like swing door clousure, swing door lock, swing door mohiar, labour charge, fabrication, fitting fixing in position, carriage and electricity charge keeping provision for fitting 5/6 mm thick glass including neoprene sealant etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.1]						
5.11.01.1	Anodized to bronze colour [PWD 14.1.1]	sqm	8,530.56	8,519.25	8,456.56	8,456.56
5.11.01.2	Powder coated to any colour [PWD 14.1.2]	sqm	9,413.42	9,403.14	9,340.44	9,340.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.02	Supplying fitting and fixing of aluminium swing door as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60 mm, 44.45 mm, 83.21 mm), 2.0 mm thick shutter side (size 54 mm, 46 mm), 0.99 mm thick door glass bit (size 16.54 mm, 15.49 mm, 0.115 kg/m), 1.8 mm thick clousure section (size 101.60 mm, 42.93 mm),1.5 mm thick 106.60 mm clousure cover (0.392 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 82.6 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) and 2.3 mm to 4.01 mm thick handle (size 101.60 mm, 38.10 mm, 25.40 mm short, 1.35 kg/m) section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like swing door clousure, swing door lock, swing door mohiar, labour charge, fabrication, fitting fixing in position, carriage and electricity charge keeping provision for fitting 5 mm thick glass including neoprene sealant etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.2]					
5.11.02.1	Anodized to any colour [PWD 14.2.1]	sqm	7,798.78	7,790.56	7,736.08	7,736.08
5.11.02.2	Powder coated to any colour [PWD 14.2.2]	sqm	8,503.83	8,495.61	8,441.14	8,441.14
5.11.03	Supplying, fitting and fixing of aluminium composite swing doors with fixed partition as per the U. S. Architectural Aluminium Manufacturer' s Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick wall frame (size 101.60, 44.45 mm, 0.86 kg/m), 1.8 mm thick shutter side (size 54 mm, 46 mm, 1.2 kg/m), 0.99 mm thick door glass bit (size 16.54 mm, 14. 49 mm, 0.115 kg/m), 1.8 mm thick closure section (size 101.54 mm, 42.93 mm, 1.20 kg/m), 1.5 thick closure cover (101.60 mm, 0.45 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 86.60 mm, 43.99 mm , 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) 2.3mm to 4.01mm thick handle (short) (size 101.60 mm, 38.10 mm, 25.40 mm, 1.35 kg/m), minimum 1.2 mm thick top and side (size 101.60 mm, 44.45 mm, 0.934 kg/m), minimum 1.2 mm thick bottom (size 101.35 mm, 44.45 mm, 0.734 kg/m), minimum 1.2 mm thick bottom cover (44.32 mm, 19.61mm, 0.333 kg/m), minimum 1.2 mm thick grouve cover (size 83.21 mm, 16.00 mm, 0.485 kg/m), 0.99 mm thick fixed glass protector (size 39.09 mm, 14.81 mm, 0.188 kg/m), 0.99 mm thick fixed glass protector bit (size 15.75 mm, 14.81 mm, 0.13 kg/m) section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. (Total weight min 69.699 kg) keeping provision for 5 mm of glass panes with cost including all accessories like swing door clouser, swing door lock , swing door mohair, flush bolt , bolts and nuts including sealants, labour charge for fitting , fixing by angles, screws, mohiar, washer, machinery, cost of fabrication, making the grooves, mending good the damages, electricity etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.3]					
5.11.03.1	Anodized to any colour [PWD 14.3.1]	sqm	4,019.64	4,014.50	3,983.67	3,983.67
5.11.03.2	Powder coated to any colour [PWD 14.3.2]	sqm	4,438.97	4,433.83	4,403.00	4,403.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.04	Supplying, fitting and fixing of aluminium sliding doors as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 17.79 mm, 0.47 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm, 0.705 kg/m) ,minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm shutter bottom (size 60 mm, 24 mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 75.50 mm, 19.90 mm, 0.52 kg/m),minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m) sections all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like handle, sliding door key lock , sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.Size up to: 2100 mm x 2100 mm [PWD 14.4]					
5.11.04.1	Anodized to any colour [PWD 14.4.1]	sqm	3,359.81	3,355.69	3,311.50	3,311.50
5.11.04.2	Powder coated to any colour [PWD 14.4.2]	sqm	3,899.39	3,894.25	3,850.06	3,850.06
5.11.05	Supplying, fitting and fixing of aluminium sliding doors with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 95 mm, 22.39 mm, 0.476 kg/m), minimum 1.2 mm thick outer top (size 95.00 mm, 28.50 mm, 0.749 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm shutter bottom (size 60 mm, 24.40mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 95.00 mm, 19.50 mm, 0.591kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm 0.562 kg/m), minimum 1.2 mm thick shutter divider (size 31.75 mm, 0.535 kg/m) sections all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like handle, sliding door key lock , sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.Size up to: 2100 mm x 2100 mm" [PWD 14.5]					
5.11.05.1	Anodized to any colour [PWD 14.5.1]	sqm	4,738.06	4,732.92	4,681.53	4,681.53
5.11.05.2	Powder coated to any colour [PWD 14.5.2]	sqm	5,585.97	5,581.86	5,529.44	5,529.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.06	Supplying, fitting and fixing of aluminium sliding doors with spandrel as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 17.79 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm, 0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60 mm, 24 mm, 0.589 kg/m), minimum 1.2 mm thick outer side(size 75.50 mm, 19.90 mm, 0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm, 0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm, 0.562 kg/m), minimum 1.2 mm thick shutter divider (size 31.75 mm, 0.535 kg/m) and minimum 1.5 mm thick spandrel (7.14 mm) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door whee , sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. Size up to: 1800 mm x 2100 mm [PWD 14.6]					
5.11.06.1	Anodized to any colour [PWD 14.6.1]	sqm	5,114.22	5,109.08	5,057.69	5,057.69
5.11.06.2	Powder coated to any colour [PWD 14.6.2]	sqm	5,955.97	5,950.83	5,899.44	5,899.44
5.11.07	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32mm,0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50 mm, 28.50 mm0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm.26.80 mm,0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm,0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm,19.90 mm,0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm,0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm,0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.7]					
5.11.07.1	Size up to: 1500 mm x 1400 mm. [PWD 14.7.1]					
5.11.07.1.1	Anodized to any colour [PWD 14.7.1.1]	sqm	3,919.94	3,912.75	3,868.56	3,868.56
5.11.07.1.2	Powder coated to any colour [PWD 14.7.1.2]	sqm	4,710.31	4,703.11	4,659.94	4,659.94
5.11.07.2	Size up to: 900 mm x 1400 mm [PWD 14.7.2]					
5.11.07.2.1	Anodized to any colour [PWD 14.7.2.1]	sqm	5,334.17	5,323.89	5,266.33	5,266.33
5.11.07.2.2	Powder coated to any colour [PWD 14.7.2.2]	sqm	6,704.19	6,694.94	6,637.39	6,637.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.08	Supplying, fitting and fixing of aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer' s Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (95.00 mm, 38.00 mm outer bottom,0.72 kg/m), minimum 1.2 mm thick outer top (95.00 mm, 28.5 mm outer top, 0.75 kg/m), minimum 1.2 mm thick shutter top (size 33 mm.26.80 mm,0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60mm, 24.40 mm,0.589 kg/m), minimum 1.2 mm thick outer side (95.00 mm, 19.50 mm outer side ,0.591 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm 25.80 mm,0.543 kg/m) and minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm,0.562 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.8]					
5.11.08.1	Size up to: 1524 mm x 1372 mm [PWD 14.8.1]					
5.11.08.1.1	Anodized to any colour [PWD 14.8.1.1]	sqm	5,261.19	5,255.03	5,208.78	5,208.78
5.11.08.1.2	Powder coated to any colour [PWD 14.8.1.2]	sqm	6,394.83	6,388.67	6,342.42	6,342.42
5.11.08.2	Size up to: 1280 mm x 1372 mm [PWD 14.8.2]					
5.11.08.2.1	Anodized to any colour [PWD 14.8.2.1]	sqm	5,989.89	5,982.69	5,926.17	5,926.17
5.11.08.2.2	Powder coated to any colour [PWD 14.8.2.2]	sqm	7,249.94	7,242.75	7,186.22	7,186.22
5.11.08.3	Size up to: 762 mm x 610 mm [PWD 14.8.3]					
5.11.08.3.1	Anodized to any colour [PWD 14.8.3.1]	sqm	12,442.28	12,415.56	12,261.39	12,261.39
5.11.08.3.2	Powder coated to any colour [PWD 14.8.3.2]	sqm	14,830.83	14,804.11	14,649.94	14,649.94
5.11.09	Supplying, fitting and fixing of equal diamension frame(EDF) section aluminium sliding window with mosquito mesh as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick outer bottom (size 91.50 mm, 38.00 mm), 1.5 mm thick outer top (size 91.00 mm, 28.70 mm), 1.5 mm thick shutter top (size 65.00 mm, 27.30 mm), 1.5 mm thick shutter bottom (size 72.20 mm, 24.65 mm), 1.5 mm thick outer side (size 91.50 mm, 28.50 mm), 1.5 mm thick shutter lock (size 65.30 mm, 26.00 mm), 1.5 mm thick shutter inter lock (size 55.20 mm, 26.00 mm), 1.5 mm thick mesh section (size 55.20 mm, 13.20 mm), all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting fiber mesh including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.9]					
5.11.09.1	Size up to: 1524 mm x 1372 mm [PWD 14.9.1]					
5.11.09.1.1	Anodized to any colour [PWD 14.9.1.1]	sqm	6,662.06	6,650.75	6,579.83	6,579.83
5.11.09.1.2	Powder coated to any colour [PWD 14.9.1.2]	sqm	6,954.97	6,948.81	6,901.53	6,901.53
5.11.09.2	Size up to: 1280 mm x 1372 mm [PWD 14.9.2]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.09.2.1	Anodized to any colour [PWD 14.9.2.1]	sqm	7,220.14	7,212.94	7,157.44	7,157.44
5.11.09.2.2	Powder coated to any colour [PWD 14.9.2.2]	sqm	7,918.00	7,910.81	7,854.28	7,854.28
5.11.09.3.1	Anodized to any colour [PWD 14.9.3.1]	sqm	14,702.36	14,675.64	14,521.47	14,521.47
5.11.09.3.2	Powder coated to any colour [PWD 14.9.3.2]	sqm	16,011.75	15,984.00	15,829.83	15,829.83
5.11.09.9.3	Size up to: 762 mm x 610 mm [PWD 14.9.3]					
5.11.10	Supplying, fitting and fixing of aluminium fixed composite window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick outer bottom (size 75.50 mm, 32 mm, 0.605 kg/m), minimum 1.2 mm thick outer top (size 75.50mm, 28.50 mm, 0.705 kg/m), minimum 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.42 kg/m), minimum 1.2 mm thick shutter bottom (size 60 mm, 24.40 mm, 0.589 kg/m), minimum 1.2 mm thick outer side (size 75.50 mm, 19.90 mm, 0.52 kg/m), minimum 1.2 mm thick shutter lock (size 49.20 mm, 25.80 mm,0.543 kg/m), minimum 1.2 mm thick inter lock (size 34.40 mm, 32.13 mm,0.562 kg/m), minimum 1.2 mm thick bottom cover (size 17.40 mm, 31.78 mm, 0.25 kg/m), minimum 1.2 mm thick fixed bottom (size 76.20 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick grouve cover (size 57.15 mm, 15.88 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side (size 76.20 mm, 38.10 mm, 0.769 kg/m) sections all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc.including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.Size up to: 1500 mm x 2100 mm. [PWD 14.10]					
5.11.10.1	Anodized to any colour [PWD 14.10.1]	sqm	4,199.50	4,195.39	4,155.31	4,155.31
5.11.10.2	Powder coated to any colour [PWD 14.10.2]	sqm	4,918.94	4,914.83	4,874.75	4,874.75
5.11.11	Supplying, fitting and fixing of aluminium top hung/casement windows as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 1.5 mm thick casement outer (size 38.86 mm, 36.36 mm, 0.395kg/m), 1.9 mm thick casement shutter (size 47.62 mm, 28.57 mm, 0.692 kg/m), and 1.245 mm thick shutter glass clip (size 15.87 mm, 27 mm, 0.188 kg/m) sections of all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 1.5 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc.including all accessories 4-bar hinge, casement handle, bolts and nuts keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.11]					
5.11.11.1	Anodized to any colour [PWD 14.11.1]	sqm	11,625.19	11,613.89	11,468.97	11,468.97
5.11.11.2	Powder coated to any colour [PWD 14.11.2]	sqm	11,844.11	11,832.81	11,703.31	11,703.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.12	Supplying fitting and fixing of aluminium corrugated curtain wall as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick bottom cover (size 17.40 mm 31.78 mm, 0.250 kg/m), minimum 1.2 mm thick fixed bottom (size 76.20 m 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick grouve cover(size 57.15 mm, 15.80 mm 0.362 kg/m), minimum 1.2 mm thick top and side (size 76.2 mm, 57.15 mm, 0.769 kg/m) and 1.5 mm thick spandrel (7.14 mm) sections of will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like rivet, screws fixed neoprene etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.12]					
5.11.12.1	Size up to: 3000 mm x 2100 mm [PWD 14.12.1]					
5.11.12.1.1	Anodized to any colour [PWD 14.12.1.1]	sqm	7,724.78	7,720.67	7,678.53	7,678.53
5.11.12.1.2	Powder coated to any colour [PWD 14.12.1.2	sqm	8,843.00	8,838.89	8,796.75	8,796.75
5.11.12.2	Size up to: 3000 mm x 750 mm [PWD 14.12.2]					
5.11.12.2.1	Anodized to any colour [PWD 14.12.2.1]	sqm	9,171.89	9,161.61	9,090.69	9,090.69
5.11.12.2.2	Powder coated to any colour [PWD 14.12.2.2]	sqm	10,486.42	10,476.14	10,405.22	10,405.22
5.11.13	Supplying fitting and fixing of aluminium fixed fan light as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick fixed bottom (size 76.2 mm, 38.10 mm, 0.640 kg/m), minimum 1.2 mm thick (17.40 mm, 31.78 mm bottom cover 0.250 kg/m) and minimum 1.2 mm thick grouve cover (size 57.15mm, 15.80 mm, 0.362 kg/m) and minimum 1.2 mm thick top and side section (76.20 mm, 16 mm, 38.10 mm, 0.769 kg/m) fixed with above mentioned frames and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nut and bolt etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.13]					
5.11.13.1	Anodized to any colour [PWD 14.13.1]	sqm	6,077.25	6,050.53	5,910.75	5,910.75
5.11.13.2	Powder coated to any colour [PWD 14.13.2]	sqm	6,554.14	6,526.39	6,387.64	6,387.64
5.11.14	Supplying fitting and fixing of aluminium fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having minimum 1.2 mm thick wall frame (size 76.20 mm, 38.10 mm, 0.564 kg/m),1.5 mm thick louver (size 55.02 mm, 37.39 mm, 0.281 kg/m) and minimum 1.2 mm thick louver outer section (size 39.67 mm, 15.06 mm) and inner inclined aluminium louver section fixed with above mentioned frame and all aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.14]					
5.11.14.1	Anodized to any colour [PWD 14.14.1]	sqm	11,183.25	11,146.25	10,976.67	10,976.67
5.11.14.2	Powder coated to any colour [PWD 14.14.2]	sqm	12,641.67	12,605.69	12,436.11	12,436.11

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.15	Supplying, fitting, fixing of aluminium sliding fly proof Netting shutter as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 2.0 mm thick outer frame (size 38mm x 38mm), minimum 1.2 mm thick mosquito net shutter frame mesh section (42.2 mm x13.2mm). All aluminium members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like wheel, sealent, rubber, bolts and nuts keeping provision for fitting fiber mesh including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity, all complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.15]					
5.11.15.1	Anodized to any colour [PWD 14.15.1]	sqm	3,903.50	3,901.44	3,887.06	3,887.06
5.11.15.2	Powder coated to any colour [PWD 14.15.2]	sqm	4,493.44	4,491.39	4,477.00	4,477.00
5.11.16	Supplying, fitting and fixing in Aluminium door frames, windows, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 14.16]					
5.11.16.01	5 mm thick tinted glass [PWD 14.16.1.1.1]	sqm	1,533.44	1,530.36	1,513.92	1,513.92
5.11.16.02	5 mm thick tinted tempered glass [PWD 14.16.1.1.2]	sqm	2,460.50	2,456.39	2,439.94	2,439.94
5.11.16.03	5 mm thick clear glass [PWD 14.16.1.2.1]	sqm	1,263.14	1,259.03	1,242.58	1,242.58
5.11.16.04	5 mm thick clear tempered glass [PWD 14.16.1.2.2]	sqm	2,560.19	2,556.08	2,539.64	2,539.64
5.11.16.05	5 mm thick ambushed glass [PWD 14.16.1.3]	sqm	1,248.75	1,244.64	1,228.19	1,228.19
5.11.16.06	5 mm thick reflective glass [PWD 14.16.1.4.1]	sqm	1,705.08	1,700.97	1,684.53	1,684.53
5.11.16.07	5 mm reflective tempered glass [PWD 14.16.1.4.2]	sqm	2,958.97	2,954.86	2,938.42	2,938.42
5.11.16.08	6 mm thick clear glass [PWD 14.16.2.1.1]	sqm	1,533.44	1,530.36	1,513.92	1,513.92
5.11.16.09	6 mm thick clear tempered glass [PWD 14.16.2.1.2]	sqm	2,958.97	2,954.86	2,938.42	2,938.42
5.11.16.10	6 mm thick ambushed glass [PWD 14.16.2.2]	sqm	2,674.28	2,670.17	2,653.72	2,653.72
5.11.16.11	6 mm thick reflecting glass [PWD 14.16.2.3.1]	sqm	1,890.08	1,885.97	1,869.53	1,869.53
5.11.16.12	6 mm thick reflecting tempered glass [PWD 14.16.2.3.2]	sqm	2,916.83	2,912.72	2,896.28	2,896.28
5.11.16.13	8 mm thick clear glass [PWD 14.16.3.1]	sqm	2,178.89	2,173.75	2,151.14	2,151.14
5.11.16.14	8 mm thick clear tempered glass [PWD 14.16.3.2]	sqm	3,960.03	3,954.89	3,933.31	3,933.31
5.11.16.15	10 mm thick clear glass [PWD 14.16.4.1]	sqm	2,424.53	2,417.33	2,390.61	2,390.61
5.11.16.16	10 mm thick clear tempered glass [PWD 14.16.4.2]	sqm	4,391.69	4,384.50	4,357.78	4,357.78
5.11.16.17	12 mm thick clear glass [PWD 14.16.5.1]	sqm	3,179.94	3,172.75	3,146.03	3,146.03
5.11.16.18	12 mm thick clear tempered glass [PWD 14.16.5.2]	sqm	6,101.92	6,094.72	6,068.00	6,068.00
5.11.16.19	13.52mm (6mm tempered glass+1.52mm PVB lamination+6mm tempered glass) foreign made tempered lamination glass [PWD 14.16.6.1]	sqm	9,332.22	9,322.97	9,284.94	9,284.94
5.11.16.20	13.52 mm(6mm low-E glass+1.52mm PVB lamination+6mm glass) foreign made tempered lamination glass [PWD 14.16.6.2]	sqm	11,684.81	11,674.53	11,636.50	11,636.50
5.11.16.21	17.52 mm (8mm tempered glass+1.52mm PVB lamination+8mm tempered glass) foreign made tempered double glazing glass [PWD 14.16.7.1]	sqm	11,372.36	11,359.00	11,307.61	11,307.61

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.16.22	17.52 mm(8mm tempered Low-E glass+1.52mm PVB lamination+8mm clear tempered glass) foreign made tempered double glazing glass [PWD 14.16.7.2]	sqm	12,797.89	12,784.53	12,733.14	12,733.14
5.11.16.23	24mm (6mm tempered glass+12mm argon gas filled gap+6mm tempered glass) foreign made tempered double glazing glass [PWD 14.16.8.1]	sqm	8,198.58	8,185.22	8,130.75	8,130.75
5.11.16.24	24 mm(6mm clear tempered Low-E glass+12mm argon gas filled gap+6mm clear tempered glass) foreign made tempered double glazing glass [PWD 14.16.8.2]	sqm	9,482.28	9,467.89	9,414.44	9,414.44
5.11.17	Supplying, fabrication and Installation of approved colour 4 mm thick Fire Rated Aluminium Composite Panel (Alucobond/Alcopanel/Alpolic or equivalent) of 0.5 mm thick aluminum skin cover both side with 3 coat PVDF on the front face panel sheet and non-combustible mineral filled core/ aluminum hydroxide filled (fr) core, skin cover sheet in Peralumam -100, ENAW -5005 (AlMg1)on the both side(Total weigt.7.60kg/sqm), as per US Architectural Aluminium Manufacturer's Association (AAMA) in column, beam and wall surface providing with 44 mm x 44 mm x 1.5 mm aluminum section including supply of necessary hardwares, consumables, scaffolding etc fitted with necessary accessories like rivet, screw, rowel bolt etc. all complete in all respect as per drawing and direction of the Engineer-in-charge [PWD 14.17]	sqm	13,413.53	13,410.44	13,354.94	13,354.94
5.11.18	Supplying, fitting and fixing of aluminium curtain wall with aluminium top hung/casement windows as per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 134mm , 70mm, 3.5mm curtain wall sub-mullim outer and inner frame,3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm,57.40 mm) 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.18]	sqm	13,782.50	13,776.33	13,690.00	13,690.00
5.11.19	Supplying, fitting and fixing of aluminium curtain wall with aluminium top hung/casement windows as per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 100 mm , 50mm, 2mm curtain wall sub-mullim outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm,57.40 mm), 1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.19]	sqm	11,115.42	11,103.08	10,993.11	10,993.11
5.11.20	Supplying, fitting and fixing of aluminium curtain wall and aluminium top hung/casement windows ad per the US Architectural Aluminium Manufacturer's Association (AAMA) standard specification and BDS 1879:2014 having 50 mm , 50 mm, 2 mm curtain wall sub-mullim outer and inner frame,3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm,57.40 mm) ,1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50 mm x 50 mm x 6 mm aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.20]	sqm	9,638.50	9,626.17	9,516.19	9,516.19

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.21	Supplying, fitting and fixing of aluminium curtain wall along with 10 mm thick clear tempered glass as per the US Architectural aluminium Manufacturer's Association (AAMA) Standard Specification and BDS 1879:2014 having 115 mm , 64 mm, 3 mm curtain wall sub-mullim outer and inner frame, 3.0 mm thick casement shutter (size 58.40 mm, 37.20 mm,57.40 mm) ,1.2 mm thick shutter glass strips, all aluminium member will be powder coated with coat not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50 m x 50mm x 6m aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.21]	sqm	12,096.94	12,090.78	12,018.83	12,018.83
5.11.22	Supplying, fitting and fixing of 12 mm thick clear tempered glass wall upto 3.0 m height with vertical fin glass support of same thickness and support shall be at least 1.2 m c/c fixed properly with glass by silicon glue with supply and fittings of all required accessories such as SS u channel, nut bolts, aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in- charge. [PWD 14.22]	sqm	22,107.50	22,097.22	22,008.83	22,008.83
5.11.23	Supplying, fitting and fixing of 12 mm thick tempered glass wall from 3.0 m to 6.0 m height with spider point fixing joint and vertical fin glass support of same thickness, support shall be at least 1.2 m c/c fixed properly with main glass by silicon glue with supply and fittings of all required accessories such as SS u chennel, nut bolts, aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.23]	sqm	22,722.11	22,716.97	22,654.28	22,654.28
5.11.24	Supplying, fitting and fixing of 12 mm thick clear tempered glass wall from 6.0 m to 8.2 m height with spider point fixing joint and vertical/ horizontal fin glass support of double thickness, support shall be at least 2 m c/c fixed properly with main glass by silicon glue with supply and fittings of all required accessories such as SS u chennel, nut bolts, aluminium angle, steel rowel bolt, screws , rivets norton tape masking tape, structural sealant, gum bracket rod etc. all complete in all respect as per drawing and direction of the Engineer-in-charge. [PWD 14.24]	sqm	23,112.67	23,109.58	23,051.00	23,051.00
5.11.25	Supplying fitting and fixing of aluminium box fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 50mm x 25 mm, 1.5 mm thick outer section and horizantally @ 75 mm c/c fixed with above mentined frame and all aluminium members will be anodized to aluminium with a coat not less than 15 micron in thickness and density of 4 mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer.[PWD 14.25]					
5.11.25.1	Anodized to any colour [PWD 14.25.1]	sqm	9,004.36	8,999.22	8,968.39	8,968.39
5.11.25.2	Powder coated to any colour [PWD 14.25.2]	sqm	10,144.17	10,139.03	10,109.22	10,109.22
5.11.26	Supplying fitting and fixing of aluminium ventilation louver as per the U.S Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 38 mmx 38mm, 2 mm thick outer frame, 39.67 mm x15.06 mm louver outer of minimum 1.2 mm thick and horizontal louver 55.02 mm x 37.39 mm of 1.50 mm thick @ 25 mm c/c fixed with above mentioned frame and aluminium members will be Powder coated colour etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer. [PWD 14.26]					
5.11.26.1	Anodized to any colour [PWD 14.26.1]	sqm	16,093.97	16,078.56	15,978.86	15,978.86
5.11.26.2	Powder coated to any colour [PWD 14.26.2]	sqm	18,073.47	18,059.08	17,958.36	17,958.36

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.11.27	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass digital Honour board including all accessories, heavy type 6 nos. SS clamping devices/SS knob, digital print name plate including making hole etc. complete in all respect as per drawing and direction of the Engineer-in-charge.[PWD 22.27]	sqm	11,260.33	11,237.72	11,146.25	11,146.25
Section 12 : Cement Plaster, Fair-Face Plaster And Pointing Works						
5.12.01	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to both inner-and outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.1.1]	sqm	323.75	321.69	305.25	305.25
5.12.02	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to outer surface of wall, finishing the corner and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.1.2]	sqm	344.31	342.25	325.81	325.81
5.12.03	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to plinth wall with cement (1:4) up to 150 mm below ground level including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.2]	sqm	391.58	388.50	368.97	368.97
5.12.04	Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing to dado with cement (1:4) up to 150 mm including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.3]	sqm	405.97	403.92	383.36	383.36
5.12.05	Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:6) having with fresh cement to both inner and outer surface of wall, finishing the edges and corners including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.[PWD 15.4]	sqm	311.42	309.36	291.89	291.89
5.12.06	Minimum 6 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to ceiling, R.C.C. columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins and finishing the corners and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.5]	sqm	309.36	307.31	287.78	287.78
5.12.07	Minimum 6 mm thick cement sand (F.M. 1.2) plaster (1:3) with fresh cement to ceiling, R.C.C. columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins and finishing the corners and edges including washing of sand, cleaning the surface, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.6]	sqm	305.25	303.19	285.72	285.72
5.12.08	Flush pointing to brick wall with cement sand (F.M. 1.2) mortar (1:2) with cement including raking out the joints, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor.[PWD 15.7]	sqm	206.58	204.53	192.19	192.19

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.12.09	Rule pointing to brick wall with cement sand (F.M. 1.2) mortar (1:2) with fresh cement and raking out the joints, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.8]	sqm	245.64	244.61	229.19	229.19
5.12.10	Raised or tack pointing work to brick wall with cement sand (F.M. 1.2) mortar (1:2) with fresh cement of minimum 12 mm x 20 mm in size including raking out the joints and necessary scaffolding, curing at least for 7 days, cleaning each and every brick, cutting the bricks with pumice stone where necessary etc. all complete in all floors, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) ground floor. [PWD 15.9]	sqm	638.25	630.03	593.03	593.03
5.12.11	Providing drip course or nosing at the edge of sunshade or cornice with cement sand (F.M. 1.2) mortar (1:2) with fresh cement, curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 15.10]	m	175.75	174.72	162.39	162.39
5.12.12	Minimum 10 mm thick fair face plaster using premix cement plaster (CP2 LGT/Stucco base premix or equivalent); initial background should be 19 mm rough cement plaster (1:4); then after passing 7 days curing time surface of newly constructed rough plaster should be throughly cleaned using a stiff brush to remove any dust, loose particles, wood pieces, mould oil etc, then the backgound needs to be throughly neutralized by applying potable water; Mixing premix cement plaster with water at water/powder ratio according to the specification of the manufacturer to form paste and apply on rough plaster surface; powder for making paste must be mixed with potable water only; apply the paste on the rough plaster surface by trowel to get smooth and shiny surface and cure the finished plaster suface for 2-3 days(3-4 times daily); finally water repellent coating to protect concrete surface; all complete with necessary scaffolding etc. accepted by the Engineer-in-charge.(Rate is excluding the cost of 19 mm thick rough cement plaster and water repellent paint) Ground Floor [PWD 15.12]	sqm	2,103.86	2,096.67	2,046.31	2,046.31
5.12.13	Making groove in fair face plaster on outside wall upto 50 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge.[PWD 15.13.1]	m	56.53	56.53	54.47	54.47
5.12.14	Making groove in fair face plaster on outside wall upto 38 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge. [PWD 15.13.2]	m	68.86	68.86	65.78	65.78
5.12.15	Minimum 1mm thick fair face coating using Master Emaco N 303 Rendroc FC/Top Crete 220 or equivalent product micro toping skim coat, a high performance single component polymer fortified, colored, cementitious micro topping that can be applied on a variety of horizontal and vertical plaster surfaces; initially background should be thoroughly cleaned using a stiff brush to remove any dust, loose particles, mould oil etc.; then the background needs to be thoroughly neutralized by applying potable water ; The ratio of fair face coating and water is 1.5:1 to 2:1 or as required for workability ; powder will be mixed with potable water in a drum by blending machine; the mixture can be spread to any horizontal and vertical plaster surface using trowel to get smooth and shiny surface; all complete with necessary scaffolding etc. accepted by the Engineer-in-charge. (Rate is excluding the cost of 19 mm thick rough cement plaster)Ground floor. [PWD 15.14]	sqm	1,550.92	1,549.89	1,537.56	1,537.56

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.12.16	Minimum 12mm thick cement sand (F.M-1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STN-EN -1015-11 , Compressive Strength 34 MPa ,Max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer –in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement). [PWD 15.15.1]	sqm	667.03	664.97	646.47	646.47
5.12.17	Minimum 19mm thick cement sand (F.M-1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STN-EN -1015-11 , Compressive Strength 34 MPa ,Max depth of water penetration into hardened plaster is < 1 mm) /equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer –in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement).[PWD 15.15.2]	sqm	857.17	855.11	836.61	836.61
5.12.18	Added rate for plaster and all types of pointing for additional floor above ground floor [PWD 15.16]	sqm	15.42	14.39	13.36	13.36
5.12.19	Pre-cast ventilators of minimum 25 mm thick of any design with cement sand (F.M.1.2) mortar (1:4) fitted and fixed in position, finishing with cement sand (F.M. 1.2) plaster (1:6) including necessary scaffolding and curing, in all floors accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 15.17]	sqm	3,067.92	3,051.47	2,869.56	2,869.56
5.12.20	75 mm x 75 mm cornice of brick masonry in cement sand (F.M. 1.2) mortar (1:6) having minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:6) including scaffolding and curing at least for 7 days in all floors accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 15.18]	m	286.75	283.67	266.19	266.19
5.12.21	Supplying, fitting, fixing of broken and sharp glass 19 mm to 32 mm height, av. 19 mm width placed at a distance approximately 25 mm center to center, embedding the same to 12 mm to 19 mm thick cement plaster with neat cement finishing including necessary scaffolding approved and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) [PWD 15.19]	sqm	309.36	308.33	302.17	302.17
5.12.22	Supply and application of 19mm thick (9.5 mm X 2 layer) water proof, damp proof, dry and breathable plaster on roof slab/ underground water reservoir/ overhead water reservoir/ basement/retaining wall with water proof, damp proof, dry and breathable Izonil cement (STN-EN -1015-11 , compressive strength 34 MPa ,max depth of water penetration into hardened plaster is < 1 mm) or equivalent compound in a proportion of 1:2.4 (Izonil cement or equivalent compound 1: sand 2.4) after cement grouting on existing concrete surface including finishing the corner and edges, washing sand, cleaning the surface scaffolding and curing at least 3 days etc. all completed in all respects as per direction of Engineering-in-charge. Above mentioned plaster includes glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between two layers. [PWD 17.3]	sqm	1,274.44	1,271.36	1,252.86	1,252.86

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.12.23	Average 100 mm thick finished lime terracing with 20 mm down graded first class brick chips (khoa), surki from 1st class bricks and minimum lime content 500 kg per 2.83 cubic meter (stone lime brought at site, not being powdered in open air and to be slaked in presence of engineer-in-charge and to be measured in volume three days after slaking for using in the mix) in the proportion 7:2:2 (brick chips : surki : lime) including preparation of the mix on the ground by making a suitable platform under proper polythene cover. Cutting the mix twice daily with limewater (1:10) at least for 7 days until the mix attain desirable consistency. Laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoondy and neat finishing with lime Surki mortar (1:2) and curing for 21 days providing polythene cover after each day work and cleaning etc. complete in all respect accepted by the Engineer-in-charge. [PWD 17.4]					
5.12.23.1	1st Floor [PWD 17.4]	cum	19,739.50	19,612.06	18,784.69	18,784.69
5.12.23.2	Added rate for lime terracing work in each additional floor above 1st floor [PWD 17.4.1]	cum	122.31	120.25	111.00	111.00
5.12.24	Making groove in plaster on outside wall upto 50 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge. [PWD 15.11.1]	m	29.81	29.81	27.75	27.75
5.12.25	Making groove in plaster on outside wall upto 38 mm X 6 mm size including scaffolding, curing etc. complete as per drawing and accepted by the Engineer-in-charge. [PWD 15.11.2]	m	46.25	45.22	43.17	43.17
Section 13 : Patent Stone In Flooring						
5.13.01	25 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 04.26)	sqm	550.89	545.75	525.19	525.19
5.13.02	38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded brick chips including breaking chips, screening, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 04.27)	sqm	685.53	679.36	655.72	655.72
5.13.03	25 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD 04.28)	sqm	607.42	604.33	572.47	577.61
5.13.04	38 mm thick artificial patent stone (1:2:4) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. Cement: (CEM-II/B-M) In ground floor (PWD 04.29)	sqm	769.81	766.72	726.64	734.86

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.13.05	25 mm thick artificial patent stone (1:1.5:3) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 04.30)	sqm	630.03	626.94	595.08	600.22
5.13.06	38 mm thick artificial patent stone (1:1.5:3) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best quality local sand of FM 1.2) and 12 mm down well graded stone chips, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.(Cement: CEM-II/B-M) In ground floor (PWD BW 04.31)	sqm	803.72	800.64	760.56	768.78
5.13.07	Added cost for each additional floor above ground floor for patent stone works. (PWD BW 04.32)	sqm	25.69	25.69	23.64	23.64
Section 14 : Mosaic Works						
5.14.01	10 mm thick finished and 12.5 mm laying thickness cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement / grey cement including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No.120) /cutting with mosaic cutting machine and finishing with minar stone and spreading oxalic acid including breaking of brick chips, screening, washing mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC) (PWD BW 05.1)					
5.14.01.1	With Indian chips and glass strip using 100% white cement In ground floor	sqm	2,254.94	2,239.53	2,175.81	2,175.81
5.14.01.2	With Indian chips and glass strip using 100% grey cement In ground floor	sqm	1,966.14	1,951.75	1,888.03	1,888.03
5.14.01.3	With Pakistani chips and glass strip using 100% white cement In ground floor	sqm	2,288.86	2,274.47	2,209.72	2,209.72
5.14.01.4	With Pakistani chips without glass strip using 100% grey cement In ground floor	sqm	1,710.22	1,696.86	1,641.36	1,641.36
5.14.01.5	With Indian chips without glass strip using 100% grey cement In ground floor	sqm	1,676.31	1,662.94	1,607.44	1,607.44
5.14.01.6	With Pakistani chips without glass strip using 100% white cement In ground floor	sqm	1,999.03	1,984.64	1,930.17	1,930.17
5.14.02	12 mm thick finished and laying thickness 14.5 mm cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing 100% white cement including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120)/ cutting with mosaic cutting machine and finishing with minar stone including breaking of brick chips, screening, spreading oxalic acid, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC). [PWD 05.2]					
5.14.02.1	With Indian chips and glass stripIn ground floor	sqm	2,346.42	2,332.03	2,268.31	2,268.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.14.02.2	With Pakistani chips and glass stripIn ground floor	sqm	2,384.44	2,370.06	2,305.31	2,306.33
5.14.02.3	With Indian chips without glass stripIn ground floor	sqm	2,056.58	2,042.19	1,987.72	1,987.72
5.14.02.4	With Pakistani chips without glass stripIn ground floor	sqm	2,094.61	2,080.22	2,025.75	2,025.75
5.14.03	10 mm thick finished and laying thickness 12.5 mm silver grey cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials including water, electricity and other charges in all respect and accepted by the Engineer-in-charge.(Cement: CEM-I/OPC) [PWD 05.3]					
5.14.03.1	With Indian chips and glass strip In ground floor	sqm	2,111.06	2,095.64	2,031.92	2,031.92
5.14.03.2	With Pakistani chips and glass strip In ground floor	sqm	2,144.97	2,129.56	2,065.83	2,065.83
5.14.03.3	With Indian chips without glass strip In ground floor	sqm	1,820.19	1,806.83	1,752.36	1,752.36
5.14.03.4	With Pakistani chips without glass strip In ground floor	sqm	1,854.11	1,840.75	1,786.28	1,786.28
5.14.04	12 mm thick finished and laying thickness 14.5 mm silver grey cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panels, compacting, curing at least for 7 days, cutting with pumice stone (No. 40. No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC) [PWD 05.4]					
5.14.04.1	With Indian chips and glass strip In ground floor	sqm	2,185.06	2,169.64	2,105.92	2,105.92
5.14.04.2	With Pakistani chips and glass strip In ground floor	sqm	2,223.08	2,207.67	2,143.94	2,143.94
5.14.04.3	With Indian chips without glass strip In ground floor	sqm	1,895.22	1,880.83	1,826.36	1,826.36
5.14.04.4	With Pakistani chips without glass strip In ground floor	sqm	1,933.25	1,918.86	1,864.39	1,864.39

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.14.05	10 mm thick finished and laying thickness 12.5 mm cast in situ mosaic work in wall with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing 100% white cement including preparation of mix and laying the same on 12 mm thick cement plaster (1:4) to wall including compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120), finishing the corners and edges and also finishing with minar stone and supplying all necessary materials including water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC)					
5.14.05.1	With Indian chips In ground floor	sqm	2,278.58	2,244.67	2,167.58	2,167.58
5.14.05.2	With Pakistani chips In ground floor	sqm	2,313.53	2,278.58	2,201.50	2,201.50
5.14.06	10 mm thick finished and laying thickness 12.5 mm silver grey cast in situ mosaic work in wall with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (1:1) including preparation of mix. and laying the same on 12 mm thick cement plaster (1:4) to wall including compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No 120) including finishing the corners and edges and also finishing with minar stone and supplying all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC). [PWD 05.6]					
5.14.06.1	With Indian chips In ground floor	sqm	2,134.69	2,100.78	2,022.67	2,022.67
5.14.06.2	With Pakistani chips In ground floor	sqm	2,168.61	2,134.69	2,056.58	2,056.58
5.14.06.3	With Indian chips using 100% grey cement In ground floor	sqm	1,990.81	1,956.89	1,878.78	1,878.78
5.14.07	10 mm thick finished laying in 12.5 mm thickness coloured cast in situ mosaic work in floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same over min 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC) [PWD 05.7]					
5.14.07.1	With Indian chips and glass stripIn ground floor	sqm	2,342.31	2,326.89	2,263.17	2,263.17
5.14.07.2	With Pakistani chips and glass stripIn ground floor	sqm	2,376.22	2,360.81	2,297.08	2,297.08
5.14.07.3	With Indian chips without glass stripIn ground floor	sqm	1,763.67	1,749.28	1,694.81	1,694.81
5.14.07.4	With Pakistani chips without glass stripIn ground floor	sqm	1,941.47	1,927.08	1,872.61	1,872.61

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.14.08	12 mm thick finished and laying thickness 14 mm coloured cast in situ mosaic work on floor with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same over minimum 25 mm thick artificial patent stone flooring with brick-chips (1:2:4) including making suitable panel, compacting, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with minar stone including breaking of brick chips, screening, washing of mosaic chips and supply of all necessary materials and water, electricity and other charges in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC). [PWD 05.8]					
5.14.08.1	With Indian chips and glass stripIn ground floor	sqm	2,433.78	2,418.36	2,354.64	2,354.64
5.14.08.2	With Pakistani chips and glass stripIn ground floor	sqm	2,471.81	2,456.39	2,392.67	2,392.67
5.14.08.3	With Indian chips without glass stripIn ground floor	sqm	2,142.92	2,129.56	2,075.08	2,075.08
5.14.08.4	With Pakistani chips without glass stripIn ground floor	sqm	2,180.94	2,167.58	2,113.11	2,113.11
5.14.09	10 mm thick finished and laying thickness 12.5 mm coloured cast in situ mosaic work in walls with one part of 10 mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in proportion (9:1) and necessary quantity of approved colouring materials including preparation of mix and laying the same on 12 mm thick cement sand (F.M. 1.2) plaster (1:4) to walls including pressing, curing at least for 7 days, cutting with pumice stone (No. 40, No. 80, No. 120) including finishing the corners and edges and also finishing with minar stone and supply of all necessary materials etc. and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC). [PWD 05.9]					
5.14.09.1	With Indian chipsIn ground floor	sqm	2,365.94	2,332.03	2,253.92	2,253.92
5.14.09.2	With Pakistani chipsIn ground floor	sqm	2,399.86	2,365.94	2,287.83	2,287.83
5.14.10	200 mm x 200 mm x 20 mm mosaic terrazzo tiles flooring having 10 mm thick finished mosaic top with one part of 10 mm machine crushed well graded dust free and properly washed marble chips and one part of mixture containing white cement and grey cement in 9:1 proportion pressed on 12 mm thick cement sand (F.M. 1.2 and 2.5 by 50% each) mortar (1:2) base including preparing the base; finally, setting the tiles on 40 mm thick cement sand (F.M.1.2 and 2.5 by 50% each) mortar (1:3) including compacting, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing the corners and edges and also finishing with minar stone including screening, washing mosaic chips and supply of all necessary materials etc. and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-I/OPC). [PWD 05.10]					
5.14.10.1	200 mm x 200 mm x 20 mm (finished) mosaic terrazzo tiles flooring with Indian chips In ground floor	sqm	2,062.75	2,053.50	2,011.36	2,012.39
5.14.10.2	200 mm x 200 mm x 20 mm (finished) mosaic terrazzo tiles flooring with Pakistani chips In ground floor	sqm	2,095.64	2,086.39	2,044.25	2,044.25
5.14.11	Added cost for mosaic and terrazzo tiles work above ground floor (item no.- 05.1 to 05.10).	sqm	18.50	18.50	17.47	17.47

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section 15: Tiles, Marble And Granite Stone Works						
5.15.01	Supplying, fitting and fixing country made GP(Gress Porcellanto) - glazed or unglazed homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD 06.1)					
5.15.01.1	GP (homogeneous) 300 mm x 300 mm floor tiles	sqm	1,384.42	1,377.22	1,350.50	1,350.50
5.15.01.2	GP (homogeneous) 400 mm x 400 mm floor tiles	sqm	1,527.28	1,520.08	1,493.36	1,493.36
5.15.01.3	GP (homogeneous) 300 mm x 600 mm floor tiles	sqm	1,655.75	1,648.56	1,620.81	1,620.81
5.15.01.4	GP (homogeneous) 600 mm x 600 mm floor tiles	sqm	1,697.89	1,690.69	1,663.97	1,663.97
5.15.01.5	GP (homogeneous) 600 mm x 1200 mm floor tiles	sqm	3,152.19	3,145.00	3,118.28	3,118.28
5.15.01.6	GP (homogeneous) 305 mm x 305 mm high traffic floor tiles	sqm	1,484.11	1,476.92	1,450.19	1,450.19
5.15.02	Supplying, fitting and fixing country made mirror polished homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.2)					
5.15.02.1	GP (mirror polished) 400 mm x 400 mm floor tiles	sqm	1,697.89	1,690.69	1,663.97	1,663.97
5.15.02.2	GP (mirror polished) 500 mm x 500 mm floor tiles	sqm	1,840.75	1,833.56	1,806.83	1,806.83
5.15.02.3	GP (mirror polished) 600 mm x 600 mm floor tiles	sqm	2,025.75	2,018.56	1,991.83	1,991.83
5.15.02.4	GP (mirror polished) 800 mm x 800 mm floor tiles	sqm	2,168.61	2,161.42	2,134.69	2,134.69
5.15.02.5	GP (mirror polished) 600 mm x 900 mm floor tiles	sqm	2,438.92	2,431.72	2,405.00	2,405.00
5.15.02.6	GP (mirror polished) 600 mm x 1200 mm floor tiles	sqm	2,880.86	2,873.67	2,846.94	2,846.94
5.15.02.7	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	sqm	2,253.92	2,246.72	2,220.00	2,220.00
5.15.02.8	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	sqm	2,753.42	2,745.19	2,718.47	2,718.47
5.15.03	Supplying, fitting and fixing country made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.3)					
5.15.03.1	Matt or rustic floor tiles of size 400 mm x 400 mm and below	sqm	1,769.83	1,761.61	1,734.89	1,734.89
5.15.03.2	Matt or rustic floor tiles of size 600 mm x 600 mm and below	sqm	1,996.97	1,989.78	1,963.06	1,963.06
5.15.03.3	Matt or rustic floor tiles of size 800 mm x 800 mm and below	sqm	2,453.31	2,446.11	2,419.39	2,419.39
5.15.04	Supplying, fitting and fixing foreign made polished pocelain/ mirror polished homogeneous floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 35 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.4)					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.04.1	Polish pocelain/ mirror polished 600 mm x 600 mm floor tiles	sqm	2,667.08	2,659.89	2,633.17	2,633.17
5.15.04.2	Polished pocelain/ mirror polished 800 mm x 800 mm floor tiles	sqm	2,952.81	2,944.58	2,917.86	2,917.86
5.15.04.3	Polished pocelain/ mirror polished 600 mm x 1200 mm floor tiles	sqm	4,804.86	4,797.67	4,770.94	4,770.94
5.15.04.4	Polished pocelain/ mirror polished 1000 mm x 1000 mm floor tiles	sqm	6,230.39	6,223.19	6,196.47	6,196.47
5.15.04.5	Polished pocelain/ mirror polished 1200 mm x 1200 mm floor tiles	sqm	7,655.92	7,648.72	7,622.00	7,622.00
5.15.05	Supplying, fitting and fixing foreign made homogeneous matt finished/ rustic floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.5)					
5.15.05.1	Matt or rustic floor tiles of size 600 mm x 600 mm	sqm	3,094.64	3,087.44	3,060.72	3,060.72
5.15.05.2	Matt or rustic floor tiles of size 600 mm x 900 mm	sqm	5,090.58	5,083.39	5,056.67	5,056.67
5.15.06	Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.6)					
5.15.06.1	Wall tiles less than, equal or equivalent to 250 mm x 330 mm in sizes	sqm	1,393.67	1,384.42	1,347.42	1,347.42
5.15.06.2	Wall tiles more than 250 mm x 330 mm & less than or equal to 250 mm x 400 mm in sizes	sqm	1,636.22	1,626.97	1,589.97	1,589.97
5.15.06.3	Wall tiles more than 250 mm x 400 mm & less than or equal to 300 mm x 600 mm in sizes	sqm	1,920.92	1,912.69	1,874.67	1,874.67
5.15.06.4	Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes	sqm	2,006.22	1,998.00	1,959.97	1,959.97
5.15.06.5	Decor wall tiles of any size	sqm	2,177.86	2,168.61	2,131.61	2,131.61
5.15.06.6	Border wall tiles of any size	sqm	4,558.19	4,548.94	4,511.94	4,511.94
5.15.07	Supplying, fitting and fixing country made rustic or matt finished wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.7)					
5.15.07.1	Matt or rustic wall tiles less than or equal to 300 mm x 600 mm size	sqm	2,020.61	2,012.39	1,974.36	1,974.36
5.15.08	Supplying, fitting and fixing foreign made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.8)					
5.15.08.1	Glazed wall tiles 300 mm x 600 mm in sizes along with maching floor tiles, decor and border (if any)	sqm	2,989.81	2,981.58	2,943.56	2,943.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.09	Supplying, fitting and fixing foreign made rustic or matt finished wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.9)					
5.15.09.1	Matt or rustic wall tiles 300 mm x 600 mm in sizes along with matching floor tiles, decor and border titles (if any)	sqm	2,989.81	2,981.58	2,943.56	2,943.56
5.15.10	Supplying, fitting and fixing country made GP homogeneous stair tiles having non skidding offsets, complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.10)					
5.15.10.1	Glazed stair tiles having size of width 250 mm to 300 mm and length 300 mm	sqm	1,498.50	1,491.31	1,464.58	1,464.58
5.15.10.2	Glazed stair tiles having size of width 250 mm to 300 mm and length 325 mm to 600 mm	sqm	1,911.67	1,904.47	1,877.75	1,877.75
5.15.10.3	Glazed stair tiles (Double Charge) having size of width 300 mm and length 600 mm	sqm	2,467.69	2,460.50	2,433.78	2,433.78
5.15.11	Supplying, fitting and fixing country made rustic or matt finished stair tiles having non-skidding offsets complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.11)					
5.15.11.1	Rustic stair tiles of size 300 mm x 600 mm	sqm	1,811.97	1,804.78	1,778.06	1,778.06
5.15.12	Supplying, fitting and fixing foreign made GP homogeneous stair tiles having non skidding offsets, complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting and laying the tiles in proper way and finishing with care etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.12)					
5.15.12.1	Glazed stair tiles of size 300 mm x 600 mm	sqm	2,097.69	2,089.47	2,062.75	2,062.75
5.15.13	Supplying, fitting and fixing foreign made rustic or matt finished stair tiles having non-skidding offsets complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.13)					
5.15.13.1	Rustic stair tiles of size 300 mm x 600 mm	sqm	1,883.92	1,875.69	1,848.97	1,848.97
5.15.14	Supplying, fitting and fixing country made floor tiles complying BDS ISO 13006: 2015, water absorption ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with adhesives in full thickness of tiles, filler/tiles grout including cutting, shaping, placing in proper level etc. all complete and accepted by the Engineer in charge. In ground floor (PWD BW 06.14)					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.14.01	GP glazed / unglazed homogenous floor tiles (400 mm x 400 mm)	sqm	1,633.14	1,626.97	1,595.11	1,595.11
5.15.14.02	GP glazed / unglazed homogenous floor tiles (300 mm x 300 mm)	sqm	1,490.28	1,484.11	1,453.28	1,453.28
5.15.14.03	GP Mirror Polished floor tiles (300 mm x 300 mm)	sqm	1,562.22	1,555.03	1,524.19	1,524.19
5.15.14.04	GP Mirror Polished floor tiles (400 mm x 400 mm)	sqm	1,804.78	1,797.58	1,766.75	1,766.75
5.15.14.05	GP Mirror Polished floor tiles (600 mm x 600 mm)	sqm	2,132.64	2,125.44	2,094.61	2,094.61
5.15.14.06	GP Mirror Polished floor tiles (800 mm x 800 mm)	sqm	2,274.47	2,268.31	2,236.44	2,236.44
5.15.14.07	GP Mirror Polished floor tiles (600 mm x 900 mm)	sqm	2,545.81	2,538.61	2,507.78	2,507.78
5.15.14.08	GP Mirror Polished floor tiles (600 mm x 1200 mm)	sqm	2,987.75	2,980.56	2,949.72	2,949.72
5.15.14.09	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	sqm	2,359.78	2,353.61	2,322.78	2,322.78
5.15.14.10	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	sqm	2,859.28	2,852.08	2,821.25	2,821.25
5.15.15	Supplying, fitting and fixing 20mm to 25mm thick machine made cement pavement tiles having minimum compressive strength of 27 MPa, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:4) base and making the joints carefully in true straight line including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.15)					
5.15.15.1	Pavement tiles of size 300 mm x 300 mm [PWD 06.15.1]	sqm	1,241.56	1,234.36	1,207.64	1,207.64
5.15.16	Supplying, fitting and fixing machine made clay roof tiles with ridge tiles on RCC inclined slab, irrespective of color &/or design, water absorption capacity <6% with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and making the joints carefully in true straight line including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor (PWD BW 06.16)					
5.15.16.01	Roof tiles of size 100 mm x 200 mm or equivalent (red colour)	sqm	3,066.89	3,055.58	3,005.22	3,005.22
5.15.16.02	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (red colour)	sqm	3,478.00	3,466.69	3,416.33	3,416.33
5.15.16.03	Roof tiles of size 160 mm x 268 mm or equivalent (red colour)	sqm	3,196.39	3,185.08	3,134.72	3,134.72
5.15.16.04	Roof tiles of size 225 mm x 300 mm or larger (red colour)	sqm	3,281.69	3,271.42	3,220.03	3,220.03
5.15.16.05	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (red colour)	sqm	4,168.67	4,157.36	4,107.00	4,107.00
5.15.16.06	Roof tiles of size 100 mm x 200 mm or equivalent (beige colour)	sqm	3,039.14	3,028.86	2,977.47	2,977.47
5.15.16.07	Roof tiles of size 125 mm x170 mm to 200 mm x 200 mm or equivalent (beige colour)	sqm	3,609.56	3,599.28	3,547.89	3,547.89
5.15.16.08	Roof tiles of size 225 mm x 300 mm or larger (beige colour)	sqm	3,538.64	3,527.33	3,476.97	3,476.97
5.15.16.09	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (beige colour)	sqm	4,336.19	4,325.92	4,274.53	4,274.53
5.15.16.10	Roof tiles of size 125 mm x 170 mm to 200 mm x 200 mm or equivalent (grey or black colour)	sqm	3,609.56	3,599.28	3,547.89	3,547.89
5.15.16.11	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (grey or black colour)	sqm	4,707.22	4,695.92	4,645.56	4,645.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.17	Marble stone flooring with Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent) marble stone of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge.(Cement: CEM-II/B-M). (PWD BW 06.17)					
5.15.17.1	18 mm thick marble stone flooring In ground floor	sqm	8,212.97	8,204.75	8,107.11	8,107.11
5.15.17.2	16 mm thick marble stone flooring In ground floor	sqm	7,670.31	7,662.08	7,564.44	7,564.44
5.15.18	Marble stone flooring with Indian superior quality marble stone of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge. (Cement: CEM-II/B-M) (PWD BW 06.18)					
5.15.18.1	18 mm thick marble stone flooring In ground floor	sqm	8,892.33	8,884.11	8,785.44	8,786.47
5.15.18.2	16 mm thick marble stone flooring In ground floor	sqm	7,805.97	7,797.75	7,700.11	7,700.11
5.15.19.1	Supplying and setting 12 mm thick Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent) marble stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.19.1)	sqm	7,111.19	7,102.97	7,005.33	7,005.33
5.15.19.2	Supplying and setting 12 mm thick Indian superior quality marble stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.19.2)	sqm	7,518.19	7,509.97	7,412.33	7,412.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.20.1	Marble stone flooring with 18mm thick Italian or equivalent marble stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including. placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M). In ground floor.(PWD BW 06.20.1)	sqm	10,792.69	10,784.47	10,685.81	10,686.83
5.15.20.2	Supplying and setting 12 mm thick Italian or equivalent quality marble stone on wall of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the marble stone slab/tile, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor .(PWD BW 06.20.2)	sqm	10,097.92	10,089.69	9,992.06	9,992.06
5.15.21	Labour cost for making moulding in marble stone as per architectural drawing including cutting, grinding, finishing, supplying necessary equipment etc. complete in all respect and accepted by the Engineer in Charge. (Cement: CEM-II/B-M). .(PWD BW 06.21)					
5.15.21.1	18 mm thick marble stone	m	488.19	486.14	466.61	466.61
5.15.21.2	16 mm thick marble stone	m	483.06	481.00	461.47	461.47
5.15.21.3	12 mm thick marble stone	m	410.08	408.03	393.64	393.64
5.15.22	Granite stone flooring with 18mm thick Indian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including. placing cement slurry below the stone, cutting the granite stone to desired size, grinding and finishing the edges, setting in position in proper level. filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor .(PWD BW 06.22)	sqm	9,435.00	9,426.78	9,329.14	9,329.14
5.15.23	Granite stone flooring with 18mm thick Italian or equivalent origin granite stone of approved quality complying accepted National/ International standards, texture and size over 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including. placing cement slurry below the stone, cutting the granite stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.23)	sqm	10,792.69	10,784.47	10,685.81	10,686.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.15.24	Supplying and setting 12 mm thick Indian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the granite stone slab, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.24)	sqm	7,382.53	7,374.31	7,276.67	7,276.67
5.15.25	Supplying and setting 12 mm thick Italian or equivalent granite stone of approved quality complying accepted National/ International standards, texture and size on wall with 12 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including cutting and grinding the granite stone slab, setting in position keeping horizontal and vertical alignment correct, filling the joints with white cement, cutting and grinding the top surface, finishing etc including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. (Cement: CEM-II/B-M) In ground floor (PWD BW 06.25)	sqm	8,740.22	8,732.00	8,634.36	8,634.36
5.15.26	Kota stone flooring of approved quality complying accepted National/ International standards, texture and size with 25 mm thick cement sand (50% F.M. 1.2 and 50% F.M 2.2) mortar (1:2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, setting in position in proper level, filling the gaps with white cement and colouring pigments including supplying all necessary equipments/materials and finishing the top by pumice stone and necessary auxiliary materials and water, electricity and other charges complete in all respect and accepted by the Engineer in charge. (Cement: CEM-II/B-M) (PWD BW 06.26)					
5.15.26.1	14-22 mm thick Kota stone flooring In ground floor	sqm	4,999.11	4,995.00	4,927.17	4,927.17
5.15.27	Added rate for each additional floor above ground floor for tiles works (PWD BW 06.27)	sqm	15.42	14.39	13.36	13.36
5.15.28	Added rate for each additional floor above ground floor for marble and granite stone works (PWD BW 06.28)	sqm	25.69	25.69	23.64	23.64
Section 16 : Painting And Polishing						
5.16.01	Exterior standard acrylic emulsion paint of approved best quality and color having water resisting properties and resistance properties against fungi, fading & flaking delivered from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-incharge. [PWD 16.1.1]	sqm	281.61	280.58	268.25	268.25

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.02	Exterior premium acrylic emulsion paint of approved best quality and color with high performance against dirt picking tendency and efflorosence resistence properties along with water resisting properties and resistance properties against fungi, fading and flaking from authorized local agent of the manufacturer in a sealed container; applying to exterior surface with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary exterior sealer of specified brand on prepared surface; then applying necessary exterior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of exterior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.1.2]	sqm	306.28	305.25	293.94	293.94
5.16.03.1	Interior standard acrylic emulsion paint (plastic or matt finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-incharge. [PWD 16.2.1]	sqm	265.17	264.14	251.81	251.81
5.16.03.2	Interior premium acrylic emulsion painting (silky finish) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge [PWD 16.2.2]	sqm	290.86	289.83	277.50	277.50
5.16.03.3	Interior super premium acrylic emulsion painting (odorless) of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper, finally applying 2 coats of interior emulsion paint spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors accepted by the Engineer-in-charge. [PWD 16.2.3]	sqm	322.72	321.69	309.36	309.36

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.04.1	Standard synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondibility, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in 2 coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.3.1]	sqm	235.36	234.33	222.00	222.00
5.16.04.2	Premium synthetic enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondibility, flexiblity property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray in two coats over single coat anti-corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.3.2]	sqm	244.61	243.58	231.25	231.25
5.16.05	Interior design paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying necessary interior sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; applying 3 coats of interior design paint; 1st coat on prepared suface , then applying 1 design coat on the 1st coat and finally applying 1 protection coat on the design coat for protecting the design spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-incharge. [PWD 16.4]	sqm	884.92	879.78	841.75	841.75
5.16.06	Textured paint of approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container; applying to interior wall and ceiling including surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus if required must be treated with fungicidal solution, mending good the surface defects using sand paper and necessary scaffolding; applying necessary sealer of specified brand on prepared surface; then applying necessary interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; applying 3 coats of texture paint; 1st coat on prepared suface , then applying 1 texture coat on the 1st coat and finally applying 1 top coat on the texture coat upto desired finishing by brush/roller/spray etc. with necessary scaffolding ; all complete in all floors and accepted by the Engineer-in-charge [PWD 16.5]	sqm	772.89	769.81	750.28	750.28
5.16.07	Chlorinated rubber paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the surface defects, smoothening the surface by putty, sand papering the surface; applying to concrete surfaces and walls in three coats by brush/roller/spray etc. upto desired finishing, elapsing specified time for drying and re-coating; with necessary scaffolding all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.6]	sqm	390.56	388.50	374.11	374.11

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.08.1	Epoxy enamel paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the surface defects, smoothening the surface by putty, sand papering the surface; applying to Interior concrete surfaces and walls in three coats by brush/roller/spray etc. upto desired finishing;elapsing specified time for drying and recoating; with necessary scaffolding all complete in all floors and accepted by the Engineerin- charge. [PWD 16.7.1]	sqm	473.81	471.75	453.25	453.25
5.16.08.2	Epoxy enamel paint of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus (if required must be treated with fungicidal solution) flaking paints, washing the surface with soap water/caustic soda, mending good the surface defects, smoothening the surface by putty, sand papering the surface; applying to Exterior concrete surfaces and walls in three coats by brush/roller/spray etc. upto desired finishing;elapsing specified time for drying and recoating; with necessary scaffolding all complete in all floors and accepted by the Engineerin- charge. [PWD 16.7.2]	sqm	464.56	462.50	445.03	445.03
5.16.09.1	Silicon based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 3 coats of silicon based water repellent on exposed brick surface/fair face surface spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge [PWD 16.8.1]	sqm	264.14	263.11	250.78	250.78
5.16.09.2	Solvent based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 3 coats of silicon based water repellent on exposed brick surface/fair face surface spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge [PWD 16.8.2]	sqm	461.47	459.42	445.03	445.03
5.16.10.1	Standard French polishing to Wooden board surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.9.1]	sqm	444.00	440.92	418.31	418.31
5.16.10.2	Premium French polishing to door and window frames, shutter and any other wooden surface by three coats over a coat of priming including putty, cleaning, finishing and polishing with sand paper etc. all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.9.2]	sqm	533.42	529.31	500.53	500.53
5.16.11	Wood varnishing of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container using brand specified thinner to door and window frame and shutter in three coats, applied with brush including cleaning oil, grease, dirt, making dry, sand papering, if required washing with weak detergent solution, stripping out the colour straps, finishing the surface, etc. all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.10.0]					
5.16.11.1	Yacht [PWD 16.10.1]	sqm	213.78	211.72	201.44	201.44

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.11.2	Egg-shell [PWD 16.10.2]	sqm	215.83	214.81	203.50	203.50
5.16.11.3	Matt [PWD 16.10.3]	sqm	216.86	214.81	204.53	204.53
5.16.12	Approved best quality and colour synthetic polyvinyl distemper delivered from authorized local agent of the manufacturer in a sealed container, applying to wall and ceiling with surface preparation including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 1 coat of interior sealer of specified brand on prepared surface; then applying 1 coat of interior putty of specified brand for levelling, spot filling, crack filling and cutting by sand paper/zero water paper; finally applying 2 coats of synthetic polyvinyl distemper spreading by brush/roller/spray & necessary scaffolding etc. upto desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.11]	sqm	218.92	217.89	207.61	207.61
5.16.13	White washing by three coats, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge. [PWD 16.12]	sqm	25.69	24.67	23.64	23.64
5.16.14	Colour wash with yellow orchard/any other colour pigment by two coats over a prime coat of white wash, lime mixture prepared at least 12 hours before use, slacking stone lime, supplying of gums, blue, stirring thoroughly, removing the floating materials from the mixer, surface cleaning to free from all foreign materials before application of each coat, applying one vertical and one horizontal wash for each coat and successive coat is to be applied after drying up of previous coat including hair brass, providing necessary scaffolding and cleaning plinth, floors, doors, windows, portions and ventilators by washing, rubbing, oiling if necessary after white wash for all floors including cost of water, electricity and other charges etc. complete in all respect in all floors and accepted by the Engineer-in-charge. [PWD 16.13]	sqm	28.78	28.78	27.75	27.75
5.16.15	Application of 02 coats of self leveling epoxy compound (3 mm thick) as base coat & finishing coat over a single layer of screet coat (primer) for making smooth floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistence, high bondibility, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/downs in floor before application with sacaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge. [PWD 16.14]	sqm	2,033.97	2,030.89	2,016.50	2,016.50

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.16	Application of 02 coats of self leveling epoxy compound (4 mm thick) as base coat & finishing coat over a single layer of screet coat (primer) for making smooth hygienic floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistence, high bondibility, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/downs in floor before application with sacaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge. [PWD 16.14.2]	sqm	2,429.67	2,426.58	2,409.11	2,409.11
5.16.17	Application of 02 coats of self leveling epoxy compound (5 mm thick) as base coat & finishing coat over a single layer of screet coat (primer) for making smooth floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistence, high bondibility, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/downs in floor before application with sacaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer-in-charge. [PWD 16.14.3]	sqm	3,340.28	3,337.19	3,316.64	3,316.64
5.16.18	Standard Doco paint with approved best quality and colour delivered from authorized local agent of the manufacturer in a sealed container, having high water resistance, high bondibility, flexibility property; using specified brand thinner applying to metallic or wooden surface by brass/roller/spray machine in 2 coats over single coat primer coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors and accepted by the Engineer-in-charge. [PWD 16.15]	sqm	2,157.31	2,154.22	2,116.19	2,116.19
5.16.19	Lacquer Polish (China or equivalent) of Standard design of wooden surface Top coat, Thinner,Clear sealer, Color pigment etc. complete from authorized local agent of the manufacturer in a sealed container, including paint spray machine etc.including surface cleaning from dust, oil or dirt, smoothening, finishing and polishing with sand paper and necessary tools, scaffolding, es etc. all complete in all floors approved and accepted by the Engineer. [PWD 16.16]	sqm	2,202.53	2,194.31	2,121.33	2,121.33
5.16.20	Providing painting at the top of the road surface as road marking in two coats with approved best quality and colour of synthetic paint from authorized local agent of the manufacturer in a sealed container having high water resistance, high bondability & flexibility, using specific brand thinner applied by brass/ roller or others over a coat of priming, providing elapsing time for drying including surface cleaning from dust, oil or dirt, smoothening, finishing necessary tools etc. all complete & approved and accepted by the Engineer-in-charge. [PWD 24.20.1]	sqm	381.31	378.22	358.69	358.69
5.16.21	Providing painting top of the road surface as road marking in two coats with approved best quality and colour of Thermo-plastic paint, approved quality of paint from authorized local agent of the manufacturer in a sealed container having highly water resistant, high bondability, flexible, using specific brand thinner applied by brass/ roller or others over a coat of priming elapsing time for drying including surface cleaning from dust, oil or dirt, smoothening, finishing necessary tools etc. all complete in approved and accepted by the Engineer. [PWD 24.20.2]	sqm	1,027.78	1,023.67	993.86	993.86

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.16.22	Supply and application of non-toxic two components acrylic polymer modified cementitious coating of minimum 1.5 mm thickness for water proofing of roof/ roof garden/ swimmimg pool which consists of powder and liquid acrylic emulsion; under a protective cover of plaster/ cement concrete/ tiles etc. as per standard specification and accepted by the Engineer-in-charge. (Rate is excluding the cost of protective cover) [PWD 17.1.1]	sqm	802.69	797.56	787.28	787.28
5.16.23	Supply and application of waterproofing treatment to roofs and terraces using three coats of acrylic based fiber reinforced elastomeric liquid water proofing membrane conforming to relevant ASTM standards product available in market. Surface preparation shall include cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus , mending the surface defects using sandpaper, filling cracks using suitable Crack Seal as necessary. First coat shall be diluted by 30% water and used as self-priming coat for the following two coats, achieving force coverage of 10sft/ltr. Incase of greater surface area, fiber mesh can be used in between the priming coat and second coat, followed by two more coats for better durability. All shall be completed as per manufacturer's specifications & recommendations and accepted by the Engineer in charge. [PWD 17.1.2]					
5.16.23.1	Rate for cover area less than or equal to 500 sqm(without glass fiber mesh) [PWD 17.1.2.1]	sqm	1,110.00	1,105.89	1,095.61	1,095.61
5.16.23.2	Rate for cover area greter than 500 sqm(with glass fiber mesh of 10 mm X 10 mm grid and weight 110 gm/sqm placed in between first two layers) [PWD 17.1.2.2]	sqm	1,237.44	1,232.31	1,221.00	1,221.00
5.16.24	Preparation and making gravel pack for roof top gardening with supply of 25 mm down graded pea gravels including sieving, washing, compacting etc. complete as per standard specification and accepted by the Engineer-in-charge. [PWD 17.2]	cum				
5.16.24.1	Ground floor [PWD 17.2]	cum	5,193.36	5,173.83	4,724.69	4,724.69
5.16.24.2	Added rate for gravel pack work in each additional floor above ground floor [PWD 17.2.1]	cum	61.67	59.61	55.50	55.50
Section 17 : False Ceiling, Wall Paneling & Acoustic Items						
5.17.01	Supplying, fitting and fixing plain Particle board ceiling (Drop/Plain) (complying unit wt 499 to 550 kg/m3, bending strength 0.35 N/mm2, max swelling 8%, moisture content not more than 10%), of 12 mm thick with best quality and well seasoned Garjan wood frame of section 50 mm x 38 mm at 600 mm x 600 mm in grid suspended from ceiling or roof or beam by 12 SWG double ply G.I. wire fixed to the ceiling by rowel plug, screws, hooks, nails etc, maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, accessories, labour for installation, electricity charge, scaffolding, screws, nails, with best quality and approved colour etc. All complete, as per drawing design and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.1.1]	sqm	2,910.67	2,853.11	2,840.78	2,840.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.02	Supplying, fitting and fixing of Melamine/ Plain gypsum/ veneered board false ceiling (Drop/Plain) laminated by mechanical hot press milk white PVC membrane, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area (Rate is excluding cost of polish/ paint etc. of any type where necessary). [PWD 18.1.2]					
5.17.02.1	12 mm thick melamine board ceiling [PWD 18.1.2.1]	sqm	2,053.50	2,048.36	2,003.14	2,003.14
5.17.02.2	8 mm thick melamine board ceiling [PWD 18.1.2.2]	sqm	1,630.06	1,624.92	1,578.67	1,578.67
5.17.02.3	9 mm thick plain gypsum board ceiling [PWD 18.1.2.3]	sqm	2,335.11	2,328.94	2,280.64	2,280.64
5.17.02.4	12 mm thick plain gypsum board ceiling [PWD 18.1.2.4]	sqm	2,416.31	2,411.17	2,361.83	2,361.83
5.17.02.5	12 mm thick veneered board ceiling [PWD 18.1.2.5]	sqm	3,230.31	3,210.78	3,101.83	3,101.83
5.17.03	Supplying, fitting & fixing of 12 mm thick BT ply board/ garjan ply board ceiling (Drop/Plain) screwed up with best quality and well seasoned 50 mm x 38 mm Garjon Wooden Frame at 600mm x 600 mm in grid suspended from ceiling roof or beam by 12 SWG double ply G.I wire fixed to the ceiling by M.S clumps, screws, hooks, nails etc. maintaining straight lines and desired finished level at bottom face including vertical strut as required, cutting holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, accessories, installation, electricity charge, scaffolding, labour for installation with and necessary hardware all complete, as per drawing design and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.1.3]					
5.17.03.1	12 mm thick BT Ply board ceiling [PWD 18.1.3.1]	sqm	3,149.11	3,101.83	3,138.83	3,138.83
5.17.03.2	12 mm thick Garjan Ply board ceiling [PWD 18.1.3.2]	sqm	2,595.14	2,547.86	2,584.86	2,584.86
5.17.04	Supplying, fitting and fixing 12 mm thick plain fire rated gypsum board ceiling (Drop/Plain) (size 1200mm x2400mm), framing by aluminium/ powder coated aluminium any colour T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including making provisions for lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. All complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.[PWD 18.1.4]	sqm	2,840.78	2,824.33	2,779.11	2,779.11

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1	2	3	4	5	6	7
5.17.05	Supplying, fitting and fixing of Perforated gypsum board false ceiling (Drop/Plain), framing by aluminium/ powder coated aluminium any colour T-bar of natural anodized finish suspended in (600 mm x 600 mm)/ (600 mm x 1200 mm) grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.[PWD 18.1.5]					
5.17.05.1	9 mm thick perforated gypsum board ceiling (600 mm x 600 mm grid) [PWD 18.1.5.1]	sqm	2,375.19	2,370.06	2,321.75	2,321.75
5.17.05.2	8 mm thick perforated gypsum board ceiling (600 mm x 600 mm grid) [PWD 18.1.5.2]	sqm	2,253.92	2,247.75	2,199.44	2,199.44
5.17.05.3	8 mm thick perforated gypsum board ceiling (600 mm x 1200 mm grid) [PWD 18.1.5.3]	sqm	2,373.14	2,368.00	2,318.67	2,318.67
5.17.06	Supplying, fitting and fixing of best quality PVC board false ceiling (Drop/Plain) of size 600 mm x 600 mm of approved design, minimumn PVC content of 35%, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement,also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. [PWD 18.1.6]					
5.17.06.1	6 mm thick PVC board false ceiling [PWD 18.1.6.1]	sqm	2,559.17	2,538.61	2,491.33	2,491.33
5.17.06.2	8 mm thick PVC board ceiling [PWD 18.1.6.2]	sqm	2,694.83	2,674.28	2,627.00	2,627.00
5.17.07	Supplying, fitting and fixing of 0.6 mm thick best quality solid aluminium metal board false ceiling (drop/ plain) of size 600 mm x 600 mm, powder coated of approved design, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. [PWD 18.1.7]	sqm	3,331.03	3,314.58	3,276.56	3,276.56

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.08	Supplying, fitting and fixing of 0.6 mm thick best quality perforated aluminium metal board (including tissue/ fabric) false ceiling (Drop/Plain) of size 600 mm x 600 mm, powder coated of approved design, inner side is coverd by black tissue/ fabric to protect the hole from air circulation, framing by aluminium/ powder coated aluminium T-bar of any colour and of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement,also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. [PWD 18.1.8]	sqm	3,018.58	3,003.17	2,965.14	2,965.14
5.17.09	Supplying, fitting & fixing of designed seamless false ceiling (Drop/Plain) with 6 mm thick fiber cement board, framing by furring channel (38mm x 12.5 mm x 0.5 mm) G. I. angle (19 mm x 19 mm x 0.5 mm) suspended in 600 mm x 600 mm grid from ceiling using G.I fitting angle, locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.1.9]	sqm	3,504.72	3,483.14	3,422.50	3,422.50
5.17.10	Supplying, fitting and fixing 12 mm thick burma teak (BT) veneered board/ ply board/ particle board in walling with best quality and well seasoned garjan wood frame of section of 50 mm x 25 mm at 600 mm x 600 mm in grid, including grove where necessary, fitted and fixed to wall by plugs, nails, screws etc. maintaining leveled and finished exposed faces including. making holes in wall and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. All complete as per design, approved sample and accepted by the Engineer-in-charge. All sizes of wood are finished. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.2.1]					
5.17.10.1	12 mm thick Myanmar(Burma) teak (BT) veneered board in walling [PWD 18.2.1.1]	sqm	2,796.58	2,763.69	2,741.08	2,741.08
5.17.10.2	12 mm thick BT ply board walling [PWD 18.2.1.2]	sqm	3,184.06	3,173.78	3,116.22	3,116.22
5.17.10.3	12 mm thick particle board walling [PWD 18.2.1.3]	sqm	2,412.19	2,372.11	2,340.25	2,340.25
5.17.11	Supply fitting and fixing of 0.8 mm HPL sheet lamination (one surface only) over 12mm thick MDF board wall panneling with best quality and well seasoned garjan wood frame of section 38 mm x 38mm at 600mmx 600mm in grid, including grove where necessary, fitted and fixed to wall by royal plugs, nails, screws etc. maintaining leveled and finished exposed faces including. making holes in wall and mending good the damages, if any during execution of the work, including the provisions of lighting arrangement, also including cost and carriage of all materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. All complete as per design, approved sample and accepted by the Engineer-in-charge. (All sizes of wood are finished). All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. [PWD 18.2.2]	sqm	4,444.11	4,403.00	4,356.75	4,356.75

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.12	Supplying, fitting and fixing best quality wall paper along with 12 mm thick PVC solid board in walling with furring chanel frame (38mm x 12.5 mm x 0.5 mm) at 600 mm x 600 mm in grid, including grove where necessary, fitted and fixed to wall by plugs, nails, screws etc. including treatment of inner surface with termite and damp proofing agent maintaining leveled and finished exposed faces including making holes in wall and mending good the damages, if any during execution of the work, also including cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge. [PWD 18.3.1]	sqm	3,573.58	3,570.50	3,560.22	3,560.22
5.17.13	Supplying, fitting and fixing best quality wall paper on finished plaster surface including wall preparation cost and carriage of wall paper and other materials, electricity, accessories, labour for installation, scaffolding, screws, nails etc. all complete as per design, approved and accepted by the Engineer-in-charge. [PWD 18.3.2]	sqm	1,175.78	1,171.67	1,165.50	1,165.50
5.17.14	Supplying, fitting and fixing of wooden louver in ceiling made of 12 mm Burma teak (BT) ply board, louver of any size and spacing framing with MS "U" bar/ channel, fixed to the ceiling by thread rod, nails, plugs, screws maintaining parallel louver with straight line/ desired finishing level at bottom face, necessary hardwares, including making holes in slabs and/ beams by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.1]	sqm	7,378.42	7,372.25	7,357.86	7,357.86
5.17.15	Supplying fitting and fixing Ornamental design Louver in Ceiling with 18mm Burma Teak (BT) Veneer board fitted in drop Ceiling with garjan wood framing of size 50 mm x 50mm and 50 mm x 25 mm and with 50 mm ctg. teak wood as longitudinal rib, 18mm BT Veneerd board as cross rib of any spacing the design louver fixed in drop ceiling wall by plugs, nails, screws, gum, etc. maintaining leveled and finished exposed faces including, 18mm PVC edging, making holes in wall including provisions for lighting arrangement and mending good the damages, if any, during execution of the work including all materials electricity, accessories, labour for installation, Scafolding, etc. as per drawing design & approved sample and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.2]	sqm	9,454.53	9,268.50	9,611.78	9,611.78
5.17.16	Supplying fitting and fixing of M.S. fixed louver made of 25mm x 25mm x 5mm M.S. Angle as outer frame, 2mm thick 25mm x 18mm MS sheet box section at 75mm c/c as internal horizontal member fixing with outer frame including scafolding, royal bolt, anchoring, welding, grinding, welder, helper and all accessories complete in all respect as per drawing and accepted by the Engineer-in-charge. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.3]	sqm	8,820.39	8,820.39	8,820.39	8,820.39

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.17	Supplyig fitting fixing of louver wall panel made of 18 mm Burma teak (BT) veneered board of any size, including garjan wood frame of section 50 mm x 38mm at 250 mm specing, fitted & fixed to wall by nails, iron screw, 38mm brass screw, gum, glue etc., maintaining vertical paralal louver and finished exposed faces, including making holes in walls and mending good the damages, if any during execution of the work, including provisions for lighting arrangement, in/c groove cutting of any size, also including cost of carriage of all materials, electricity, accessories, labour of instalation, scafolding etc. all complete as per design, approved sample and excepted by the Engineer -in- charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.4]	sqm	6,914.89	6,872.75	6,911.81	6,911.81
5.17.18	Supplyig fitting fixing of louver wall panel made of 18 mm Burma teak (BT) veneered board of any size, including garjan wood frame of section 50 mm x 38 mm at 250 mm spacing, fitted & fixed to wall by nails, iron screw, 38mm brass screw, gum, glue etc., maintaining vertical paralal louver and finished exposed faces, including making holes in walls and mending good the damages, if any during execution of the work, including provisions for lighting arrangement, in/c groove cutting of any size, also including cost of carriage of all materials, electricity, accessories, labour of instalation, scafolding, including CNC jali cutting and boxes, punch, grooving, ornamental bit or any type of special design of walling as per architectural requierment etc. all complete as per design, approved sample and excepted by the Engineer -in- charge. Measurement will be taken as per finished surface area. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.5]	sqm	8,001.25	7,959.11	7,998.17	7,998.17
5.17.19	Supplying fitting and fixing of fixed glass louver with Aluminium hollow box as per the U.s Architectural Aluminium Fanufactures Association (AAMA) Standard specification having 1.20 mm thick wall frame (size 100 mm x 25mm) and 10mm thick, 100 mm wide tempered glass louver section inner inclined glass louver section fixed with above mentioned frame and all aluminium members will be anodized to aluminium of any colour with a coat not less than 15 micron in thickness and density of 4mg per square cm etc. including all accessories, neoprene, sealant, nuts and bolts etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. [PWD 18.4.6]	sqm	16,855.56	16,849.39	16,824.72	16,824.72
5.17.20	Supplying fitting and fixing double leaf silding SS lovuer door shutter made with 16 BWG thick 50mm x 38mm SS hollow box as outer frame, 18 BWG thick 50mm x 12mm SS hollow box as louver with 18 BWG thick 38mm x38mm SS V Channel for bottom rail, 25mm dia SS solid bar, 18 BWG thick 62mm x 38mm SS U channel as top rail, 450 mm long 25mm dia SS handle, 75 mm SS wheel, 50 mm x 50 mm size 3 mm thick plate for locking arrangement with pad lock including grooving, making hole all necessary accesories and accepted by the Engineering -in-charge. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.7]	sqm	26,389.22	26,384.08	26,345.03	26,345.03
5.17.21	Supplying, fitting and fixing of Aluminium fins fixed vertically BDS 1879 : 2014 having 1.2 mm thick wall frame (Size 125mmx 50mm box section @ 75 mm c/c), fitted with 3 nos horizontal M.S. Angle (20 mm x 20 mm x 3 mm) will be anodized to aluminium of any colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories, rawl bolt,55 mm M6 royal bolt,screws, washer etc all complete and accepted by engineer in charge. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.4.8]	sqm	21,678.92	21,674.81	21,658.36	21,658.36

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.22	Supply and making wooden skirting with well matured seasond wood including necessary moulding with garjan wood frame of 50mm x 38mm, groove with proper corner, finishing as per design, fitting and fixing in position by using all necessary accessories, royal plugs, screws, including making holes by electric drill machine and mending good the damages, if any during execution of the work, also including cost of all materials, electricity, labour for installation in all floors etc. all complete as per drawing, design and accepted by the Engineer-in-charge. All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.5.1]					
5.17.22.1	12 mm thick Myanmar(Burma) Teak Wooden skirting [PWD 18.5.1.1]	sqm	5,652.78	5,563.36	5,636.33	5,636.33
5.17.22.2	12 mm thick Ctg. Teak. Wooden skirting [PWD 18.5.1.2]	sqm	4,286.86	4,197.44	4,312.56	4,312.56
5.17.23	Supply and making 25 mm thick wooden Design bit/ Moulding with well matured seasond wood including necessary moulding/ groove with proper corner, finishing as per design, fitting and fixing in position by using all necessary accessories in all floors etc all complete and accepted by engineer in charge. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.5.2]					
5.17.23.1	Myanmar(Burma) Teak wooden Design bit/ Moulding [PWD 18.5.2.1]	sqm	16,980.94	16,766.14	16,426.97	16,426.97
5.17.23.2	Ctg Teak wooden Design bit/Moulding [PWD 18.5.2.2]	sqm	11,553.25	11,361.06	11,294.25	11,294.25
5.17.24	Supplying, fitting and fixing Wall Almirah with one side attires cabinet including locker and another side shelf of Depth-1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50"X2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.25" x 1.25" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18mm garjan Ply board, 2 nos standard handle for shutter & 3 nos standard lock for shutter and drawer, 25mm SS pipe 1.5 mm thick and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.6.1]					
5.17.24.1	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Veneered board [PWD 18.6.1.1]	sqm	18,836.08	18,656.22	19,042.67	19,042.67
5.17.24.2	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T ply board [PWD 18.6.1.2]	sqm	20,343.83	20,163.97	20,549.39	20,549.39
5.17.24.3	Wall Almirah with one side attire cabinet including locker and another side shelf made of 18 mm B.T Marine ply board [PWD 18.6.1.3]	sqm	22,282.22	22,102.36	22,487.78	22,487.78
5.17.25	Supplying, fitting and fixing Wall Almirah with one side drawer and Another side shelf of Depth-1'-8" made by 18 mm B.T Veneered/ B.T. ply/ B.T marine ply board on 2.50"X2.50" (Finished) Ctg. Teak Wooden Outer Frame, 1.50" x 1.50" (Finished) Ctg. Teak wooden frame for shelf, 1.5" x 1.5" (Finished) Ctg. Teak wooden edge bit around the shutter, backside covered by the 18mm garjan Ply board, 2 nos standard handle for shutter & 4 nos standard lock for shutter and drawer, and including all necessary accessories for fitting & fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.6.2]					
5.17.25.1	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T Veneered board [PWD 18.6.2.1]	sqm	28,984.36	28,700.69	29,395.47	29,395.47
5.17.25.2	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T ply board [PWD 18.6.2.2]	sqm	32,183.83	31,901.19	32,594.94	32,594.94
5.17.25.3	Wall Almirah with one side drawer and Another side shelf made of 18 mm B.T Marine ply board [PWD 18.6.2.3]	sqm	36,297.00	36,014.36	36,709.14	36,709.14

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.26	Supplying, fitting and fixing 25mm Ctg. Teak wooden Cabinet of size 8'-0" x4'-9" x1'-8" (finished), 18mm BT veneered/ BT ply/ BT marine ply board for shelf, 3" (Finished) Ctg. Teak wood moulding bit at bottom, and 1" moulding bit at top and middle, backside covered by the 18mm garjan Ply board, 12 nos standard handle for shutter & 6 nos standared lock, and including screw, SS chain hinge, nails, gums etc. and all necessary accessories for fitting and fixing all complete and accepted by the engineer-in-charge. All Ctg. teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.6.3]					
5.17.26.1	wooden Cabinet with B.T. veneered board shutter [PWD 18.6.3.1]	sqm	24,672.83	24,341.89	25,192.89	25,192.89
5.17.26.2	wooden Cabinet with B.T. ply board shutter [PWD 18.6.3.2]	sqm	25,581.39	25,249.42	26,100.42	26,100.42
5.17.26.3	wooden Cabinet with B.T. marine ply shutter [PWD 18.6.3.3]	sqm	26,747.92	26,416.97	27,267.97	27,267.97
5.17.27	Supplying, fitting and fixing Kitchen Cabinet (Below Counter) Depth-1'-8" made by 18 mm B.T Veneered board/ B.T. ply board/ B.T. Marine ply board/ HPL board on 2"X1.5" (Finished) Ctg. Teak Wooden Frame, making 1" x 1" (Finished) Ctg. Teak edge bit around the shutter and Shelf made of 12mm laminated vinyle board including all necessary accessories for fitting & fixing all complete as per design and the direction of the engineer-in-charge. All Ctg.teak wood frames must be protected from termites, cockroach and other insects. (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.6.4]					
5.17.27.1	Kitchen Cabinet (Below Counter) made by 18 mm B.T Veneered board [PWD 18.6.4.1]	sqm	11,466.92	11,367.22	11,423.75	11,423.75
5.17.27.2	Kitchen Cabinet (Below Counter) made by 18 mm B.T Ply board [PWD 18.6.4.2]	sqm	12,097.97	11,998.28	12,054.81	12,054.81
5.17.27.3	Kitchen Cabinet (Below Counter) made by 18 mm B.T Marine Ply board [PWD 18.6.4.3]	sqm	12,908.89	12,809.19	12,865.72	12,865.72
5.17.27.4	Kitchen Cabinet (Below Counter) made by 18 mm HPL board [PWD 18.6.4.4]	sqm	16,244.03	16,144.33	16,200.86	16,200.86
5.17.28	Supplying, fitting and fixing of tufted, textured loop/ cut and loop piled or similar Poly-Propylene (PP) fiber carpet tiles of custom color and any pattern interface/ carpet Inter/ equivalent 50 cm x 50 cm or any approved size, with 5 mm to 8 mm thickness (Made in Thailand/ China/ India/ Malayasia or equivalent quality product), of type 6.6 nylon Stain Repel / Stain Resist /soil protection property, including antimicrobial protection and finished pile height of 3 mm to 4 mm, with recycled glass/ cushion backing with synthetic binder and with flammability property of radiant panel (ASTM E 648), fixing with adhesives including cutting, placing in proper level etc. all complete in all respect as finish schedule, drawing and direction of Engineer-in-Charge. [PWD 18.7.1]	sqm	6,051.56	6,050.53	6,048.47	6,048.47
5.17.29	Supply, Delivery and installation of Imported Fire retardant Wood Acoustic Panel (WAP) in walling WAP should be 15mm thick x 128mm high x 2440mm long made from Pine Wood granules, Grooved and perforated as per selected pattern and color (in melamine coated finish) including Non-Woven fabric inlay having of NRC >0.75, the black non-woven fabric inlay, Galvanized steel keels & clips. Panels will be fixed on 50 mm x 25mm Garjan wooden frame spacing 750 mm to 800 mm as per drawing, approved architectural and acoustic design (NRC > 0.75) and accepted by the Engineer in charge.(Made in Thailand/ China/ India/ Malayasia or equivalent quality product). All Garjan wood frames must be protected from termites, cockroach and other insects. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.1]	sqm	9,099.94	9,057.81	9,040.33	9,040.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.30	Supply, Delivery and Installation Custom Size Fabric Wrapped Acoustic Panel (FWAP) in walling as per design, made with peripheral of 12mm Thick Commercial Veneer / MDF Boards of 50 mm height with back side of 5mm thick Garjan Plyboard and filled with 50mm thick 100% Polyester insulation / Fiberglass Insulation of NRC > 0.75. (Made in Thailand/ China/ India/ Malayasia or equivalent quality product). Wrapped fabric must be at least 600 -700 GSM in order to achieve desired Acoustic performance all complete as per drawing and architectural and acoustic design (NRC > 0.75) and accepted by the Engineer-in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.2]	sqm	4,034.03	4,024.78	3,968.25	3,968.25
5.17.31	Supplying ,fitting and fixing of ACOUSTIC WALLING by 12mm thick B.T veneer board with best quality well seasoned garjan frame of section 50 mm x 38 mm at 600mm x 600 mm in grid, all Garjan wood frames must be protected from termites, cockroach and other insects, fitted and fixed to wall by plugs, nails, screws, gums, etc. all necessary accessories, including 50 mm imported GLASSWOOL (density 16-20 kg/m3) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product), heat, sound and noise reduction quality, made of grade A1 incombustible materials with one side aluminium foil quoted/ pasted) is attached with garjan frame with black/ grey airtight fabric cloth bearded & jute hessian, cloth, garments jut including making required number and sizes holes/ groove in B.T. veneered board, scaffolding, mending good the damages, fitting and fixing as per architectrual and acoustic design (NRC 0.60-0.75), etc. all complete as per design, approved sample & accepted by the Engineer-in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). (This item is for Hall room/ conference room/ meeting room or similar purpose uses.) [PWD 18.7.2.3]	sqm	9,142.08	9,077.33	9,085.56	9,085.56
5.17.32	Supplying, fitting and fixing of 15mm thick Standard Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with high quality MDF Board with finished top Melamine/Natural wooden veneer/HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133mmx2440mm to 197mm x2440mm, tongue and groove edge. Echo should be E1 standard, Density 750-800 kg/m3, perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50mm x 38mm size @ 600mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m3) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with air tight fabric cover in/c heat stiching etc all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.4]	sqm	12,651.94	12,580.00	12,626.25	12,626.25

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.33	Supplying, fitting and fixing of 15mm thick Moisture proof Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malaysia or equivalent quality product) with high quality MDF Board with finished top Melamine/Natural wooden veneer/HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133mmx2440mm to 197mm x2440mm, tongue and groove edge. Echo should be E1 standard, Density 750-800 kg/m3, perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50mm x 38mm size @ 600mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m3) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with air tight fabric cover in/c heat stiching etc all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.5]	sqm	12,965.42	12,893.47	12,939.72	12,939.72
5.17.34	Supplying, fitting and fixing of 15mm thick Fire Retardant Acoustic panel for walling work for straight/curve area (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with high quality MDF Board with finished top Melamine/Natural wooden veneer/HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 133mmx2440mm to 197mm x2440mm, tongue and groove edge. Panel materials should be incombustible, Echo should be E1 standard, Density 750-800 kg/m3, perforation range 7.5%-12.8%, NRC value 0.75-0.90, including substructure of garjan wooden framing 50mm x 38mm size @ 600mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m3) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with air tight fabric cover in/c heat stiching etc all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp-proof. (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.6]	sqm	13,121.64	13,049.69	13,096.97	13,096.97
5.17.35	Supplying, fitting and fixing of 15mm thick Perforated/Micro perforated wooden acoustic panel for walling work, Straight/ Curve (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with high quality MDF Board with finished top Melamine/Natural Wooden veneer/ Technology veneer/HPL or any other customized texture or colour finish with sound absorbing, fire proof back felt fabric, board size 1200mm x2400mm of incombustible material, Echo should be E1 standard, density 750-800 kg/m3, Perforation range 12%-13% (normal) / 1%-6.5% (micro), NRC value 0.75-0.90 including substructure of garjan wooden framing 50mm x 38mm size @ 600mm grid both way; all Garjan wood frames must be protected from termites, cockroach and other insects, backing with acoustic lining materials of 50 mm thick Glass wool (density 16-20 kg/m3) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with air tight fabric cover in/c heat stiching etc all complete as per approved drawing and architectural and acoustic design (NRC 0.75-0.90) and accepted by the Engineer in-charge. The brick/ RCC surface shall be dry and damp-proof. (This item is for Auditorium/ convention hall or similar purpose uses.) (Rate is excluding cost of polish/ paint etc. of any type if necessary). [PWD 18.7.2.7]	sqm	12,808.17	12,736.22	12,783.50	12,783.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.36.1	Supplying, fitting and fixing of 15 mm thick Fire Retardent, heat Insulated, Acoustic Mineral fiber board (any colour) ceiling (drop/ plain/ straight/ curve) (Made in Thailand/ China/ India/ Malayasia or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti bacterial, humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.60- 0.90, density-290-315 kg/m3, size of board: 600mm x 600mm, of imcombustible materials, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling using butterfly hanger with adjustable clip/ locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, rivet etc. all complete as per drawing, architectural and acoustic design (NRC 0.6-0.9) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.7.3.1]	sqm	2,226.17	2,213.83	2,185.06	2,185.06
5.17.36.2	Supplying, fitting and fixing of 15 mm thick Fire retardent, heat Insulated, Acoustic Mineral fiber board ceiling, (drop/ plain/ straight/ curve) (Made in UK/Germany/ Italy/ France or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.60- 0.90, density-290-315 kg/m3, size of board: 600mm x 600mm, of imcombustible materials, framing by aluminium T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling using butterfly hanger with adjustable clip/ locking clips etc. including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, rivet etc. all complete as per drawing, architectural and acoustic design (NRC 0.6-0.9) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.7.3.2]	sqm	4,506.81	4,494.47	4,465.69	4,465.69
5.17.36.3	Supplying, fitting and fixing of 20mm thick Mineral Fiber Acoustic ceiling, (drop/ plain/ straight/ curve) (Made in UK/Germany/ Italy/ France or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.90 -1.00, medium density, size of board: 600mm x 600mm, fire rating B1 standard, framing with 600mm x 600 mm grid suspended from ceiling using screw, nut, adjustable hanger hook, anchor, T-Grid, Wall angle, Main runner, thread rod, 38mm carrier bracket, connector, sleeve anchor, suspension bracket etc. all complete as per drawing, architectural and acoustic design (NRC 0.9-1.0) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof.(This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.7.3.3]	sqm	10,204.81	10,182.19	10,147.25	10,147.25

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.17.36.4	Supplying, fitting and fixing of 20mm thick Mineral Fiber Acoustic ceiling, (drop/ plain/ straight/ curve) (Made in China/Malaysia/Thailand/India or equivalent quality product) with high grade mineral wool, surface finish with white ultra vinyl latex paint, surface treatment-film coating, anti-fungal & anti bacterial humidity resistant greater than 90%, light reflectivity more than 90%, NRC value 0.90 -1.00, medium density, size of board: 600mm x 600mm, fire rating B1 standard, framing with 600mm x 600 mm grid suspended from ceiling using T-Grid, Wall angle, Main runner, 38mm carrier bracket, adjustable hanger hook, thread rod, anchor, screw, nut, connector, sleeve anchor, suspension bracket etc. all complete as per drawing architectural and acoustic design (NRC 0.9-1.0) and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof.(This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.7.3.4]	sqm	6,518.17	6,494.53	6,460.61	6,460.61
5.17.37	Supplying, fitting and fixing of Ply board C-section or box type work on wall/Ceiling. Using C-section of 150mm x 200mm x 150mm or any size of thickness 18mm with facing 50mm, in/c substruction of garjan wooden framing (50mm x 38mm @600mm c/c) and screwed, for additional load suppport in/c special made full thread 8mm dia rod fixed to the ceiling or roof or beam by rowel bolt, all complete as per drawing, design and accepted by the Engineer-in-charge. All Garjan wood frames must be protected from termites, cockroach and other insects. Measurement will be taken as per finished surface area. The brick/ RCC surface shall be dry and damp-proof. (This item is for acoustic work in auditorium, Hall Room, Seminar Room etc.) (Rate is excluding cost of polish/ paint etc. of any type). [PWD 18.7.4]	sqm	5,632.22	5,520.19	5,643.53	5,643.53
5.17.38	Additional Rate of scaffolding for walling or ceiling work (from Item no. 18.1 to 18.7) [PWD 18.8]					
5.17.38.1	From 4m up to 6 m [PWD 18.8.1]	sqm	135.67	135.67	135.67	135.67
5.17.38.2	Beyond 6m to above height [PWD 18.8.2]	sqm	271.33	271.33	271.33	271.33
5.17.39	Supplying, fitting, fixing CNC Cutted facade work made of 5 mm(+-3%) thick MS Plate, pre-treated & painted with industrial paint/ powder coated glossy paint (thickness not less than 70 micron) covered by water colour weather proof paint, supported by 50mm x 50 mm x 5mm MS angle at Top & Side of outer frame according to drawing & design, fitted and fixed in wall/ RCC members with necessary number of clamps, intermediate struts, royal bolt with epoxy. Segments of MS plate will be smoothly joined by rivets or welding, aligned and levelled. Cost is inclusive electricity, workshop charges, loading - unloading, lifting, carrying and placing to the required place & position etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge.(Upto a height of 20m) [PWD 18.9]	sqm	8,188.31	8,184.19	8,156.44	8,156.44
5.17.40	Additional Rate of scaffolding for CNC Cutted facade work [PWD 18.10]					
5.17.40.1	Above 20m and upto 30m [PWD 18.10.1]	sqm	135.67	135.67	135.67	135.67
5.17.40.2	Beyound 30m [PWD 18.10.2]	sqm	271.33	271.33	271.33	271.33
5.17.41	Supplying, fitting & fixing of plastic wood paneling in false ceiling with 6 mm sheet, weighing 3.85 kg/sqm, fitting and mending good the damages, carries etc complete in all respect and accepted by the Engineer-in-charge. [PWD 22.20]	sqm	1,491.31	1,485.14	1,436.83	1,436.83

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section 18 : Collapsible Gate, M.S. Gate, Rolling Shutter Etc.						
5.18.01	Manufacturing, supplying, fitting and fixing S.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm S.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, both end carriage, including polishing, greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge .[PWD 19.1.1]					
5.18.01.1	for S.S. Grade A304 [PWD 19.1.1.1]	sqm	19,898.81	19,880.31	19,752.86	19,752.86
5.18.01.2	for S.S. Grade A201 [PWD 19.1.1.2]	sqm	15,861.69	15,843.19	15,714.72	15,714.72
5.18.02	Manufacturing, supplying, fitting and fixing S.S. collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm S.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm S.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different S.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm S.S. tee rail made by welding 2 nos. 50 mm x 6 mm S.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm S.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, both end carriage, including polishing, greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge. [PWD 19.1.2]					
5.18.02.1	for S.S. Grade A304 [PWD 19.1.2.1]	sqm	16,609.92	16,592.44	16,463.97	16,463.97
5.18.02.2	for S.S. Grade A201 [PWD 19.1.2.2]	sqm	13,071.28	13,052.78	12,924.31	12,924.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.18.03	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 25 mm x 25 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 25 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) Nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/ roof slab, floors and side wall with required nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 19.1.3]	sqm	6,164.61	6,145.08	6,007.36	6,007.36
5.18.04	Manufacturing, supplying, fitting and fixing M.S. collapsible gate of any design and shape made of 20 mm x 20 mm x 3 mm M.S. angle placed @ 112 mm c/c vertically and connecting the same with each other by 20 mm x 3 mm M.S flat bar scissors 525 mm, 600 mm long provided in 3 rows including cutting the different M.S. members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable locking arrangement, electrodes, grease and finally placing the same in position in between 2 (two) nos. 50 mm x 50 mm x 6 mm M.S. tee rail made by welding 2 nos. 50 mm x 6 mm M.S. flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required Nos. 150 mm to 225 mm long 38 mm x 6 mm M.S. flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in C.C. at the respective point including cutting holes and mending good the damages by pouring concrete (1:2:4) into the holes and finishing, etc. complete, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting, both end carriage, including greasing, electrodes, curing etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint). [PWD 19.1.4]	sqm	5,331.08	5,311.56	5,173.83	5,173.83
5.18.05	Supplying, fitting, fixing, and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. Angle outer frame having 16 mm dia M.S. rod placed vertically @ 75 mm c/c. at bottom part and top part (200 mm long arrows) and also placed horizontally at bottom for interconnection of 16 mm dia M.S. rod placed vertically as per design, the top part covered with 18 BWG M.S. sheet and fixed with 4 nos. 38 mm x 6 mm F.I. bars placed diagonally and 4 Nos. 38 mm x 6 mm F.I. bars placed horizontally and vertically all passing through the center, providing locking arrangements on 3 mm thick M.S. plate one for main gate and one for minimum 600 mm x 1025 mm pocket gate with 38 mm x 38 mm x 6 mm M.S. angle and 16 mm dia M.S. rod placed vertically @ 75 mm c/c, providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint). [PWD 19.2.1]	sqm	6,882.00	6,860.42	6,705.22	6,705.22

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.18.06	Manufacturing, supplying and fitting-fixing security door with 25 mm dia M.S. rod and outer frame with 50 mm x 50 mm x 6 mm M.S. angle including locking arrangement as per approved design and drawing providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint). [PWD 19.2.2]	sqm	13,680.75	13,624.22	13,303.56	13,303.56
5.18.07	Supplying, fitting, fixing, and installation of ordinary type M.S. security gate of any design and shape with 50 mm x 50 mm x 6 mm M.S. angle outer frame and 02 (two) 50 mm x 50 mm x 6 mm angle placed diagonally having 22 mm dia M.S. rod placed vertically @ 115 mm c/c. and also 38 mm x 6 mm F.I bar placed horizontally, the bottom part covered with 3 mm thick M.S. plate providing locking arrangements on 3 mm thick M.S. plate providing heavy type clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including fabrication, riveting, welding as and where necessary, painting 2 (two) coats with approved best quality synthetic enamel paint over a coat of anticorrosive painting etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint). [PWD 19.3]	sqm	8,584.00	8,566.53	8,427.78	8,427.78
5.18.08	Supplying, fitting, fixing and installation of ordinary type M.S. gate (double leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. angle box (made by welding 2 nos. 38 mm x 38 mm x 6 mm angle) outer frame having 25 mm x 50 mm x 25 mm x 5 mm M.S. channel (made by welding 2 nos. of channel) placed part diagonally after cutting and shaping as per requirement, part horizontally @ 75 mm c/c, the two part of each leaf being separated by a vertical member of 38 mm x 38 mm x 6 mm M.S. box and welded the each ends of diagonal and horizontal members properly with the box frame as per architectural drawing providing full locking arrangement on 3 mm thick M.S. plates providing 38 mm x 38 mm x 6 mm M.S. angle clamps, fitting fixing with the outer frame of the gate, the clamp being embedded in R.C.C. pillars with cement concrete (1:2:4) including. cutting holes and mending good the damages, finishing, curing and where necessary painting two coats with approved quality of synthetic enamel paint over a coat of priming of anticorrosive paint etc. all complete including making and providing 50 mm x 6 mm M.S. rail and 38 mm wheel for smooth movement of the gate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint). [PWD 19.4]	sqm	9,148.25	9,130.78	8,999.22	8,999.22

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.18.09	Manufacturing, supplying, fitting and fixing G.I. pipe gate of any design and shape having 38 mm dia G.I. pipe outer frame and 19 mm dia. G.I. pipe vertical member placed @ 75 mm c/c by welding at top and bottom of G.I. pipe frame, cutting the pipes in proper shape and size including making semicircular band at the corners of the outer frame without damaging the pipe, covering 50% of the gate area with 18 BWG M.S. sheet, providing also two extra horizontal 38 mm dia G.I. pipes welded with vertical post, providing 6 nos. huskle domney with R.C.C. or R.C.C core pillar with cement concrete (1:2:4) in masonry including cutting holes, mending good the damages, making provision for minimum 0.61 m x 1.4 m pocket gate having its outer frame and inner vertical members made with 19 mm dia G.I. pipe including necessary locking arrangements. Painting the gate with 2 (two) coats of synthetic enamel paint over a coat of anti-corrosive priming, welding as and where necessary including necessary locking arrangement and providing 2 Nos. 16 mm M.S. socket bolts etc. all complete as per design and drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 19.5]	sqm	10,352.81	10,337.39	10,221.25	10,221.25
5.18.10	Supplying, fitting and fixing of rolling shutter of any design and shape made of 24 SWG G.P. sheet unit minimum 69 mm width having 10 mm and 12 mm dia circular folding at ends, rolled in machine, locked together properly to form rolling shutter, top of the shutter to be fitted with circular spring box made of 26 BWG sheet, containing best quality spring made in China, nutted with 38 mm G.I. pipe at one end and the other end nutted to shutter including fitting the G.I. pipe again with 375 mm x 300 mm x 6 mm pankha at ends with side guide channel (side channel consist of 50 mm x 100 mm x 6 mm M.S. plate with 2 mm x 19 mm x 3 mm F.I. bar, middle channel consist of 2 mm x 150 mm x 6 mm M.S. plate with 2 mm x19 mm x 6 mm fixed to wall or column with clamps embedded in R.C.C. part by cement concrete (1:2:4) including cutting holes (minimum 3 mm x 25 mm x 6 mm) mending the damages, finishing, curing, bottom end of shutter fitted to folded G.P. sheet (min 125 mm width in two layers), which is again fitted to 25 mm x 25 mm x 3 mm angle, providing handle with F.I. bar 25 mm x 6 mm and locking arrangement in both sides, painting two coats with approved colour and brand of synthetic enamel paint over a coat of priming etc. complete in all respect accepted by the Engineer-in-charge. [Rate is excluding the cost of painting] [PWD 19.6]	sqm	6,598.33	6,578.81	6,464.72	6,464.72
5.18.11	Manufacturing, supplying, fitting, fixing of ordinary type M.S. folding gate with 12mm x 12mm MS square solid bar and 25 mm x 25mm x 6 mm MS angle box frame and two nos outer side fixed box post made with 40 mm x 40 mm x 6 mm angle at both ends attached to column/wall side including locking arrangement providing 38 mm x 38 mm x 6 mm M.S. angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or R.C.C. core pillar with cement concrete (1:2:4) in masonry including cutting holes and mending good the damages, finishing, curing etc. including riveting, welding as and where necessary, painting two coats with approved quality of synthetic enamel paint over a coat of priming of anti-corrosive paint etc. all complete as per drawing, design and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint) [PWD 19.7]	sqm	5,796.67	5,776.11	5,650.72	5,650.72

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.18.12	Manufacturing, supplying, fitting and fixing SS folding gate of any design and shape made of 37 mm x 1.5 mm round pipe section as vertical section spacing 450 mm c/c, 25 x 25 x1.5 mm box section criss-cross connected with vertical section through 12 mm solid pipe section, 12 mm x 38 mm x 1.5 mm rectangular SS section fitted & fixed vertically & connected through 12 mm solid pipe section with vertical section, placing required number of SS wheel, SS Handle, SS Locking clamp etc, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge. [PWD 19.8]					
5.18.12.1	for S.S. Grade A304 [PWD 19.8.1]	sqm	17,553.42	17,539.03	17,417.75	17,417.75
5.18.12.2	for S.S. Grade A201 [PWD 19.8.2]	sqm	15,384.81	15,370.42	15,248.11	15,248.11
5.18.13	Manufacturing, supplying, fitting and fixing SS Swing front gate of any design and shape made of 50 mm x 50mm x 1.5 mm S.S. box section as outer frame, 37mm x 37mm x 1.5 mm SS box section as vertical section @ 100 mm c/c fitted with outer frame, 25 mm x 25 mm x 1.5 mm SS box section as horizontal section , 37 mm x 1.5 mm SS round section fitted with vertical outer section for SS lettering, 25 mm dia SS solid round pipe, placing required number of solid hinges, SS wheel, SS locking arrangement, hasp bolt, tower bolt etc, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge . [PWD 19.9]					
5.18.13.1	for S.S. Grade A304 [PWD 19.9.1]	sqm	18,660.33	18,646.97	18,539.06	18,539.06
5.18.13.2	for S.S. Grade A201 [PWD 19.9.2]	sqm	14,921.28	14,907.92	14,800.00	14,800.00
5.18.14	Manufacturing, supplying, fitting and fixing SS Sliding front gate of any design and shape made of 50 mm x 50mm x 1.5 mm S.S. box section as outer frame, 37mm x 37mm x 1.5 mm SS box section as vertical section @ 100 mm c/c fitted with outer frame, 25 mm x 25 mm x 1.5 mm SS box section as horizontal section , 37 mm x 1.5 mm SS round section fitted with vertical outer section for SS lettering, 25 mm dia SS solid round pipe & 3mm SS channel (62 mm x 62 mm) placed at bottom & top respectively, placing required number of solid hinges, SS wheel, SS locking arrangement, hasp bolt, tower bolt etc, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge . [PWD 19.10]					
5.18.14.1	for S.S. Grade A304 [PWD 19.10.1]	sqm	19,015.94	19,003.61	18,894.67	18,894.67
5.18.14.2	for S.S. Grade A201 [PWD 19.10.2]	sqm	15,276.89	15,264.56	15,156.64	15,156.64
5.18.15	Manufacturing, supplying, fitting and fixing double leaf SS Main gate made with 2mm thick 75mm x 75mm ss hollow box as outer frame, 1.5 mm thick 50mm X 25mm ss hollow box as inner frame with 1.5 mm thick, 19 mm x 19 mm SS hollow box for fencing @75mm c/c, 900 mm Long 25mm dia SS box handle, 350 mm long 20mm dia SS hatch bolt, 150mm x 38mm hinge base plate, 50 mm x 8 mm S.S plate for bottom rail, 75 mm dia SS wheel, 6 mm thick 12" x 13" box SS 16 gauge plate for locking arangement, 100 mm x 10 mm dia S.S. Rowel bolt, SS pad lock, fitting-fixing the gate by cutting hole and mending good the damages by pouring concrete(1:2:4) into the holes and hoisting the gate in position with necessary carriage,electrodes, curing, polishing, finishing, etc.complete as per drawing and design and accepted by the Engineer-in-charge. [PWD 19.10.3]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.18.15.1	for S.S. Grade A304 [PWD 19.10.3.1]	sqm	30,549.67	30,529.11	30,363.64	30,363.64
5.18.15.2	for S.S. Grade A201 [PWD 19.10.3.2]	sqm	25,285.39	25,264.83	25,099.36	25,099.36
Section 19 : Stair & Verandah Railing And Stair Nosing						
5.19.01	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with square box (2 nos.in each tread) made by through welding of 2 nos. 19 mm x 19 mm x 3 mm M.S. angle to provide hand-rail, engraving each box 150mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 38 mm x 6mm F.I. bar inclined plain with the top of the box to fit in the grooved wooden rail by necessary screws including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish). [PWD 20.1]	sqm	4,374.22	4,345.44	4,203.61	4,203.61
5.19.02	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with square box (2 nos. box in each tread) made by through welding of 2nos. 25 mm x 25 mm x 5 mm M.S. angle, engraving each box 150 mm in the concrete by 50 mm x 50 mm x 6 mm anchor plate at base, welding 50 mm x 6 mm F.I. bar in inclined plain with the top of the box fitted in the grooved wooden rail and 2 Nos. 225 mm x25 mm finished section of wooden strip fitted and fixed at mid height of railing at both side of M.S. angle box in inclined plain parallel to the hand rail etc. fitted and fixed by necessary screws, nails including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail and inclined wooden strip and painting to F.I bar and square box with 2 (two) coats of synthetic enamel paint of approved quality and colour over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail, wooden strip and cost of painting, polish). [PWD 20.2]	sqm	5,638.39	5,609.61	5,468.81	5,468.81
5.19.03	Supplying, fitting and fixing 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height of any design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitted and fixed by welding. Placing the pipes vertically @ 250 mm c/c (1 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 38 mm x 6 mm F.I. bar on the top of G.I. pipe to provide wooden hand rail of any design applying french polish of approved quality and colour to wooden hand rail and painting with 2 (two) coats of synthetic enamel paint of approved quality and colour over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish). [PWD 20.3]					
5.19.03.1	With the provision of hand rail of size: 150 mm x 62 mm (finished) [PWD 20.3.1]	sqm	2,969.25	2,954.86	2,871.61	2,871.61
5.19.03.2	With the provision of hand rail of size: 112 mm x 62 mm (finished) [PWD 20.3.2]	sqm	3,611.61	3,587.97	3,469.78	3,469.78

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1	2	3	4	5	6	7
5.19.04	Supplying, fitting and fixing of 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height and design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 40 mm dia of 3.20 mm thick G.I. pipe hand rail on the top of vertical G.I. pipe, applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. all complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of paint). [PWD 20.4.1]	sqm	4,816.17	4,800.75	4,715.44	4,715.44
5.19.05	Supplying, fitting and fixing of 12 mm dia of 2.65 mm thick G.I pipe stair railing of standard height and design and shape with 50 mm x 50 mm x 6 mm M.S. plate at the base of 12 mm dia G.I. Pipe and fitting & fixing by welding. Placing the pipes vertically @ 125 mm c/c (2 nos. in each steps) 150 mm embedded into the R.C.C tread of stair case after cutting grooves and mending good the damages with C.C. and providing 50 mm dia of 3.20 mm thick G.I. pipe hand rail on the top of vertical G.I. pipe, applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. all complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of paint). [PWD 20.4.2]	sqm	5,218.03	5,198.50	5,097.78	5,097.78
5.19.06	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 75mm x 50mm x 3mm MS box for hand rail and 03 nos vertical post of 75mm x 50mm x 3mm MS box in each flight, welding the vertical post box with 100 mm x 100 mm x 6 mm anchor base plate and fixing with concrete of stair by royal bolt, welding MS box or MS F.I bar of any shape and design horizontally between the vertical post @ 125 mm c/c, applying 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. finished in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting). [PWD 20.5]					
5.19.06.1	With F.I bar of size: 38 mm x 6 mm [PWD 20.5.1]	sqm	5,241.67	5,219.06	5,096.75	5,096.75
5.19.06.2	With MS box of size: 20 mm x 20 mm of 1.5 mm wall thikness [PWD 20.5.2]	sqm	4,750.39	4,728.81	4,606.50	4,606.50
5.19.07	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 75 mm x 75 mm finished wood for hand rail and vertical post, fitting with 02 Nos. frames (150 mm space between the two frames and vertical wooden post) of 50 mm x 25 mm 1.5 mm MS box in each flight and welding 50 mm x 6 mm F.I. bar horizontally in each frame @ 150 mm c/c, fixing the rail, post and frames by necessary screws, nails, bolts with concrete of stair, applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish). [PWD 20.6.1]	sqm	4,465.69	4,444.11	4,335.17	4,335.17

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.19.08	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 50mm finished wood for hand rail, 75mm x 50mm x 3mm MS box for vertical post (total 4 nos. post per flight) fitting by welding on 100 mm x 100 mm x 6 mm anchor plate at base, welding MS box or MS F.I bar of any shape and design horizontally between the vertical post @ 125 mm c/c, welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish). [PWD 20.6.2]					
5.19.08.1	With MS box of size: 38 mm x 12 mm of 1.5 mm wall thikness [PWD 20.6.2.1]	sqm	4,859.33	4,837.75	4,728.81	4,728.81
5.19.08.2	With F.I bar of size: 38 mm x 6 mm [PWD 20.6.2.2]	sqm	5,314.64	5,293.06	5,184.11	5,184.11
5.19.09	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 62mm finished wood for hand rail, fixing with 75mm x 38mm x 3mm MS box of 400mm length which fitting between 2 nos. 75mm x 38mm x 3mm MS box (total 3 nos. post per flight) welding on 150 mm x 150 mm x 6 mm anchor plate at base, 01 no 75mm x 38mm x 3mm MS box (200 mm space from top wooden rail) inclined with top and 01 no 75mm x 38mm x 3mm MS box (fitted with plain concrete surface of stair by royal bolt) inclined with bottom, both welding with vertical post, welding 1.5 mm thick 20mm dia MS pipe @ 125mm c/c horizontally between the MS vertical post, welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4), applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish). [PWD 20.6.3]	sqm	7,538.75	7,518.19	7,412.33	7,412.33
5.19.10	Manufacturing, supplying, fitting and fixing of stair railing of standard height of any design and shape with 100mm x 62mm finished wood for hand rail, fixed with 50mm x 25mm x 2mm SS box of 400mm length which fitting between 2 nos. 50mm x 25mm x 2mm SS box (total 3 nos. post per flight) welding on 100 mm x 100 mm x 6 mm anchor plate at base, 01 no 50mm x 25mm x 2mm SS box (200 mm space from wooden rail) inclined with top and 01 no 50mm x 25mm x 2mm SS box (fitted with plain concrete surface of stair by royal bolt) inclined with bottom, both welding with vertical post, welding 1.5 mm thick 20mm dia SS pipe 125mm c/c horizontally between the SS vertical post, welding 50 mm x 6 mm F.I. bar in inclined fitted in the grooved wooden rail by necessary screws, nails, mending good the damages with cement concrete (1:2:4) including polishing of SS box and pipe, applying french polish of approved quality and colour to wooden hand rail, 2 (two) coats of synthetic enamel paint of approved quality and color over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area excluding hand rail of railing will be considered for measurement, rate is excluding the cost of wood for hand-rail and cost of painting, polish of wood). [PWD 20.6.7]	sqm	10,909.86	10,889.31	10,787.56	10,787.56

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.19.11	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia 5 nos vertical SS pipes in each flight, 1.5 mm thick 20 mm dia 5 nos horizontal SS pipes as per drawing, design including carrying, polishing, fabricating, welding and fixing with tread by 25 mm long royal bolt etc.all complete and accepted by the Engineer-in-charge. [PWD 20.8.1]	sqm	8,002.28	7,985.83	7,903.61	7,903.61
5.19.12	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm x 25 mm SS Box for hand-rail fixing with 2 nos of consecutive SS vertical post of 2 mm thick 50 mm x 18 mm SS Box (4 nos vertical support in each flight, each vertical support containing 2 nos of consecutive SS vertical box of 125 mm space) fixing with tread by 75 mm long royal bolt, welding 1.5 mm thick 38 mm x 12 mm 5 nos horizontal SS Box between vertical support as per drawing, design including carrying, polishing, fabricating, welding etc.all complete and accepted by the Engineer-in-charge. [PWD 20.8.2]	sqm	10,762.89	10,739.25	10,617.97	10,617.97
5.19.13	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 50mm x 6mm SS double plate SS newel post having SS pipe holder at the top to provide hand rail and having SS knob between double plate to hold the horizontal pipe (4 nos. post in each flight) fitting by welding on 150 mm x 100 mm x 6 mm SS anchor plate at base, base plate fitting with the tread by 50mm long royal bolt, 1.5 mm thick 20 mm dia 5 nos horizontal pipes fitting in the SS knob including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge. [PWD 20.8.3]	sqm	11,988.00	11,966.42	11,853.36	11,853.36
5.19.14	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 2 mm thick 62mm dia pipe for hand-rail, 2 mm thick 50mm dia SS vertical post having pipe holder at the top to provide hand rail and having SS knob to hold the horizontal pipe (4 nos. post in each flight) fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the tread by 50 mm long royal bolt, 1.5 mm thick 20 mm dia 8 nos horizontal pipes fitting in the SS knob including carrying, polishing fabricating etc.all complete and accepted by the Engineer-in-charge. [PWD 20.8.4]	sqm	11,340.50	11,319.94	11,216.14	11,216.14
5.19.15	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair with 62 mm dia 2 mm thick SS pipe for hand rail, 04 nos 62 mm x 50 mm x 2 mm SS vertical box post (having 4 nos. SS glass holder and 1 no rail holder) in each flight fitting and fixing with 65 mm x 55 mm x 6 mm SS base plate including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc in all respect and accepted by Engineer-in-charge. [PWD 20.9.1]	sqm	12,571.78	12,551.22	12,433.03	12,433.03
5.19.16	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 62 mm dia SS vertical post (4 nos. post in each flight) having 1 no. pipe holder at the top to provide top rail and 4 nos. SS glass holder to fit the tempered glass, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the tread by 50mm long royal bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc in all respect and accepted by Engineer-in-charge. [PWD 20.9.2]	sqm	22,615.22	22,592.61	22,466.19	22,466.19
5.19.17	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, fixing rail with the glass by SS holder, fitting the tempered glass with 150mm/200 mm long SS glass clamp (4 nos. clamp in each flight), welding the SS glass clamp on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the tread by 50mm long royal bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc in all respect and accepted by Engineer-in-charge. [PWD 20.9.3]	sqm	12,432.00	12,413.50	12,302.50	12,302.50

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1	2	3	4	5	6	7
5.19.18	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 50 mm x 25 mm SS vertical post (4 nos. post in each flight) having 1 no. pipe holder at the top to provide top rail and 2 nos. SS glass holder to fit the tempered glass, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate on outer side of the tread by 75mm long royal bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc in all respect and accepted by Engineer-in-charge. [PWD 20.9.4]	sqm	12,249.06	12,229.53	12,114.42	12,114.42
5.19.19	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 62mm dia finished wood with 10mm x 18mm groove for hand rail, fitting 150mm x 50mm finished wood with 10mm x 50mm groove with the plain RCC surface at bottom by 50mm long royal bolt, 10 mm thick tempered glass fitting in the groove between the hand rail and bottom wooden section by glass protector bit/rubber gasket, silicon including carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish). [PWD 20.10.1]	sqm	6,857.33	6,847.06	6,766.89	6,766.89
5.19.20	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 75 mm x 50 mm finished wood for hand rail and vertical post of both sides of stair railing having 10mm x 38mm groove for fitting the tempered glass, 1.5mm thick 62 mm x 25 mm alluminium U channel fitting with the RCC plain surface at bottom by 50mm long royal bolt,10 mm thick Tempered glass fitting between the wooden groove and alluminium U channel through glass protector bit/rubber gasket, silicon as per drawing, design including carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish). [PWD 20.10.2]	sqm	7,788.50	7,778.22	7,697.03	7,697.03
5.19.21	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 75 mm x 50 mm finished wood for hand rail and vertical post of both sides of stair tread, fixing the rail with the tempered glass by SS holder, fitting the bottom edge of the tempered glass with 1.5mm thick 38mm x 18 mm alluminium U channel and the top edge of the tempered glass with 1.5 mm thick 12mm x 12 mm alluminium U channel through glass protector bit/rubber gasket, silicon and fixing with the tread of stair by 50mm long royal bolt, fitting 38 mm x 6 mm F.I. bar at the bottom of the grooved wooden hand rail by necessary screws, nails including fitting, fixing,carrying, fabricating etc. as per drawing, design all complete and accepted by the Engineer-in-charge. (Rate is excluding cost of wood and cost of polish). [PWD 20.10.3]	sqm	8,713.50	8,702.19	8,622.03	8,622.03
5.19.22	Supplying, fitting and fixing 10 mm thick tempered glass railing in stair of standard height with 2 mm thick 62 mm dia SS pipe or 2 mm thick 62 mm x 38 mm SS box for hand rail and vertical post of both sides of stair tread, fixing the rail with the tempered glass by SS holder, fitting the bottom edge of the tempered glass with 1.5mm thick 38mm x 18 mm alluminium U channel and the top edge of the tempered glass with 1.5 mm thick 12mm x 12 mm alluminium U channel through glass protector bit/rubber gasket, silicon and fixing with the tread of stair by 50 mm long royal bolt, welding vertical post on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the concrete of stair by 50mm long royal bolt including fitting, fixing,carrying, fabricating, polishing etc. as per drawing, design all complete and accepted by the Engineer-in-charge. [PWD 20.10.4]	sqm	11,264.44	11,252.11	11,152.42	11,152.42

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.19.23	Supplying, fitting and fixing stainless steel railing of standard height (approximately 225 mm above RCC or Brick wall) with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 40 mm dia vertical SS pipes @ 1200 mm c/c fitting and fixing with 65 mm x 55 mm x 6 mm SS base plate and fitting base plate with the surface by 50mm long royal bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge. [PWD 20.11]	m	2,298.11	2,298.11	2,298.11	2,298.11
5.19.24.1	Supplying, fitting and fixing stainless steel railing on inner side of stair with 2 mm thick 62 mm dia SS pipe for hand-rail (50mm space from wall), fitting and fixing by a SS pipe holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm SS base plate and fitting base plate on RCC or Brick wall by SS Royel Bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge. [PWD 20.12.1]	m	2,351.56	2,350.53	2,339.22	2,339.22
5.19.24.2	Supplying, fitting and fixing MS railing on inner side of stair with 3 mm thick 62 mm x 38 mm MS box for hand-rail (50mm space from wall), fitting and fixing by a MS box holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm MS base plate and fitting base plate on RCC or Brick wall by Royel Bolt including welding, bending, fabricating, all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge. [PWD 20.12.2]	m	1,365.92	1,364.89	1,353.58	1,353.58
5.19.24.3	Supplying, fitting and fixing 50 mm dia finished Wooden railing on inner side of stair (50mm space from wall), fitting both sides by 2 mm thick 50 mm dia SS pipe caping one end of 250 mm length, fitting and fixing by a SS holder @ 1200 mm c/c welding with 65 mm x 55 mm x 6 mm SS base plate and fitting base plate on RCC or Brick wall by Royel Bolt including welding, bending, fabricating, all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge [PWD 20.12.3]	m	2,324.83	2,307.36	2,320.72	2,320.72
5.19.25	Supplying, fitting and fixing SS Swimming Pool Ladder of 3000 mm x 600 mm size in which outer frame of 2 mm thick 50 mm dia SS pipe and horizontal bar for lower part (approximately 1800 mm) of 2 mm thick 40 mm dia SS pipe @ 200 mm c/c and fitting and fixing the whole with 100 mm x 100 mm x 6 mm SS base plate on both side and fitting base plate on RCC or Brick wall by Royel Bolt including welding, bending, fabricating, all complete as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge. [PWD 20.13]	sqm	8,381.53	8,360.97	8,254.08	8,254.08
5.19.26.1	Supplying, fitting and fixing verandah railing with 2 mm thick 50 mm dia SS hand rail, 1.5 mm thick 20 mm dia 5 nos SS horizontal pipes, 2 mm thick 50 mm x 25 mm SS box vertical post @ 450 mm c/c. Among the vertical box post, 5 nos box posts will be fitted with floor bed by 65 mm x 55 mm x 6 mm SS plate, remaining SS box post will be fitted and fixed with 50 mm x 25 mm x 2 mm SS horizontal box at bottom (50 mm above from floor) including all fittings, fixtures, polishing, carrying etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge. [PWD 20.14.1]	sqm	9,797.81	9,768.00	9,608.69	9,608.69
5.19.26.2	Supplying, fitting and fixing verandah railing with 2 mm thick 62 mm dia SS hand rail, 1.5 mm thick 25 mm square SS box @150mm c/c vertically, 2 mm thick 50 mm dia SS vertical post @ 900 mm c/c, 2 nos 1.5 mm thick 38mm x 38mm square SS box fitting horizontally at 125mm below from top rail and 125mm above from floor, vertical box posts will be fitted with floor bed by 65 mm x 55 mm x 6 mm SS plate including all fittings, fixtures, polishing, carrying etc. all complete as per approved design and drawing and accepted by the Engineer-in-charge. [PWD 20.14.2]	sqm	10,981.81	10,967.42	10,889.31	10,889.31

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1	2	3	4	5	6	7
5.19.26.3	Supplying, fitting and fixing verandah railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2mm thick 75mm x 75mm SS square vertical post having pipe holder to provide hand rail and SS knob for horizontal pipe @ 900mm c/c fitting by welding on 150 mm x 150 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 1.5 mm thick 25 mm dia 8 nos horizontal SS pipes fitting with SS knob of vertical post including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge. [PWD 20.14.3]	sqm	12,334.36	12,321.00	12,249.06	12,249.06
5.19.26.4	Supplying, fitting and fixing verandah railing of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 50mm dia vertical SS post having pipe holder to provide hand rail and SS knob for horizontal pipe @ 900mm c/c fitting by welding on 150 mm x 150 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 1.5 mm thick 25 mm dia 8 nos horizontal SS pipes fitting with SS knob of vertical post including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge. [PWD 20.14.4]	sqm	12,277.83	12,263.44	12,185.33	12,185.33
5.19.27.1	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah with 62mm dia 2 mm thick SS pipe for hand rail, 62 mm x 50 mm x 2 mm SS vertical box fitted with concrete slab by 100 mm x 55 mm x 6 mm SS plate @ 600 mm c/c and base plate fitting with the floor by 50mm long royal bolt including all fittings, fixtures as per drawing, desing and specification etc all complete in all respect and accepted by Engineer-in-charge. [PWD 20.15.1]	sqm	12,280.92	12,268.58	12,196.64	12,196.64
5.19.27.2	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 2 mm thick 62 mm dia SS pipe for hand-rail, 2 mm thick 50 mm dia SS vertical post having pipe holder to provide hand rail and SS glass holder @ 900mm c/c fitting by welding on 100 mm x 100 mm x 6 mm SS anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 10 mm thick Tempered glass fitting between the post through glass holder as per drawing, design including carrying, polishing fabricating etc. all complete and accepted by the Engineer-in-charge. [PWD 20.15.2]	sqm	12,106.19	12,094.89	12,025.00	12,025.00
5.19.27.3	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 1.5 mm thick 50mm x 15mm SS U channel at top of rail, fitting the tempered glass with 150mm/200 mm long SS glass clamp @ 900mm c/c, welding the SS glass clamp on 100 mm x 100 mm x 6 mm SS base plate and fitting base plate with the floor by 50mm long royal bolt including welding, bending, fabricating, polishing all complete as per drawing, desing and specification etc in all respect and accepted by Engineer-in-charge. [PWD 20.15.3]	sqm	11,033.19	11,022.92	10,959.19	10,959.19
5.19.28.1	Supplying, fitting and fixing 10 mm thick tempered glass railing in verandah of standard height with 3mm thick 50mm x 50mm square MS box for hand rail, 3mm thick 75mm x 38mm mm MS vertical post box @ 900 mm c/c fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, fitting 10mm thick tempered glass between the vertical post through glass holder, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat including all other accessories and carrying, fabricating etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting). [PWD 20.16]	sqm	9,344.56	9,330.17	9,246.92	9,246.92

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.19.28.2	Supplying, fitting and fixing verandah railing of standard height with 3mm thick 75mm x 50mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 100 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 3mm thick 50mm x 38mm MS horizontal box fitting with the vertical post by welding @ 150 mm c/c including all other accessories and carrying, febrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting). [PWD 20.17.1]	sqm	6,020.72	6,003.25	5,912.81	5,912.81
5.19.28.3	Supplying, fitting and fixing verandah railing of standard height with 5mm thick 75mm x 75mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, fitting 5mm thick 50mm x 50mm MS horizontal box with the vertical post by welding at top of rail and 125mm above from the floor, 3mm thick 25mm x 25mm MS square box fitting by welding vertically @ 150 mm c/c between the top and bottom rail including all other accessories and carrying, febrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting). [PWD 20.17.2]	sqm	6,712.42	6,695.97	6,604.50	6,604.50
5.19.28.4	Supplying, fitting and fixing verandah railing of standard height with 5mm thick 75mm x 50mm MS box for vertical post box @ 900 mm c/c fitting by welding on 150 mm x 150 mm x 6 mm anchor plate at base, base plate fitting with the floor by 50mm long royal bolt, 5mm thick 75mm x 50mm MS horizontal box fitting by welding with the vertical post for hand rail, 2 nos. 5mm thick 50mm x 50mm MS horizontal box fitting with the vertical post by welding 125 mm below the top rail and 125 mm above the floor, 3mm thick 25mm x 25mm MS square box fitting by welding vertically @ 150 mm c/c between the 2 nos. 50mm x 50mm horizontal MS box including all other accessories and carrying, febrication, applying 2 (two) coats of synthetic enamel paint of approved quality over an anti-corrosive prime coat etc. complete in all respect for all floors and accepted by the Engineer-in-charge. (Exposed area of railing will be considered for measurement, rate is excluding the cost of painting). [PWD 20.17.3]	sqm	7,151.28	7,133.81	7,043.36	7,043.36
5.19.29	Providing nosing to the nose of tread of stair including supplying 3 nos. of 75 mm long 12 mm x 3 mm F.I./SS bar clamps with bifurcated ends in each treads including fitting and fixing with the angle by welding and fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing and the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge. [PWD 20.18]					
5.19.29.1	Providing 38 mm x 38 mm x 6 mm M.S. angle to the nosing of steps of staircase [PWD 20.18.1]	m	493.33	491.28	484.08	484.08
5.19.29.2	Providing nosing 32 mm x 32 mm x 6 mm M.S. angle to the nosing of steps of stair case. [PWD 20.18.2]	m	433.72	431.67	424.47	424.47
5.19.29.3	Providing 25 mm x 25 mm x 6 mm size M.S. angle to the nosing of stair case. [PWD 20.18.3]	m	375.14	374.11	366.92	366.92
5.19.29.4	Providing 38 mm x 38 mm x 6 mm brass angle to the nosing of steps of stair case [PWD 20.18.4]	m	1,560.17	1,558.11	1,550.92	1,550.92
5.19.29.5	Providing 38 mm x 38 mm x 6 mm S.S. angle to the nosing of steps of staircase [PWD 20.18.5]	m	1,517.00	1,514.94	1,507.75	1,507.75
5.19.29.6	Providing 32 mm x 32 mm x 6 mm S.S. angle to the nosing of steps of stair case [PWD 20.18.6]	m	1,212.78	1,210.72	1,203.53	1,203.53
5.19.29.7	Providing 25 mmx 25 m x 6 mm size S.S. angle to the nosing of stair case. [PWD 20.18.7]	m	1,148.03	1,145.97	1,138.78	1,138.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.19.30	Supplying, fitting & fixing of column guard made of 50 mm x 50 mm x 6 mm M.S. angle around column & 50 mm x 6 mm F.I. bar for Tie at the top including fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge [PWD 20.19]	m	647.50	645.44	634.14	634.14
5.19.31	Supplying, fitting & fixing of column guard made of 75 mm x 75 mm x 3 mm S.S. angle at corner of column including supplying 3 Nos. of 75 mm long 12 mm x 3 mm SS bar clamp with bifurcated ends, fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge. [PWD 20.20.1]	m	1,874.67	1,873.64	1,862.33	1,862.33
5.19.32	Supplying, fitting & fixing of column guard made of 50 mm x 50 mm x 3 mm S.S. angle at corner of column including supplying 3 Nos. of 75 mm long 12 mm x 3 mm SS bar clamp with bifurcated ends, fitting and fixing with the angle by welding, fitting and fixing the angle by cutting grooves in R.C.C, fixing and finishing the same with C.C. (1:2:4) etc. cost of electricity and other charges all complete and accepted by the Engineer-in-charge. [PWD PWD 20.20.2]	m	1,792.44	1,790.39	1,779.08	1,779.08
Section 20 : Grill Fencing And Barbed Wire Fencing						
5.20.01	Supplying, fitting and fixing MS grill fencing of any design and shape in boundary wall with 31 mm x 6 mm F.I. bar @ 150 mm c/c placed vertically after cutting as per required measurement. Welding the said F.I. bar with 2 nos. horizontal 30 mm x 6 mm F.I. bar placed one at top and another at bottom including embedding/fixing the horizontal F.I. bar in position with cutting grooves in wall up to 150 mm depth and mending good the damages with C.C. (1:2:4), finishing with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 21.1]	sqm	2,689.69	2,677.36	2,594.11	2,594.11
5.20.02	Supplying, fitting and fixing MS grill fencing of any design and shape made with 19 mm x 19 mm x 3 mm box (box made with 2 nos.19 mm x 19 mm x 3 mm angle by continuous welding) placed vertically @ 150 mm c/c and welding the said vertical boxes with two Nos. horizontal 25 x 25 x 6 mm angle box (made with 2 Nos. 25 x 25 x 6 mm angle by welding), placing one at bottom and another at top and again fitting & fixing by welding the said horizontal tube box with 38 mm x 38 mm x 6 mm angle box vertical post made with 2 nos. 38 mm x 38 mm x 6 mm angle by welding) provided @ 1800 mm c/c including embedding the tube box post in brick R.C.C. pillar or core wall up to 375 mm depth after cutting grooves in wall/pillar including mending good the damages with C.C. (1:2:4) and finishing, curing, 2 coats of approved synthetic enamel paint over a coat of anti-corrosive paint etc. all complete as per design, drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 21.2]	sqm	5,404.06	5,381.44	5,231.39	5,231.39
5.20.03	Manufacturing, supplying, fitting and fixing M.S. grill fencing as per design with outer frames having 38 mm x 38 mm x 6 mm M.S. angle and inner members having 10 mm dia M.S. rod placed @ 100 mm c/c diagonally on both direction, welding each cris-cross end of rod with corners of outer frame including cutting rods and size angles to required shapes and size and setting the entire fence with the previously installed box tube (box tube made with 2 nos. angle) post including thorough and full welding the frame with the angle box posts, painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming etc. all complete as per drawing and accepted by the Engineer-in-charge.(Rate is excluding the cost of paint) [PWD 21.3]	sqm	2,691.75	2,677.36	2,598.22	2,598.22

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.20.04	Manufacturing, supplying, fitting and fixing M.S. box tube (made with 2 nos angle) post (bottom end bifurcated) made by thorough welding of two Nos. 38 x 38 x 6 mm M.S. angle and vertically placing the post into C.C. or R.C.C. foundation including cutting angle to required shape and size including covering the top of the post with 6 mm thick M.S. plate etc. all complete as per drawing and accepted by the Engineer-in-charge.(Rate is excluding the cost of C.C./R.C.C. foundation and paint) [PWD 21.4]	m	1,136.72	1,132.61	1,107.94	1,107.94
5.20.05	Providing barbed wire fencing with R.C.C (1:2:4) pillars @ 2.43 m c/c. and of section 100 mm x 100 mm at top and 150 mm x 150 mm at bottom of 2.13 m total height (1.37 m above G.L. and 0.76 m below G.L.) including 150 mm thick, 450 mm square spread footings (pillars reinforced with 4 Nos. 10 mm dia main rod and 6 mm dia stirrups @ 150 mm c/c, footing reinforced with 5 Nos. 10 mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6 mm dia rods embedded in to the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire, with 4 points barbs @ at least 112 mm c/c including 6 mm thick (1:4) cement plaster up to 1500 mm length of the pillars etc. complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of concrete, reinforcement & plaster which is to be paid as per corresponding items in the schedule) [PWD 21.5]	sqm	161.36	160.33	158.28	158.28
5.20.06	Providing barbed wire fencing with average 100 mm dia best quality local ballah post of 1.98 m total height (1.37 m above G.L. and min. 0.60 m embedded in the ground) placed at 1800 mm c/c with 9 nos. horizontal lines and 2 nos. diagonal lines of 12 BWG 2 ply barbed wire with 4 points barbs @ at least 112 mm c/c in each way of 1.8 m including embedding the post tightly in ground and providing a cement concrete base of 200 mm x 200 mm x 300 mm around ballah at E.G.L, stretching the wires and fixing with the post with the help of minimum 62 mm long G.I. nails including supply of all materials etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of ballah and its driving/fixing and concrete which is to be paid as per corresponding items in the schedule) [PWD 21.6]	sqm	286.75	285.72	282.64	282.64
5.20.07	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c in both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. L-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule). [PWD 21.7]	sqm	987.69	979.47	958.92	958.92
5.20.08	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @ 150 mm c/c both horizontally and vertically, supported by 38 mm x 38 mm x 6 mm M.S. Y-shape angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) 600 mm vertical and 450 mm inclined or as per requirement @ 2.4 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supplying all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of paint, R.C.C /brick work or C.C. which is to be paid as per corresponding items in the schedule). [PWD 21.8]	sqm	1,062.72	1,054.50	1,033.94	1,033.94

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.20.09	Supplying, fitting and fixing 12 BWG barbed wire fencing in a circular shape of 600 mm dia and 100 mm pitch fitted with MS rod casing (made by 8 nos. 10 mm dia plain bar in a circular pattern and placed at equal interval), 38 x 38 x 6 mm M.S. angle post (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) and 600 mm vertical and 450 mm inclined placed @ 3.0 m c/c including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge. (Rate is excluding the cost of Painting). [PWD 21.9]	m	2,623.92	2,616.72	2,568.42	2,568.42
5.20.10	Supplying, fitting and fixing Fency grill in Boundary wall made of 10 mm dia M.S. rod provided @ 75 mm c/c in any position both ways as per design with outside frame of 50 mm x 50 mm x 6 mm M.S. tube and two inner frame made of 25 mm x 25 mm x 6 mm M.S. tube including fabricating, welding in each point , painting 2 coats of synthetic enamel paint over a coat of anti-corrosive priming including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. [Rate is excluding the cost of painting] [PWD 21.10]	sqm	4,319.75	4,313.58	4,275.56	4,275.56
5.20.11.1	Manufacturing, supplying, fitting and fixing S.S. grill fencing(Grade 304) as per design in boundary wall with 50mm x 50mm x1.5mm box horizontal section for top & bottom part & 25mmx1.5mm ss round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thichness ss base plate of required size & ss royal bolt with side column/wall, 37 mm x 1.5 mm ss round vertical section 3'-0" c/c section attched with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete(1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge. [PWD 21.11.1]	sqm	14,100.08	14,091.86	14,056.92	14,056.92
5.20.11.2	Manufacturing, supplying, fitting and fixing S.S. grill fencing(Grade 201) as per design in boundary wall with 50mm x 50mm x1.5mm box horizontal section for top & bottom part & 25mmx1.5mm ss round horizontal section @ 4" c/c between top & bottom which are attached with 4 mm thichness ss base plate of required size & ss royal bolt with side column/wall, 37 mm x 1.5 mm ss round vertical section 3'-0" c/c section attched with bottom RCC section and top SS vertical section with required welding, mending good the damages with concrete(1:2:4) required polishing, finishing etc. all complete as per drawing and accepted by the Engineer-in-charge. [PWD 21.11.2]	sqm	9,668.31	9,659.06	9,624.11	9,624.11
5.20.12	Supplying, fitting and fixing fency grill in Boundary wall made of 38 mm x 38 mm x 6 mm M.S. tube vertical section @ 150 mm c/c and 19 mm x 19 mm x 3 mm M.S. Tube horizontal section @ 900 mm c/c fabricating, welding in each point , including cost of electricity, tools and plants, workshop charges, carriage of the same including cutting groves in the R.C.C. or brick work, mending good the damages with C.C. (1:2:4) etc, all complete for all floors accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 21.12]	sqm	3,026.81	3,021.67	2,994.94	2,994.94
5.20.13	Supplying, fitting and fixing SS galvanized barbed wire (dia 2.5 mm) fencing in a circular shape of 100 mm pitch fitted with SS rod casing (made by 6 nos. 10 mm dia SS solid bar(304 grade) in a circular pattern and placed at equal interval), 38 x 38 x 6 mm S.S. angle(304 grade) Y-post 600 mm vertical and 450 mm inclined placed @ 1.5 m c/c (300 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 300 mm) and including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge. [PWD 21.13]					
5.20.13.1	600 mm circular dia [PWD 21.13.1]	m	11,809.17	11,800.94	11,763.94	11,763.94
5.20.13.2	450 mm circular dia [PWD 21.13.2]	m	10,404.19	10,395.97	10,357.94	10,357.94

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.20.14	Supplying, fitting and fixing SS galvanized barbed wire(dia 2.5 mm) fencing in a circular shape of 100 mm pitch fitted with SS rod casing (made by 6 nos. 10 mm dia SS solid bar(201 grade) in a circular pattern and placed at equal interval), 38 x 38 x 6 mm S.S. angle(201 grade) Y- post 600 mm vertical and 450 mm inclined placed @ 1.5 m c/c (225 mm embedded in R.C.C. or in brick work with a cement concrete base of 75 mm x 75 mm x 225 mm) including straightening, binding the joints with 18 BWG wire, making holes in the angle etc. including supply of all necessary materials complete in all respect and accepted by the Engineer-in-charge. [PWD 21.14]					
5.20.14.1	600 mm circular dia [PWD 21.14.1]	m	10,806.06	10,797.83	10,760.83	10,760.83
5.20.14.2	450 mm circular dia [PWD 21.14.2]	m	8,633.33	8,625.11	8,588.11	8,588.11
5.20.15	Manufacturing, supplying, fitting and fixing steel grill fencing in boundary wall with 38 mm dia MS Pipe with thickness 6 mm placed @ 150 mm c/c vertically and mending good the damages with C.C. (1:2:4), finishing with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. complete as per drawing and design and accepted by the Engineer-in-charge. (Rate is excluding the cost of painting) [PWD 21.15]	sqm	4,462.61	4,451.31	4,403.00	4,403.00
5.20.16	Supplying, fitting and fixing of wooden wedge (12 mm base x 12 mm height) instead of putty for fixing glass panes with wooden frame by nails or by any other approved method including the cost of necessary wood (Garjan/ Jam/ Local sal), nails etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of wooden frame, painting and 5 mm thick glass panes) [PWD 22.1]	m	81.19	80.17	77.08	77.08
5.20.17	Supplying, fitting and fixing of best quality of different dia foreign made aluminium pipe curtain rail for door and window including cutting and fitting-fixing as per required measurement and supplying necessary screws, SS clamp, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge.[PWD 22.2]					
5.20.17.1	20 mm dia Aluminium pipe curtain rail [PWD 22.2.1]	m	631.06	736.92	728.69	728.69
5.20.17.2	25 mm dia Aluminium pipe curtain rail [PWD 22.2.2]	m	814.00	812.97	809.89	809.89
5.20.18	Supplying, fitting and fixing different dia best quality Stainless steel (SS) pipe as curtain rail for door and windows including cutting and fitting fixing as per required measurement and supplying heavy type SS Clamps & 2 nos SS End Caps, necessary screws, electric drill and rowel plug including charge of electricity etc. all complete and accepted by the Engineer-in-charge.[PWD 22.3]					
5.20.18.1	20 mm dia Stainless steel (SS) pipe with wall thickness 1.00 mm . [PWD 22.3.1]	m	578.64	578.64	574.53	574.53
5.20.18.2	25 mm dia Stainless steel (SS) pipe with wall thickness 1.20 mm . [PWD 22.3.2]	m	709.17	708.14	705.06	705.06
5.20.18.3	32 mm dia Stainless steel (SS) pipe with wall thickness 1.20 mm . [PWD 22.3.3]	m	882.86	882.86	878.75	878.75
5.20.19	Supplying, fitting and fixing special quality 10 mm thick clear tempered glass door including all accessories, 1 set floor mounted auto door closure, 2 nos. clamping devices, 1 set locking device, top hinge and handle etc. complete in all respect as per drawing and direction of the Engineer-in-charge.[PWD 22.4]	sqm	16,255.33	16,252.25	16,224.50	16,224.50
5.20.20	Supplying, fitting and fixing best quality of different thick clear glass partition with 44 mm, 44 mm, 1.5 mm aluminium box, protector bit (single), protector bit (double),Silicon including all accessories etc. all complete and as per drawing and direction of the Engineer-in-charge. [PWD 22.5]					
5.20.20.1	8 mm thick clear glass partition with aluminium box [PWD 22.5.1]	sqm	3,082.31	3,071.00	3,023.72	3,023.72
5.20.20.2	10 mm thick clear glass partition with aluminium box [PWD 22.5.2]	sqm	3,249.83	3,238.53	3,192.28	3,192.28

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1	2	3	4	5	6	7
5.20.21	Supplying, fitting and fixing of Chattogram Teak wood strip (62 mm x 25 mm x 20 mm) for fixing of aluminium curtain rails as per design and drawing, fitting and fixing coat of priming etc. all complete and accepted by the Engineer-in-charge.(Rate is excluding the cost of polishing etc.) [PWD 22.6]	m	940.42	925.00	903.42	903.42
5.20.22	Supplying, fitting and fixing vertical venetian blinds made with glass fiber fabrics (foreign made) with supply of all the best quality materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge. [PWD 22.7]	sqm	2,085.36	2,085.36	2,085.36	2,085.36
5.20.23	Supplying, fitting and fixing horizontal venetian blinds of 25 mm width made with aluminium foils/ strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer-in-charge. [PWD 22.8]	sqm	1,610.53	1,611.56	1,610.53	1,610.53
5.20.24	Supplying, fitting and fixing of horizontal zebra blind made with polyester fabrics, synthetic net with 3 inch vinyl/upvc coated strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod tilt, head cap, bottom cap, gear box, stick, support and cap, cord drum and support, bracket, cord lock, cord equalizer, top holder, ladder, cord, handling cord and aluminium foils etc. all complete and accepted by the Engineer-in-charge. [PWD 22.9]	sqm	3,550.97	3,552.00	3,550.97	3,550.97
5.20.25	Supplying, fitting and fixing of blackout/ translucent roller blind of PVC/ vinyl laminated fiberglass fabrics (foreign made) with supply of all materials (foreign made) such as head rail (aluminium), end cap-set, rod tilt, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord-weight weight-plate plastic washer, glass fiber fabrics, and head cap-set etc. all complete and accepted by the Engineer-in-charge.[PWD 22.10]	sqm	2,923.00	2,884.97	2,884.97	2,884.97
Section 21 : Concrete Solid And Hollow Blocks, Facing And Paving Stones Etc.						
5.21.01	240 mm thick Concrete Solid Block wall works having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M = 1.2) and minimum thickness of 12 mm in foundation and plinth, filling the joints/ interstices fully with mortar, racking out the joints and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge. [PWD 30.1]	cum	9,316.81	9,292.14	9,176.00	9,176.00
5.21.02	One layer of Concrete Solid Block Soling having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm in ground floor/ foundation including preparation of bed and filling the interstices with fine sand (F.M.= 0.8), leveling etc. all completed by the contractor and accepted by the Engineer-in-charge. [PWD 30.2]	sqm	680.39	677.31	667.03	667.03
5.21.03	240 mm thick Exterior Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge. [PWD 30.3]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.03.1	Ground floor [PWD 30.3.1]	cum	9,427.81	9,404.17	9,287.00	9,287.00
5.21.03.2	Add for each addl. floor above ground floor [PWD 30.3.2]	cum	75.03	75.03	75.03	75.03
5.21.04	114 mm thick Partition Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.4]					
5.21.04.1	Ground floor [PWD 30.4.1]	sqm	1,289.86	1,284.72	1,261.08	1,261.08
5.21.04.2	Add for each addl. floor up above ground floor [PWD 30.4.2]	sqm	37.00	37.00	37.00	37.00
5.21.05	240 mm thick Exterior Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 240) mm, thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.5]					
5.21.05.1	Ground floor [PWD 30.5.1]	sqm	1,979.50	1,975.39	1,950.72	1,950.72
5.21.05.2	Add for each addl. floor up above ground floor [PWD 30.6]	sqm	37.00	37.00	37.00	37.00
5.21.06	112 mm thick Partition Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 112) mm, thickness of individual Block Shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.6]					
5.21.06.1	Ground floor [PWD 30.6.1]	sqm	1,053.47	1,049.36	1,024.69	1,024.69
5.21.06.2	Add for each addl. floor up above ground floor [PWD 30.6.2]	sqm	37.00	37.00	37.00	37.00
5.21.07	240 mm thick Exterior Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70-3H) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.7]					
5.21.07.1	Ground floor [PWD 30.7.1]	cum	7,465.78	7,452.42	7,372.25	7,372.25
5.21.07.2	Add for each addl. floor up above ground floor [PWD 30.7.2]	cum	75.03	75.03	75.03	75.03

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.08	114 mm thick Partition Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70-3H) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.8]					
5.21.08.1	Ground floor [PWD 30.8.1]	sqm	1,156.25	1,152.14	1,128.50	1,128.50
5.21.08.2	Add for each addl. floor up above ground floor [PWD 30.8.2]	sqm	37.00	37.00	37.00	37.00
5.21.09	240 mm thick Boundary Wall with Concrete Solid Block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M =1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge. [PWD 30.9]	cum	9,427.81	9,404.17	9,287.00	9,287.00
5.21.10	114 mm thick boundary wall with Concrete Solid block having minimum compressive strength of 15 MPa and water absorption not greater than 7% of size (240 x 114 x 70) mm, laying with specified mortar of cement and sand in a ratio 1:5 (sand not less than F.M= 1.2) and minimum thickness of 12 mm, filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.10]	sqm	1,289.86	1,284.72	1,261.08	1,261.08
5.21.11	240 mm thick Boundary Wall with Concrete Hollow Block having minimum compressive strength of 15 MPa of size (390 x 190 x 240) mm, thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.11]	sqm	1,979.50	1,975.39	1,950.72	1,950.72
5.21.12	112 mm thick Boundary Wall with Concrete Hollow Block having minimum compressive strength of 10 MPa of size (390 x 190 x 112) mm, thickness of individual Block Shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.12]	sqm	1,053.47	1,049.36	1,024.69	1,024.69

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.13	240 mm thick Boundary Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 15 MPa of size (240 x 114 x 70 -3H) mm, thickness of individual Block Shell should not be less than 32 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.13]	cum	7,465.78	7,452.42	7,372.25	7,372.25
5.21.14	114 mm thick Boundary Wall with 3 Holes Concrete Hollow Block having minimum compressive strength of 10 MPa of size (240 x 114 x 70 - 3H) mm, thickness of individual Block Shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) minimum thickness of 15 mm (9 mm for shell portion and 6 mm for inside hollow portion), filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by contractor and accepted by the Engineer-in-charge.[PWD 30.14]	sqm	1,156.25	1,152.14	1,128.50	1,128.50
5.21.15	112 mm thick partition wall with sand cement hollow block wall (SCHB) having compressive strength of not less than 10 MPa, size (390 x 190 x 112) mm, thickness of individual Block shell should not be less than 25 mm, water absorption not more than 7%, laying with specified mortar (with admixture) of cement and sand in a ratio of not less than 1:5 (sand not less than F.M = 1.2), filling the interstices with mortar and making bond with connecting walls including necessary scaffolding and curing for minimun 14 days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 7 days including cost of water, electricity and other charges etc. in all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.15]					
5.21.15.1	Ground Floor [PWD 30.15.1]	sqm	895.19	891.08	867.44	867.44
5.21.15.2	Add for each additional floor above ground floor [PWD 30.15.2]	sqm	37.00	37.00	37.00	37.00
5.21.16	Minimum 10 mm thick cement plaster in cement : sand = 1:5 in surface of external/internal wall with specified external/internal plaster mix applied in two coats (first coat 6 mm and second coat 4 mm), finishing the corner and edge including washing of sand, cleaning the surface, scaffolding and curing for minimun 3 (three) days on mortar joints by jute/brush in wet, followed by impervious/wet covering for another 4 (four) days etc. all complete etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of grouting and reinforcement) [PWD 30.16]					
5.21.16.1	Ground floor [PWD 30.16.1]	sqm	302.17	300.11	281.61	281.61
5.21.16.2	Add for each additional floor above ground floor [PWD 30.16.2]	sqm	6.17	6.17	6.17	6.17
5.21.17	Supplying and placing of grey engraved cement concrete tiles (250 mm x 250 mm in size) having minimum thickness of 24 mm over 12 mm sand cement mortar (4:1) each at a distance of 6 mm apart and filling the joints with cement sand mortar (1:4) including raking out joints and cutting the tiles to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, curing for minimun 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.35.1]					
5.21.17.1	Ground floor [PWD 30.35.1.1]	sqm	997.97	995.92	980.50	980.50

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.17.2	Add for each additional floor above ground floor [PWD 30.35.1.2]	sqm	10.28	10.28	10.28	10.28
5.21.18	Supplying and placing of coloured engraved cement concrete tiles (250 mm x 250 mm in size) having minimum thickness of 24 mm over 12 mm sand cement mortar (4:1) each at a distance of 6 mm apart and filling the joints with cement sand mortar (1:4) including raking out joints and cutting the tiles to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, curing for min 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.35.2]					
5.21.18.1	Ground floor [PWD 30.35.2.1]	sqm	1,140.83	1,138.78	1,123.36	1,123.36
5.21.18.2	Add for each additional floor above ground floor [PWD 30.35.2.2]	sqm	10.28	10.28	10.28	10.28
5.21.19	38 mm thick grey cladding work in facing on superstructure with 200 mm x 90 mm x 38 mm size concrete clad pested with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.36.1]					
5.21.19.1	Ground floor [PWD 30.36.1.1]	sqm	1,656.78	1,648.56	1,611.56	1,611.56
5.21.19.2	Add for each additional floor above ground floor [PWD 30.36.1.2]	sqm	18.50	18.50	18.50	18.50
5.21.20	38 mm thick coloured cladding work in facing on superstructure with 200 mm x 92 mm x 38 mm size concrete clad pested with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.36.2]					
5.21.20.1	Ground floor [PWD 30.36.2.1]	sqm	1,787.31	1,779.08	1,742.08	1,742.08
5.21.20.2	Add for each additional floor above ground floor [PWD 30.36.2.2]	sqm	18.50	18.50	18.50	18.50
5.21.21	50 mm thick grey cladding work in facing on superstructure with 400 mm x 100 mm x 50 mm size concrete clad pested with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.36.3]					
5.21.21.1	Ground floor [PWD 30.36.3.1]	sqm	1,408.06	1,396.75	1,350.50	1,350.50
5.21.21.2	Add for each additional floor above ground floor [PWD 30.36.3.2]	sqm	18.50	18.50	18.50	18.50
5.21.22	50 mm thick coloured cladding work in facing on superstructure with 400 mm x 100 mm x 50 mm size concrete clad pested with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.36.4]					
5.21.22.1	Ground floor [PWD 30.36.4.1]	sqm	1,557.08	1,546.81	1,499.53	1,499.53

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.22.2	Add for each additional floor above ground floor [PWD 30.36.4.2]	sqm	18.50	18.50	18.50	18.50
5.21.23	15 mm thick grey/coloured cladding work in facing on superstructure with 420 mm x 330 mm x 15 mm size concrete clad pested with 20 mm thick cement mortar (1:4) to be placed at 6 mm apart, filling the interstices with same mortar, raking out joints and cutting the clad to required sizes wherever necessary with high class recessed pointing, cleaning and washing of sand, necessary scaffolding, curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days etc. all complete and accepted by the Engineer-in-charge.[PWD 30.36.5]					
5.21.23.1	Ground floor [PWD 30.36.5.1]	sqm	1,040.11	1,031.89	994.89	994.89
5.21.23.2	Add for each additional floor above ground floor [PWD 30.36.5.2]	sqm	18.50	18.50	18.50	18.50
5.21.24	240 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 240 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.37.1]					
5.21.24.1	Ground floor [PWD 30.37.1.1]	cum	6,229.36	6,209.83	6,117.33	6,117.33
5.21.24.2	Add for each additional floor above ground floor [PWD 30.37.1.2]	cum	75.03	75.03	75.03	75.03
5.21.25	200 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 200 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.37.2]					
5.21.25.1	Ground floor[PWD 30.37.2.1]	cum	6,606.56	6,586.00	6,493.50	6,493.50
5.21.25.2	Add for each additional floor above ground floor [PWD 30.37.2.2]	cum	75.03	75.03	75.03	75.03
5.21.26	150 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 150 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with specified mortar of cement and sand in a ratio 1:4 (sand not less than F.M =1.2) and minimum thickness of 10 mm, (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding and curing for minimum 3 (three) days on mortar joints by jute /brush in wet, followed by impervious /wet covering for another 4 (four) days curing etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.37.3]					
5.21.26.1	Ground floor [PWD 30.37.3.1]	cum	7,490.44	7,470.92	7,377.39	7,377.39
5.21.26.2	Add for each additional floor above ground floor[PWD 30.37.3.2]	cum	75.03	75.03	75.03	75.03

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.21.27	240 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 240 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maitaining W/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3 mm -4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.38.1]					
5.21.27.1	Ground floor [PWD 30.38.1.1]	cum	6,294.11	6,278.69	6,208.81	6,208.81
5.21.27.2	Add for each additional floor above ground floor [PWD 30.38.1.2]	cum	75.03	75.03	75.03	75.03
5.21.28	200 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 200 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maitaining W/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3 mm -4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.38.2]					
5.21.28.1	Ground floor [PWD 30.38.2.1]	cum	6,758.67	6,743.25	6,672.33	6,672.33
5.21.28.2	Add for each additional floor above ground floor [PWD 30.38.2.2]	cum	75.03	75.03	75.03	75.03
5.21.29	150 mm thick wall in super structure with Autoclaved Aerated Concrete (AAC) Block of size (600 x 200 x 150 : L x H x W) mm having Compressive Strength not less than 6 MPa, Nominal Dry Density 850 kg/m3 and Drying Shrinkage not exceeding 0.02% conforming BNBC-2020 (ASTM C1386), laying with approved polymer modified adhesive mortar having water retention not less than 75% & average compressive strength at 28 days, min 5.2 MPa conforming ASTM C270, Splitting Tensile Strength not less than (0.40 – 0.49 MPa) conforming ASTM C1660, maitaining W/p ratio 25% - 30% and jointing adhesive mortar layer thickness of (3 mm -4 mm), (or other binding materials which comply with BNBC-2020) filling the interstices with mortar and making bond with connecting walls /frames including necessary scaffolding, cutting and sizing AAC blocks etc. all completed by the contractor and accepted by the Engineer-in-charge.[PWD 30.38.3]					
5.21.29.1	Ground floor [PWD 30.38.3.1]	cum	7,717.58	7,701.14	7,628.17	7,628.17
5.21.29.2	Add for each additional floor above ground floor [PWD 30.38.3.2]	cum	75.03	75.03	75.03	75.03

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section 22 : Heat and Water Proofing Works (Roofs)						
5.22.01	25 mm thick ferrocement treatment work for water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type–1, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 MPa & having 2 mesh per 25 mm in both ways, clear cover 12 mm at the middle of the ferrocement lining, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge. [PWD 17.5.1]	sqm	1,585.86	1,577.64	1,529.33	1,538.58
5.22.02	25 mm thick ferrocement treatment work for heat and water proofing on roof having minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type–1, and best quality coarse sand (F.M. 2.2) including, the supply of all materials, cutting, binding of one layer of 20 BWG galvanized wire mesh having minimum yield strength fy = 450 Mpa & having 2 mesh per 25mm in both ways, clear cover 12mm at the middle of the ferrocement lining, applying 62 mm thick EPS sheet having density 15 kg per cum, with washing of sand, chipping, cleaning the surface, watering, grouting, casting, laying on proper level of roof top or floor in panels (1.25 m x 1.25 m). Compaction including leveling, curing at least for 21 days including cost of water, electricity, in all respect as per drawing, design and accepted by the Engineer-in-charge. [PWD 17.5.2]	sqm	1,996.97	1,987.72	1,936.33	1,945.58
Section 23: Pile Works And Pile Test						
5.23.01	Boring/drilling by wash or percussion method for cast in situ pile up to the required depth and diameter with minimum 6 m long temporary steel casing, true to vertical, providing bentonite slurry and maintaining water level in the hole, washing the hole for at least 30 minutes, cleaning the bore hole and making the bore hole ready for placing steel cage and concreting including hire charge of rig set with winch machine, tripod stand, tremie pipe, cost of fuel, lubricant, mobilization, demobilization, maintenance, spares, stand-byes, insurance coverage, water, electricity and other charges all complete, approved and accepted by the Engineer-in-charge. Before commencing boring operation, contractor shall submit the method statement of cast-in-situ pile work including sequence of boring and casting, disposal of spoils to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. . (PWD 09.1)					
5.23.01.01	400 mm dia . (PWD 09.1.1)	m	841.75	835.58	817.08	817.08
5.23.01.02	450 mm dia (PWD 09.1.2)	m	1,069.92	1,062.72	1,039.08	1,039.08
5.23.01.03	500 mm dia (PWD 09.1.3	m	1,254.92	1,246.69	1,218.94	1,218.94
5.23.01.04	550 mm dia (PWD 09.1.4)	m	1,496.44	1,486.17	1,454.31	1,454.31
5.23.01.05	600 mm dia (PWD 09.1.5)	m	1,725.64	1,714.33	1,677.33	1,677.33

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1	2	3	4	5	6	7
5.23.02	Auger Boring/Rotary drilling for cast in situ pile up to the required depth and diameter with minimum 6 m long temporary steel casing, true to vertical, providing bentonite slurry and maintaining water level in the hole, washing the hole for at least 30 minutes, cleaning the bore-hole and making the bore- hole ready for placing steel cage and concreting including hire charge of rig set , tremie pipe, cost of fuel, lubricant, mobilization, demobilization, maintenance, spares, stand-byes, insurance coverage, bentonite, water, electricity and other charges etc. complete approved and accepted by the Engineer-in-charge. Before commencing boring operation, contractor shall submit the method statement of cast-in-situ pile work including sequence of boring and casting, disposal of spoils to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.2)					
5.23.02.01	600 mm dia (PWD 09.2.1)	m	3,973.39	3,968.25	3,950.78	3,950.78
5.23.02.02	750 mm dia (PWD 09.2.2)	m	4,949.78	4,942.58	4,922.03	4,922.03
5.23.02.03	1000 mm dia (PWD 09.2.3)	m	7,179.03	7,169.78	7,139.97	7,139.97
5.23.03.01	Removing of spoils / mud accumulated during boring for cast in situ pile by wash boring from working site to a safe distance by contractor' s own arrangement i.e. with container set in truck or on cart including loading, unloading everything complete as per standard practice and accepted by the Engineer-in-charge. (Quantity should be given three times of solid volume of boring) (PWD 09.3)	cum	764.67	762.61	708.14	708.14
5.23.04.01	Cast in situ pile with reinforced cement concrete works of high slump by adding high range water reducing admixture (ASTM C494 Type A or F) with minimum cement content relates to mix ratio 1 : 1.5 : 3 having minimum f'cr = 26 Mpa, and satisfying a specified compressive strength f'c = 21 Mpa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM & cement conforming to BDS EN-197-1- CEM -1,52.5 N / ASTM-C 150 Type – I, best quality coarse sand [Sylhet sand or coarse sand of equivalent F.M.2.2], 20 mm down well graded crushed stone chips conforming to ASTM C-33, including breaking chips, screening through proper sieves, making, placing re-bar cage in position, placing and removing tri-pod as per requirement, pouring the concrete in bore-hole with the help of a tremie pipe, maintaining the tremie pipe immersed in concrete by at least 1 meter throughout the period of concreting, maintaining required slump, etc. mixing the aggregates with standard mixer machine with hopper, casting in forms, all complete including water, electricity, testing of materials and concrete etc and other charges as per design, drawing etc all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding, placing and admixture (approx doses 150 to 250 ml per bag of cement which is to be fixed upon consultation with design office) (PWD 09.4)	cum				
5.23.04.01.01	Cast in situ pile with reinforced cement concrete	cum	17,141.28	17,309.83	15,912.06	16,312.89
5.23.05.01	Providing and making point welding at contact point of the spiral binders at reasonable intervals with the main reinforcements by electric arc welding for construction of cast in situ bored pile carefully with highly oxidized electrodes, making the points prominent and accepted by the Engineer-in-charge (Rate is inclusive of all materials labour, tools and plants, electricity and all equipment). (PWD 09.5)	point	4.11	4.11	4.11	4.11
5.23.06.01	Providing and making welded splice over two sides of contact by welding of minimum 300 mm length at the lap of main reinforcement in re-bar cage to be placed in bore-hole where necessary by electric arc welding with highly oxidized electrodes making the joint prominent all complete and accepted by the Engineer-in-charge. (Rate is inclusive of all materials labour, tools and plants, electricity and all equipment). (PWD 09.6)	m	496.42	496.42	496.42	496.42

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1	2	3	4	5	6	7
5.23.07.01	Labour for breaking head of hardened cast in situ bored pile/pre-cast pile up to a required length by any means but without damaging the rest and removing the dismantled materials such as concrete to a safe distance including scraps and cleaning concrete from steel/M.S. rods, straightening and bending of pile bars, preparation and making platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the situ and clearing the bed etc. complete in all respect and accepted by the Engineer-in-charge. (Measurement will be given for the actual pile head volume to be broken) (PWD 09.7)	cum	3,694.86	3,615.72	3,364.94	3,364.94
5.23.08	Conducting static load test as per ASTM D1143 or equivalent standard for the cast-in-situ/pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, Kentledge and other plants and equipment including staging, mobilization, demobilization, hire charge, gunny bags, sand and filling sacs/gunny bags for loading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respect approved and accepted by the Engineer-in-charge (Minimum two cyclic loading; one at service load and another cycle at double the service load then to continue loading till failure of the pile). Before commencing load test, contractor shall submit method statement for conducting load test to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the Contractor of his responsibilities and obligations under Contract. Load test and report shall be conducted under the supervision of a professional Geotechnical Engineer registered in BPERB or Geotechnical firm registerd in PWD Boring and pouring logs / driving logs of piles and method statement shall be the part of load test report. (PWD 09.8)					
5.23.08.01	Mobilization & de-mobilization of testing equipment (PWD 09.8.1)	per site	5,800.78	5,800.78	5,297.17	5,297.17
5.23.08.02	Calibration of pressure gauge (PWD 09.8.2)	per site	6,810.06	6,810.06	6,810.06	6,810.06
5.23.08.03	For 50 tonne load (PWD 09.8.3)					
5.23.08.03.1	For first test at one site for one testing set (PWD 09.8.3.1)	per test	92,297.53	92,052.92	90,692.14	90,692.14
5.23.08.03.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.3.2)	per test	83,068.08	82,847.11	81,623.03	81,623.03
5.23.08.04	For 100 tonne load (PWD 09.8.4)					
5.23.08.04.1	For first test at one site for one testing set (PWD 09.8.4.1)	per test	153,968.31	153,754.53	151,891.17	151,891.17
5.23.08.04.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.4.2)	per test	138,571.17	138,378.97	136,701.64	136,701.64
5.23.08.05	For 150 tonne load (PWD 09.8.5)					
5.23.08.05.1	For first test at one site for one testing set (PWD 09.8.5.1)	per test	214,234.11	214,077.89	211,811.64	211,811.64
5.23.08.05.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.5.2)	per test	192,810.08	192,670.31	190,631.19	190,631.19
5.23.08.06	For 200 tonne load (PWD 09.8.6)					
5.23.08.06.1	For first test at one site for one testing set (PWD 09.8.6.1)	per test	276,644.89	276,496.89	273,689.00	273,689.00
5.23.08.06.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.6.2)	per test	248,980.19	248,846.58	246,320.31	246,320.31
5.23.08.07	For 250 tonne load (PWD 09.8.7)					
5.23.08.07.1	For first test at one site for one testing set (PWD 09.8.7.1)	per test	339,432.86	339,342.42	336,132.67	336,132.67
5.23.08.07.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.7.2)	per test	305,489.47	305,408.28	302,519.19	302,519.19
5.23.08.09	For 300 tonne load (PWD 09.8.8)					

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1	2	3	4	5	6	7
5.23.08.09.1	For first test at one site for one testing set (PWD 09.8.8.1)	per test	401,859.06	401,775.81	398,024.42	398,024.42
5.23.08.09.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.8.2)	per test	361,673.97	361,597.92	358,222.69	358,222.69
5.23.08.10	For 350 tonne load (PWD 09.8.9)					
5.23.08.10.1	For first test at one site for one testing set (PWD 09.8.9.1)	per test	462,124.86	462,099.17	457,945.92	457,945.92
5.23.08.10.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.9.2)	per test	415,912.89	415,889.25	412,151.22	412,151.22
5.23.08.11	For 400 tonne load (PWD 09.8.10)					
5.23.08.11.1	For first test at one site for one testing set (PWD 09.8.10.1)	per test	522,390.67	522,422.53	517,867.42	517,867.42
5.23.08.11.2	For 2nd & additional tests at same site for same testing set (PWD 09.8.10.2)	per test	470,151.81	470,179.56	466,080.78	466,080.78
5.23.08.12	Rate for incremental loading (PWD 09.9)					
5.23.08.12.1	For intermediate loading from 50 tonne to 100 tonne for each additional tonne (PWD 09.9.1)					
5.23.08.12.1.1	For first test at one site for one testing set (PWD 09.9.1.1)	tonne	1,233.33	1,234.36	1,224.08	1,224.08
5.23.08.12.1.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.1.2)	tonne	1,110.00	1,111.03	1,101.78	1,101.78
5.23.08.13	For intermediate loading from 100 tonne to 150 tonne for each additional tonne. (PWD 09.9.2)					
5.23.08.13.1	For first test at one site for one testing set (PWD 09.9.2.1)	tonne	1,205.58	1,206.61	1,198.39	1,198.39
5.23.08.13.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.2.2)	tonne	1,084.31	1,085.33	1,078.14	1,078.14
5.23.08.14	For intermediate loading from 150 tonne to 200 tonne for each additional tonne. (PWD 09.9.3)					
5.23.08.14.1	For first test at one site for one testing set (PWD 09.9.3.1)	tonne	1,247.72	1,248.75	1,237.44	1,237.44
5.23.08.14.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.3.2)	tonne	1,123.36	1,123.36	1,114.11	1,114.11
5.23.08.15	For intermediate loading from 200 tonne to 250 tonne for each additional tonne. (PWD 09.9.4)					
5.23.08.15.1	For first test at one site for one testing set (PWD 09.9.4.1)	tonne	1,255.94	1,256.97	1,248.75	1,248.75
5.23.08.15.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.4.2)	tonne	1,130.56	1,131.58	1,124.39	1,124.39
5.23.08.16	For intermediate loading from 250 tonne to 300 tonne for each additional tonne. (PWD 09.9.5)					
5.23.08.16.1	For first test at one site for one testing set (PWD 09.9.5.1)	tonne	1,248.75	1,248.75	1,237.44	1,237.44
5.23.08.16.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.5.2)	tonne	1,123.36	1,123.36	1,114.11	1,114.11
5.23.08.17	For intermediate loading from 300 tonne to 350 tonne for each additional tonne. (PWD 09.9.6)					
5.23.08.17.1	For first test at one site for one testing set (PWD 09.9.6.1)	tonne	1,205.58	1,206.61	1,198.39	1,198.39
5.23.08.17.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.6.2)	tonne	1,084.31	1,085.33	1,078.14	1,078.14
5.23.08.18	For intermediate loading from 350 tonne to 400 tonne for each additional tonne. (PWD 09.9.7)					
5.23.08.18.1	For first test at one site for one testing set (PWD 09.9.7.1)	tonne	1,205.58	1,206.61	1,198.39	1,198.39
5.23.08.18.2	For 2nd & additional tests at same site for same testing set (PWD 09.9.7.2)	tonne	1,084.31	1,085.33	1,078.14	1,078.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.23.09.01	Pre-cast pile made in reinforced cement concrete with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum f'cr = 38.5 Mpa, and satisfying specified compressive strength f'c = 30 Mpa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM & cement conforming to BDS EN-197-1-CEM-I (52.5 N) / ASTM-C 150 Type – I, best quality coarse sand (F.M.2.2), 20 mm down well graded crushed stone chips conforming to ASTM C-33, mixing in standard mixture machine and fed by standard measuring boxes, including all related works like screening through proper sieves, cleaning and washing, centering and placing reinforcement cages in position, casting, compacting by vibrators and tapered rods as where necessary, curing for 28 days etc. cost of water, electricity and other charges, providing fitting and fixing pile shoe in position, tools, plants & equipments, mobilization, demobilization, labour, test of materials and concrete etc. all complete as per design, drawing and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing) (PWD 09.10)	cum	15,583.17	15,736.31	14,465.97	14,829.81
5.23.10.01	Cost of bed preparation including one layer brick flat soling with first class/picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer-in-charge, Minimum 12 mm thick cement sand (F.M. 1.2) plaster with neat cement finishing with cement (1:4) including washing of sand, finishing the edges and corners and curing at least for 7 days, cost of water, electricity, scaffolding and other charges etc. all complete in all respect and accepted by the Engineer-in-charge (Cement: CEM-II/B-M) and polythene as separator between pile layers during casting concrete (PWD 09.11)	sqm	333.00	333.00	333.00	333.00
5.23.11.01	Centering and shuttering, including strutting, propping etc. (The formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets of minimum 18 BWG, angles of minimum size 1.5 x 1.5 x 3/16" for sides,angles of minimum size 1 x 1 x 3/16" for frames , 1.5" x 3/16" flat bars etc.) and removal of form for precast pile (The formwork is considered for two sides and front shuttering of the pile) (PWD 09.12)	sqm	420.36	420.36	409.06	409.06
5.23.12.01	Pre-cast pile shoe making & supplying pre-fabricated frustum of square cone having four sides and a toe made of 6 mm thick ASTM A36 complied MS steel plate jointed by line welding, 4 nos 12 mm dia deformed MS bar jointed by line welding with MS plate along the four edges of shoe aligning the corner main bar of the pile and 1-12mm dia bar to fix with and perpendicular to shoe toe plate aligning centre of pile, including cutting, shaping, sizing of MS plate and bar, all complete as per design & drawing and accepted by the Engineer-in-charge (PWD 09.13)	each	3,418.39	3,387.56	3,261.14	3,261.14
5.23.13.01	Mobilization and demobilization of drop hammer type pre-cast pile driving rig. (PWD 09.14)	per site	12,296.33	12,282.97	11,224.36	11,224.36
5.23.14.01	Driving 250 mm x 250 mm size pre-cast pile with drop hammer type rig, and maintaining driving log in prescibed format Before commencing driving operation, contractor shall submit method statement for carrying out the driving operation including sequence of driving to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.15)	m	528.28	522.11	502.58	502.58
5.23.15.01	Driving 300 mm x 300 mm to 350 mm x 350 mm size pre-cast pile with drop hammer type rig, and maintaining driving log in prescibed format Before commencing driving operation, contractor shall submit method statement for carrying out the driving operation including sequence of driving to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.16)	m	839.69	831.47	799.61	799.61

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1	2	3	4	5	6	7
5.23.16.01	Mobilization and demobilzation of automatic diesel hammer mounted complete rig set. (PWD 09.17)	per site	191,688.78	191,688.78	191,688.78	191,688.78
5.23.17.01	Driving 250 mm x 250 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.18)	m	725.61	721.50	710.19	710.19
5.23.18.01	Driving 300 mm x 300 mm & 350 mm x 350 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.19)	m	939.39	934.25	918.83	918.83
5.23.19.01	Driving 400 mm x 400 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.20)	m	1,064.78	1,058.61	1,041.14	1,041.14
5.23.20.01	Driving 450 mm x 450 mm size pre-cast pile by rig fitted with automatic diesel operated hammer. Before commencing driving operation by rig fitted with automatic diesel operated hammer, contractor shall submit method statement for carrying out the operation including sequence of driving to the Engineer-in-charge for approval. However, engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract. (PWD 09.9.21)	m	1,140.83	1,134.67	1,115.14	1,115.14
5.23.21	Pre-cast driven micro-pile with reinforced cement concrete works with minimum cement content relates to mix ratio 1:1.25:2.5 having minimum f'cr = 35 MPa, and satisfying a specified compressive strength f'c = 30 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM & cement conforming to BDS EN-197-1- CEM-I (32.5 to 52.5 N) / ASTM-C 150 Type – I, best quality coarse sand (F.M.2.5) and 20 mm down well-graded crushed stone chips conforming to ASTM C-33, mixing in standard mixture machine with hopper and fed by standard measuring boxes, including cost of breaking chips, screening through proper sieves, cleaning and washing, centering and shuttering with M.S sheet, M.S angle, F.I bar, nuts and bolts, preparation of bed, laying polythene, placing of reinforcement cage, casting, compacting by vibrators and tapered rods, curing for 28 days etc. including cost of water, electricity and other charges as per standard practice or specified method providing head cushion, all equipments including mobilization, demobilization and hire charge of driving set, champering, test of materials and concrete etc. including carrying all complete approved and accepted by the Engineer-in-charge. (Rate is excluding the cost of reinforcement and its fabrication, binding, welding and placing) (PWD 09.22)					
5.23.21.01	Casting of 180 mm x 180 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips (PWD 09.22.1)	m	642.36	646.47	603.31	614.61
5.23.21.02	Casting of 205 mm x 205 mm x 7.6 m Pile with reinforced cement concrete (1:1.25:2.5) with stone chips (PWD 09.22.2)	m	803.72	808.86	753.36	768.78
5.23.21.03	Driving of 180 mm x 180 mm x 7.6 m pre-cast pile (PWD 09.22.3)	m	223.03	220.97	212.75	212.75
5.23.21.04	Driving of 205 mm x 205 mm x 7.6 m pre-cast pile (PWD 09.22.4)	m	268.25	265.17	254.89	254.89

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.23.22.01	Supply of Cold-Drawn Wire Pre-stressed Concrete (CWPC) micro-pile which is made by using cold drawn wire minimum cement content relates to mix ratio 1:1.5:3 cement conforming to BDS EN-197-1-CEM-1, 52.5N (52.5MPa) / ASTM-C 150 type - 1, having minimum f'cr = 35 MPa and satisfying specified compressive strength f'c= 30 MPa at 28 days best quality coarse sand (F.M. 2.2), 20 mm down well graded stone chips conforming to ASTM C-33, mixing in standard mixture machine and fed by standard measuring boxes, including cost of all kind of reinforcement BDS ISO 6935-2:2006 including strengthening and cleaning rust if any bending and binding in position with supply of GI wires (24 BWG), centering and shuttering with M.S. sheet, M.S. angle, F.I. bar, nuts and bolts, preparation of bed, supplying & tensioning of cold drawn wire, laying polythene, placing of reinforcement cage in position, casting, compacting by vibrator and tapered rods, curing at least 28 days etc. including cost of water, electricity and other charges, proving pile shoe making with 20 BWG plane sheet, as per design and drawing including an equipments mobilization, demobilization champering edges if so including the cost of water electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge. (Excluding the cost of carrying and driving of pile). Maximum length: Up to 7620mm (fixed size x-section: 180 mm x 180 mm) (PWD 09.22.5)	m	1,394.69	1,386.47	1,337.14	1,343.31
5.23.23	PIT (Pile integrity test) : Conducting low strain dynamic testing of pile as per ASTM D5882-The standard method for low-strain integrity testing of pile by a qualified and approved PIT expert, preparing pile heads and providing all relevant materials, equipment, experts, labour, mobilization, demobilization, data acquisition and analysis, preparation of results in standard forms and compiling final report with recommendations on the tests etc. complete in all respect approved and accepted by the Engineer-in-charge. (Report shall contain driving log / boring and pouring logs, graphs & statement on "Callibration Pile" (pile that tested for its capacity and PIT done eralier on it, at a place of known soil profiles), soil investigation report. (Caliberation pile shall be made and tested first). Method statement for conducting PIT shall be submitted to the Engineer for approval, and shall be the part of PIT report, However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under contract [PWD 09.23]					
5.23.23.01	Mobilization and demobilization to site and PIT on12(twelve) piles or less	set	35,311.36	35,311.36	35,311.36	35,311.36
5.23.23.02	For PIT test of each additional pile after 12(Twelve) pile tested at same site	per pile	1,512.89	1,512.89	1,512.89	1,512.89
5.23.24	Pre-cast spliced pile jointing by supplying, fitting, fixing prefabricated square shaped two steel caps made up by 6 mm thick ASTM A36 complied M.S plate, sides formed by bent in channel shape to have only two line of joinery on faces, having min 50 mm dia hole on its web; capping by min 12 mm thick ASTM A36 complied M.S plate shaping the edges in 45°, having min 40 mm dia hole at centre to pass 25 mm M.S bar 433 mm in length; jointed at channels root by welding; caps fitted with 2 nos BDS ISO 6935-2009: B400 DWR complied d20 U-bar 1244mm in length by welding, equidistant from centre holes of cap and shall have min 75 mm clear from pile faces; and finally, the system to be fitted in correct alignments on pile head positions waiting for concreting; both the pile heads fitted with the steel caps to be welded together through v-notches in field, while one of the companion segment of piles drived in ground and other one placed over it maintaining true verticality; all complete as per direction and stepwise approval leading to final approval of Engineer-in- charge. (PWD 09.24)					
5.23.24.01	X-sec of pre cast pile segments :300 mm x 300 mm (PWD 09.24.1)	each	11,229.50	11,209.97	11,092.81	11,105.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.23.24.02	X-sec of pre cast pile segments :350 mm x 350 mm (PWD 09.24.2)	each	12,689.97	12,671.47	12,546.08	12,558.42
5.23.24.03	X-sec of pre cast pile segments :400 mm x 400 mm (PWD 09.24.3)	each	14,308.72	14,289.19	14,156.61	14,168.94
5.23.24.04	X-sec of pre cast pile segments :450 mm x 450 mm (PWD 09.24.4)	each	14,674.61	14,656.11	14,526.61	14,538.94
5.23.24.05	Pile Driving by Hydraulic Static Pile Driver (PWD 09.25)					
5.23.24.06	Mobilization and demobilzation of hydraulic static pile driver(Upto 320 metric ton capacity) (PWD 09.25.1)	per site	575,066.33	575,066.33	575,066.33	575,066.33
5.23.24.07	Mobilization and demobilzation of hydraulic static pile driver(321 Metric Ton to 500 Metric Ton Capacity) (PWD 09.25.2)	per site	690,079.81	690,079.81	690,079.81	690,079.81
5.23.25.01	Driving pre-cast pile of 300 mm x 300 mm to 350 mm x 350 mm X-section made with shoe/ without shoe by Hydraulic static pile driver of upto 320 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge. (PWD 09.25.2.1)	m	910.61	909.58	907.53	907.53
5.23.25.02	Driving pre-cast pile of 400 mm x 400 mm X-section made with shoe/ without shoe by hydraulic static pile driver of approx. 321 tonne to 500 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge. (PWD 09.25.2.2)	m	1,024.69	1,023.67	1,020.58	1,020.58
5.23.25.03	Driving pre-cast pile of 450 mm x 450 mm X-section made with shoe/ without shoe by hydraulic static pile driver of approx. 500 tonne (metric ton) capacity; arranged with necessary cranes, power source, maintaining driving log and record of pressure exerted on piles driven in to desired RL or capacity level ; complete in all respect including handling of piles, dressing & leveling of site, way making, surveying, layout setting etc ended with the submission of pile driving report in three copies duly signed by professional engineer and approved by the Engineer-in-charge. (PWD 09.25.2.3)	m	1,071.97	1,070.94	1,067.86	1,067.86
5.23.26.01	Mobilization and demobilization of Crane (crawler) and crane mounted Vibratory Hammer complete rig set. (PWD 09.26)	per site	153,350.61	153,350.61	153,350.61	153,350.61
5.23.27.01	Supplying U-shape hot rolled steel sheet pile of specified sections having chemical composition Phosphorus = 0.04% (Maximum), Sulphur = 0.04% (Maximum), and mechanical properties Tensile strength=> 490 N/mm2 ,Yield strength => 296 N/mm2, Elongation =15% (Minimum) (according to ASTM Standards), as specified by appropriate means to the construction site and stacking at proper place including loading, unloading, local handling as per specifications, including all taxes, freights, incidental charges etc. complete as per direction of the Engineer -in-chargeU-shape, hot-rolled steel sheet pile width = 400mm to 600mm: height => 100mm, length = 12.0m, Thickness >= 10.5mm, Thickness >= 13.0mm (±0.50mm), Thickness >= 15.5mm (±0.50mm), Thickness >= 17.0mm (±0.50mm)This rate excludes the cost of bed preparation. Sheet piles have to be unloaded on a firm flat base. (Salvage materials shall be the contractors property after completion of the work, rate is excluding the cost of driving and taking out). (PWD 09.27)	kg	53.44	53.44	53.44	53.44
5.23.28.01	Cutting (if necessary) charge of U-type Hot rolled steel sheet piles to design length and shape as per design and specification (thickness, length and mechanical properties) and instruction by all complete as per direction of the Engineer-in-charge. (PWD 09.28)	each	382.33	382.33	367.94	367.94

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.23.29.01	Jointing steel sheet piles (if necessary) of different thickness by welding along width (both sides) and along collars (outside) (i.e. at 4 points) to increase the length of pile as per requirement including necessary modification of the ends to receive the weld, supply of welding materials, equipments and other accessories as per specification and direction of Engineer in charge. (PWD 09.29)	each	508.75	506.69	489.22	489.22
5.23.30.01	Fabrication and construction of corner Joints in steel sheet piles including cutting, welding, shaping as per design and specification and as per requirement including supply of necessary welding materials, equipments and other accessories as per specification and direction of Engineer in charge. (PWD 09.30)	each	231.25	231.25	227.14	227.14
5.23.31	Driving steel sheet piles (PWD 09.31)					
5.23.31.01	Driving steel sheet piles (up to 6.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.31.1)	sqm	1,139.81	1,145.97	1,139.81	1,139.81
5.23.31.02	Driving steel sheet piles (beyond 6.0m up to 9.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.31.2)	sqm	1,052.44	1,057.58	1,052.44	1,052.44
5.23.31.03	Driving steel sheet piles (beyond 9.0m up to 12.0m depth) of various sections and weights in any type of soil by mechanical device (Crawler Crane having 50 to 55 Ton capacity and Vibratory Hammer etc.) including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.31.2)	sqm	1,025.72	1,030.86	1,026.75	1,026.75
5.23.32	Lifting steel sheet piles (PWD 09.32)					
5.23.32.01	Lifting steel sheet piles (up to 6.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.32.1)	sqm	934.25	942.47	935.28	935.28
5.23.32.02	Lifting steel sheet piles (beyond 6.0m up to 9.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.32.2)	sqm	969.19	977.42	969.19	969.19
5.23.32.03	Lifting steel sheet piles (beyond 9.0m up to 12.0m depth) of any section and weights from any type of soil by mechanical device including supply of all equipments etc., handling and placing in stacks etc. all complete as per direction of Engineer in charge (measurement will be taken on projected width x height). (PWD 09.32.3)	sqm	1,090.47	1,099.72	1,090.47	1,090.47
5.23.33.01	Mobilization & demobilization of joist driving rig (PWD 09.33)	per site	9,736.14	9,736.14	9,736.14	9,736.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.23.34.01	Driving joist (up to 6.5m depth) of any sections and weights in any type of soil by mechanical device including handling and placing in position, supply of all materials and equipments related with driving of sheet piles, correcting leaning beyond tolerance and other defects etc. all complete as per direction of Engineer in charge (measurement will be taken on meter). (PWD 09.34)	m	411.11	407.00	393.64	393.64
Section 24 : Sub-Soil Investigation Works & Digital Survey						
5.24.01	Mobilization and demobilization of boring equipment and man-power: at site (drilling rig comprising drilling pipe, drop hammer, tripod, pulley, chain, wrange, sample collection devices etc tools and plants; tripol for temporary camp, necessary work-force etc) (Once for one site) [PWD 31.1]	per site	15,110.39	14,990.14	14,647.89	14,647.89
5.24.02	Sub - Soil investigation by 100 mm dia percussion wash boring including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, analysing physical parameters of soils like Atterberg limits, specific gravity, gain size distribution(by wet seive, hydrometer if required) , ground water table location, direct shear test, unconfined compression test, unit weight(dry/weight), natural moisture content ; C - ϕ values and other strength parameters to ascertain bearing capacity , skin friction, end bearings etc at every 1.5m intervel as per respective national/international standards and entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office.[PWD 31.2]					
5.24.02.01	Bore hole depth from 0 to 20 m [PWD 31.2.1]	per bore hole	34,811.86	34,658.72	34,182.86	34,182.86
5.24.02.02	Additional charge for bore hole depth above 20.0 m and upto 30.0 m [PWD 31.2.2]	m	508.75	504.64	493.33	493.33
5.24.02.03	Additional charge for bore hole depth above 30.0 m and upto 40.0 m [PWD 31.2.3]	m	555.00	549.86	537.53	537.53
5.24.02.04	Additional charge for bore hole depth above 40.0 m and upto 50.0 m [PWD 31.2.4]	m	585.83	580.69	568.36	568.36
5.24.03	Percussion Method of Drilling, Sub-soil investigation by 100 mm dia wash boring including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, and entering all these data & information in necessary tables & graphs, furnishing them in the form of standard sub-soil investigation report duly signed by competent engineer & exploratory office.(Only after written advice from concerned design division/circle) [PWD 31.3]					
5.24.03.1	Bore hole depth from 0 to 20m [PWD 31.3.1]	per bore hole	9,558.33	9,482.28	9,293.17	9,293.17
5.24.03.2	Additional charge for bore hole depth above 20.0 m and upto 30.0 m [PWD 31.3.2]	m	419.33	415.22	404.94	404.94
5.24.03.3	Additional charge for bore hole depth above 30.0 m and upto 40.0 m [PWD 31.3.3]	m	465.58	460.44	449.14	449.14
5.24.03.4	Additional charge for bore hole depth above 40.0 m and upto 50.0 m [PWD 31.3.4]	m	495.39	490.25	478.94	478.94
5.24.03.5	Added cost per bore hole, if the same is under water by more than 1.5 m in depth [PWD 31.4]	per bore hole	7,147.17	7,094.75	6,827.53	6,827.53

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.24.05	Rotary Method of Drilling, Mobilization and demobilization of boring equipment and man-power: at site (rotary hydraulic drilling rig comprising mud pump, drilling pipe, auto trip hammer, pulley, chain, wrange, sample collection devices (shelby tube, split spoon sampler) etc tools and plants; tripol for temporary camp, necessary work-force etc) (Once for one site) (Only after written advice from concerned design division/circle) [PWD 31.5]	per site	26,501.25	26,501.25	26,501.25	26,501.25
5.24.06	Rotary Method of Drilling, Sub - Soil investigation by 100 mm dia rotary wash boring and including collecting disturbed and undisturbed soil samples in numbers as required for classification of soil, conducting SPT using auto trip hammer, stratification of layers, analysing physical parameters of soils like Atterberg limits, specific gravity, gain size distribution(by wet seive, hydrometer if required) , ground water table location, direct shear test, unconfined compression test, unit weight(dry/weight), natural moisture content ; C - ϕ values and other strength parameters to ascertain bearing capacity , skin friction, end bearings etc at every 1.5m intervel as per respective national/international standards and entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office. (Only after written advice from concerned design division/circle) [PWD 31.6]					
5.24.06.1	Bore hole depth from 0 to 20 m [PWD 31.6.1]	per bore hole	54,313.94	54,313.94	54,313.94	54,313.94
5.24.06.2	Additional charge for bore hole depth above 20.0 m and upto 30.0 m [PWD 31.6.2]	m	925.00	925.00	925.00	925.00
5.24.06.3	Additional charge for bore hole depth above 30.0 m and upto 40.0 m [PWD 31.6.3]	m	1,056.56	1,056.56	1,056.56	1,056.56
5.24.06.4	Additional charge for bore hole depth above 40.0 m and upto 50.0 m [PWD 31.6.4]	m	1,191.19	1,191.19	1,191.19	1,191.19
5.24.07	Mobilization of downehole siesmic testing equipments such as a hammer weighing 10lb, a wooden Beam of L= 2.40m and B & t = 150mm, Receiver borehole pick with 3D geophones to measure the velocity and travel time of P and S wave inside the borehole and 2nos. 1D Geophone to measure surface velocity of P and S wave. Trigger: Sending signal to control unit to record First Arrival Time (FAT) and velocity of P and S wave.Control and Processing Unit with Laptop (Only after written advice from concerned design division/circle) [PWD 31.7]	per test	10,004.39	10,004.39	10,004.39	10,004.39
5.24.08	Downehole Siesmic Testing- The test is to be conducted in accordance to ASTM D7400-08 to determine the interval velocities (VS & VP) from arrival times of compression (P) and shear (S) seismic waves which are generated near surface and travel down to an array of vertically installed seismic sensors. This item includes the necessary cost for entering all these data & information in necessary tables & graphs and finally furnishing them in the form of standard sub-soil investigation report with CD containing video of sub-soil investigation operation of concerned site duly signed by competent engineer & exploratory office. (Only after written advice from concerned design division/circle) [PWD 31.8]					
5.24.08.1	For first test [PWD 31.8.1]	per test	129,028.25	129,028.25	129,028.25	129,028.25
5.24.08.2	For each consecutive test after first test [PWD 31.8.2]	per test	116,429.75	116,429.75	116,429.75	116,429.75

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.24.09	Conducting plate load test as per ASTM D1194 or equivalent standard providing required arrangement of three circular steel plates with minimum thickness of 25 mm and varying in diameter from 305 mm to 762 mm respectively or square steel bearing plates of equivalent area for minimum 50 tons loading capacity of hydraulic or mechanical jack assembly and applying load in 2 cycles with maintainging time interval of each loading increment of not less than 15 minutes. Continue each test until a peak load is reached or until the ratio of load increment to settlement increment reaches a minimum, steady magnitude. If sufficient load is available, continue the test until the total settlement reaches at least 10 percent of the plate diameter, unless a well defined failure load is observed and all other required materials, excavation, protection against collapse, preparation of test pit, calibration of hydrauic jacks with pressure guage (with an error not exceeding ± 2 % of the load increment used) & dial gauges (an accuracy of at least 0.25 mm.) including plants and equipment, platform for loading & unloading, mobilization, demobilization, hire charge of load testing equipment (joist, jacks and other necessary devices), gunny bags, filling with sand & stiching gunny bags, execution of tests by engineer, data acquisition and preparation of test results in standard forms and other incidental charges as per standard practice and procedures including submission of plate load test report, furnishing all graphs and charts and with CD containing video of sub-soil investigation operation of concerned site, all complete and accepted by the Engineer-in-charge.					
5.24.09.1	At least 03 no of tests must be conducted at one site. (Only after written advice from concern design division/circle) [PWD 31.9]	per test	93,064.25	92,796.00	91,377.67	91,377.67
5.24.09.2	Per test rate for conducting additional plate load test at the same site after first 03(Three) tests. [PWD 31.9.1]	per test	29,312.22	29,005.94	27,853.81	27,853.81
5.24.09.3	Additional charge per km (beyond 25 Km) outside Dhaka city (two ways)/any city for mobilization & demobilization [PWD 31.9.2]	km	198.36	198.36	198.36	198.36
5.24.10	Carrying out different tests on soil samples in BUET laboratory collected from the sub-soil investigation site accepted by the Engineer-in-Charge. (Only after written advice from concern design division/circle)[PWD 31.10]					
5.24.10.1	Void ratio [PWD 31.10.1]	set of test	7,913.89	7,913.89	7,913.89	7,913.89
5.24.10.2	Organic matter content [PWD 31.10.2]	set of test	4,625.00	4,625.00	4,625.00	4,625.00
5.24.10.3	Permeability for cohesive soil [PWD 31.10.3]	set of test	24,666.67	24,666.67	24,666.67	24,666.67
5.24.10.4	Permeability non-cohesive soil [PWD 31.10.4]	set of test	9,763.89	9,763.89	9,763.89	9,763.89
5.24.10.5	Consolidation test for cohesive soil [PWD 31.10.5]	set of test	24,666.67	24,666.67	24,666.67	24,666.67
5.24.10.6	Triaxial shear Test [PWD 31.10.6]					
5.24.10.6.1	Consolidated undrained triaxial test with pore pressure for cohesive and non co-hesive soil [PWD 31.10.6.1]	set of test	53,444.44	53,444.44	53,444.44	53,444.44
5.24.10.6.2	Consolidated undrained triaxial test without pore pressure for cohesive soil [PWD 31.10.6.2]	set of test	47,277.78	47,277.78	47,277.78	47,277.78
5.24.10.6.3	Consolidated drained triaxial test [PWD 31.10.6.3]	set of test	53,444.44	53,444.44	53,444.44	53,444.44
5.24.10.6.4	Unconsolidated undrained triaxial test without pore pressure[PWD 31.10.6.4]	set of test	24,666.67	24,666.67	24,666.67	24,666.67
5.24.10.7	One dimensional swelling / settlement potential of cohesive soil. [PWD 31.10.7]	set of test	10,277.78	10,277.78	10,277.78	10,277.78
5.24.10.8	Modified proctor compaction test [PWD 31.10.8]	set of test	20,555.56	20,555.56	20,555.56	20,555.56
5.24.11	Detail digital topographic & physical feature survey, Mobilization and demobilization of survey equipment and man-power: survey equipment comprising Total Station, RTK-GPS, level machine, Prism with stand, Tripod and others necessary tools & plants, triple for temporary camp and necessary work-force.[PWD 31.11.1]	per site	11,706.39	11,706.39	11,569.69	11,569.69

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.24.12	Detail digital topographic & physical feature survey, Detail digital topographic & physical feature survey of project area. The survey will cover the location and alignment of all topographic features inside the project area such as: Boundary, roads, exposed surface drains, walk ways, existing physical features such as trees, structures, exposed utility network etc. Spot land levels of the project area will be surveyed for contouring@ 5 m C/C. GPS should be used for establishing co-ordinate of global axis-Latitude/Longitude. Total station should be used for survey of spot level, detailed physical features etc. Field data shall be processed in GIS or Auto CAD Software. Finally layout map with all topographic and physical features shall be prepared using Auto CAD Software. All data & maps should be Submitted both in hard and soft format in 5(five) copy. [PWD 31.11.2]	acre	15,370.42	16,743.53	16,605.81	16,605.81
Section 25 : Chemical Admixture, Water-Proffing Membrane						
5.25.01	Supplying anti-termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURSBAN 20 EC I Liter in 19 liters of pure water) and spraying the emulsified mixture @ 5 liters per square meter of soil surface by chemical sprayer or by any other means to the sides and bottom of the foundation trench and over plinth filling or floor bed accepted by the Engineer-in-charge.[PWD 29.1]	sqm	346.36	346.36	345.33	345.33
5.25.02	Supplying anti termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURSBAN 20 EC I Liter in 19 liters of pure water) and using the same emulsified water as mixing water in cement-sand mortar of brick works in foundation and up to plinth and accepted by the Engineer-in-charge. [PWD 29.2]	cum	2,559.17	2,554.03	2,546.83	2,546.83
5.25.03	Supplying anti-termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water in required proportion (For DURSBAN 20 EC I Liter in 19 liters of pure water) and spraying the emulsified mixture with hand sprayer over both outside and inside back fill in foundation trenches @ 7.50 liters per sqm of the vertical surface area of the foundation wall accepted by the Engineer-in-charge. (The maximum depth of the back fill to be treated is 500 mm. and the measurement for depth should not be given more than 500 mm) [PWD 29.3]	sqm	518.00	516.97	515.94	515.94
5.25.04	Anti-termite treatment in existing super structures by making downwardly slanting holes at a required depth of 9" from the existing finished F.L/G.L inside and outside the building and applying the emulsion of anti termite chemicals, named DURS BAN 20 EC into the holes preparing chemical solution mixing with water at the ratio of chemical: water = 1:19 maintaining a dosage rate of 250 ml per hole including supplying all materials and repairing the holes all complete and accepted by the Engineer-in-charge. [PWD 29.4]	hole	78.11	77.08	72.97	72.97
5.25.05	Trench treatment for protection against incoming termites to the establishment through underground by making trench around existing building /structures at a required depth of 750 mm from existing level including supplying anti-termite chemicals named DURS BAN 20 EC / equivalent preparing the solution to be mixed with water in the ratio of chemical: water = 1:19, applying the solution into trench with the help of a chemical sprayer in three layers and each layer follows a 250 mm thick back-fill in trench etc all complete and accepted by the Engineer-in-charge. [PWD 29.5]	m	353.56	350.47	343.28	343.28

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.25.06	Fumigation treatment (Pest Control) against mosquitoes, flies, bees, cockroaches, spiders, silver fishes, lizards and other common pests and insects in wooden walls, bricks walls, floors, doors and windows, furniture fanlight, carpets, records, curtains, electrical conduits etc. with the application of fumigants such as Syngeata or NEOCIDOL-60 EC or similar chemically equivalent govt. registered pest control products preparing chemical solution mixing with water in the ratio of chemical: water = 1:100, applying with the help of electrically/mechanically operated jet fogging machine, swing fog, dyna fog, pneumatic hand sprayer, knap sac hand sprayer in air-tight position, after fumigation the surface will be kept remain at air-tight condition at least for 3 (three) hours etc. complete and accepted by the Engineer-in-charge. (Volume of the room will be considered towards measurement.) [PWD 29.6]	cum	48.31	48.31	46.25	46.25
5.25.07	Anti termite treatment of all wooden doorframes, window frames, wood paneling etc. by using DURS BAN 20 EC / equivalent emulsion in the ratio of 1 liter. DURS BAN 20 EC + 19 liters of Kerosene oil suitable for wood, plywood, particle board, hard board etc. on both surfaces by brush on both surfaces by brush-on-method etc. complete and accepted by the Engineer-in-charge. [PWD 29.7]	sqm	199.39	199.39	196.31	196.31
5.25.08	Anti-termite treatment of electric telephone wiring system by inserting a plugging materials (cotton, foam etc.) soaked in anti-termite chemical DURS BAN 20 EC / equivalent to an electric switch board point for all floors and spraying the emulsion (to be mixed at the ratio of 1 liters DURS BAN 20 EC + 19 liter of water) to the casings and grooving of electric wirings, telephone cables utility pipes etc. for all floors etc. complete and accepted by the Engineer-in-charge. [PWD 29.8]	board	335.06	330.94	325.81	325.81
5.25.09	Destruction of termite nest around an infested building, tree stumps in lawn with the treatment of DURS BAN 20 EC / equivalent by excavation of soil in affected area up to a depth of 1.5 meter, mixing the DURS BAN 20 EC / equivalent solution to be mixed with water in 1:19 ratio with the soil and laying the same in same place etc. all complete as per direction including. cost of all materials and chemicals etc. complete and accepted by the Engineer-in-charge. [PWD 29.9]	each	2,602.33	2,580.75	2,535.53	2,535.53
Section 26 : Arboriculture Works						
5.26.01	Labour charge for scraping lawn surface up to 38 mm depth by spade, picking up all sorts of brick bats, rubbish by suitable tools, removing the same by head load or by any other means and stacking the same to a safe distance beyond 300 m including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.1]	sqm	12.33	12.33	11.31	11.31
5.26.02	Preparation of ground to make ready for plantation by spading the ground to a depth of 150 mm to 230 mm beyond 38 mm deep scrapped ground by spade, breaking earth clods to powder by hammers, picking up all sorts of rubbish, unwanted grasses by suitable tools, carrying and spreading the surplus earth into low lying area including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.2]	sqm	24.67	23.64	21.58	21.58
5.26.03	Leveling and dressing of lawn area to proper slope and grade by spading the same including supplying tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.3]	sqm	8.22	8.22	8.22	8.22
5.26.04	Supply of best and approved quality alluvial loamy silty soil including loading, unloading at both ends, properly stacking at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge. [PWD 25.4]	cum	938.36	935.28	925.00	925.00
5.26.05	Supply well decomposed cow dung carried by trucks or any other means including loading, unloading at both ends, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge. [PWD 25.5]	cum	1,750.31	1,749.28	1,694.81	1,694.81

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1	2	3	4	5	6	7
5.26.06	Labour charge for spreading the alluvial loamy silty soil from the stacks at site on the lawn surface, leveling, dressing the same including supply all necessary tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.6]	cum	199.39	195.28	180.89	180.89
5.26.07	Added rate for lifting alluvial loamy silty soil/ decomposed cow dung work in additional floor: [PWD 25.7]					
5.26.07.1	Add for each additional floor up to 5th floor [PWD 25.7.1]	cum	85.31	84.28	78.11	78.11
5.26.07.2	Add for each additional floor from 6th floor to 9th floor [PWD 25.7.2]	cum	122.31	120.25	111.00	111.00
5.26.07.3	Add for each additional floor for 10th floor & above [PWD 25.7.3]	cum	159.31	156.22	144.92	144.92
5.26.08	Supply of lawn grass of approved quality by truck or by any other means, sorting the grass to proper size, washing the grass, dibbling the grass 6 mm to 50 mm apart, irrigation of lawn area till the grass grown at least for two months after plantation, weeding the undesirable grass, mowing the lawn grass by lawn mower up to two months after plantation, applying urea fertilizer on the lawn surface @ 1 kg per 9.29 sqm including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.8]	sqm	68.86	67.83	63.72	63.72
5.26.09	Labour charge for mixing well decomposed cow dung with alluvial loamy silty soil and excavated earth, removing the excess earth to safe distance including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.9]	cum	179.86	176.78	163.42	163.42
5.26.10	Supplying and providing, fitting & fixing bamboo jafry fencing by best quality muli bamboo split of 20 mm in width, having 75 mm x 75 mm mesh placed diagonally doing framing a square shape in both ways and both sides tightened with 2 x 4 Nos. same split horizontally and 2 x 6 Nos. same split vertically and with G.I wire fitted with Borrak bamboo post of 100 mm dia and placed firmly in position at 1800 mm apart including supply of tools and plants, digging hole and filling back etc. all complete and accepted by the Engineer-in-charge. [PWD 25.10]	sqm	565.28	565.28	549.86	549.86
5.26.11	Supplying and providing, fitting & fixing muli bamboo tree guard of 1200 mm length and 500 mm dia best quality muli bamboo split 20 mm in size having 75 mm x 75 mm a square holes with 20 mm wide bamboo splits strengthen with 4 Nos. 20 mm wide bamboo split in both sides tightened with G.I wire fitted with 3 Nos. 63 mm dia borrak bamboo post of 1800 mm long of which 600 mm will be driven into earth by digging hole followed by fill back including supply of tools and plants all complete as per direction of the Engineer-in-charge. [PWD 25.11]	each	803.72	803.72	791.39	791.39
5.26.12	Earth work in excavation to make a pit of 600 x 600 x 450 mm (depth) for plantation, applying cow dung mixing with loamy silty soil and excavated earth, planting the plants, tightened with 1800 mm long borrak bamboo post with jute rope and filled up the hole with mixed soil including supply of tools and plants all complete and accepted by the Engineer-in-charge. [PWD 25.12]	each	174.72	173.69	168.56	168.56
5.26.13	Spading for preparation of flower beds in pits up to 600 mm depth, re-molding, picking up and placing and removing the spaded earth to a safe distance, mixing @ 1 cft well decomposed cow dung with 20% loamy silty soil and 6 cft excavated soil and fill back the pit including supply of tools and plants, all complete and accepted by the Engineer-in-charge.[PWD 25.13]	sqm	582.75	577.61	548.83	548.83
5.26.14	Preparation of hedge beds by excavation of earth up to 300 mm depth, filling up the bed by a mixture of cow dung, loamy silty soil, cutted earth @ 1 cft cow dung manure per 6 cft of cutted earth and 20% loamy silty soil including supply of tools and plant etc. all complete and accepted by the Engineer-in-charge.[PWD 25.14]	sqm	287.78	285.72	271.33	271.33

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1	2	3	4	5	6	7
5.26.15	Carrying of rubbish, taking up all sorts of bricks, brick-bats and rubbish gravel chips, loading and unloading at both ends including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge. [PWD 25.15]	cum	182.94	179.86	166.50	166.50
5.26.16	Supply and carrying of 12.20 m long 100 mm dia borrak bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.16]	each	551.92	551.92	548.83	548.83
5.26.17	Supply and carrying of 7.62 m long 50 mm to 62.5 mm dia muli bamboo at site, loading and unloading at both end, stacking the same at site including supply of tools and plants etc. all complete and accepted by the Engineer-in-charge.[PWD 25.17]	each	291.89	290.86	288.81	288.81
5.26.18	Supply and carrying of 4.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A [PWD 25.18]	each	55,844.31	55,844.31	55,844.31	55,844.31
5.26.19	Supply and carrying of 6.5 h.p., 550 mm blade 4 stroke, finger trip 3 position height adjuster 200 mm x 38 mm star tread wheels grass cutting (Power Lawn Mower Machine): YARDMAN No. 060A [PWD 25.19]	each	74,459.42	74,459.42	74,459.42	74,459.42
5.26.20	Supply and carrying of 22 h.p. 1150 mm cutting blade power riding lawn yardman mower machine made in USA. Model No.13 BT 793G678 or equivalent. [PWD 25.20]	each	607,500.94	607,461.89	607,303.61	607,303.61
5.26.21	Supply and carrying of 450 mm blade Hand Lawn Moar, Model No.1403-106(USA) [PWD 25.21]	each	15,512.25	15,512.25	15,512.25	15,512.25
Section 27: Repair Works						
5.27.001	Stripping of unserviceable plaster including racking out joints, cleaning etc.[PWD 32.1]	sqm	31.86	30.83	28.78	28.78
5.27.002.1	Picking-up of unserviceable patent stone from floor and dado etc. and removal of debris to a safe distance. [PWD 32.2.1]	sqm	48.31	46.25	44.19	44.19
5.27.002.2	Picking-up of unserviceable tiles including bonding mortar from floor, walls and dado etc. and removal of debris to a safe distance.[PWD 32.2.2]	sqm	62.69	61.67	57.56	57.56
5.27.003	Picking up of damaged/unserviceable terraced (lime concrete) floor or roof etc. and removal of debris to a safe distance.[PWD 32.3]	sqm	66.81	64.75	60.64	60.64
5.27.004	Dismantling of unserviceable/damaged terraced roof including beam, column, borga & tiles etc. and removal of debris to a safe distance.[PWD 32.4]	sqm	168.56	165.47	157.25	157.25
5.27.005.1.1	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 250 mm in foundation and superstructure and removal of debris to a safe distance.[PWD 32.5.1.1]	cum	552.94	538.56	504.64	504.64
5.27.005.1.2	Dismantling of unserviceable/damaged brick works (with cement or lime mortar) of thickness 75/125 mm in foundation and superstructure and removal of debris to a safe distance.[PWD 32.5.1.2]	sqm	63.72	62.69	58.58	58.58
5.27.005.2	Dismantling of plain concrete made of lime or cement and removal of debris to a safe distance.[PWD 32.5.2]	cum	1,692.75	1,650.61	1,544.75	1,544.75
5.27.005.3	Dismantling of brick flat soling and removal of debris to a safe distance and removal of debris to a safe distance.[PWD 32.5.3]	sqm	18.50	17.47	16.44	16.44
5.27.005.4	Dismantling of H.B.B. Brick soling and removal of debris to a safe distance and removal of debris to a safe distance.[PWD 32.5.4]	sqm	24.67	23.64	21.58	21.58
5.27.006.1.1	Dismantling of R.C.C. beam, lintel, column, drop wall, sun shade from any height and removal of debris to a safe distance.[PWD 32.6.1.1]	cum	4,037.11	3,947.69	3,712.33	3,712.33
5.27.006.1.2	Dismantling of R.C.C. Railing of any kind, jally brickwork, and hollow block wall from any height and removal of debris to a safe distance.[PWD 32.6.1.2]	sqm	224.06	219.94	207.61	207.61

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.006.2	Dismantling of R.C.C. in roof slab and removal of debris to a safe distance.[PWD 32.6.2]	cum	3,411.19	3,334.11	3,150.14	3,150.14
5.27.006.3	Recovery of reinforcing bars and metals during dismantling of RCC including cleaning, making bundle, stacking or storing as per direction of engineer in charge and removal of debris to a safe distance.[PWD 32.6.3]	quintal	567.33	555.00	516.97	516.97
5.27.006.4	Recovery of bricks during dismantling of brick works including cleaning, stacking or storing etc. all complete as per direction of engineer in charge and removal of debris to a safe distance.[PWD 32.6.4]	nos	1.53	1.50	1.39	1.39
5.27.006.5	Recovery of bricks during dismantling of soling including cleaning, stacking or storing all complete as per direction of engineer in charge and removal of debris to a safe distance.[PWD 32.6.5]	nos	1.02	1.01	0.94	0.94
5.27.006.6	Recovery of brick bats during dismantling of soling, brick works, HBB etc. including cleaning, stacking or storing as per direction of engineer in charge and removal of debris to a safe distance.[PWD 32.6.6]	cum	256.94	251.81	233.31	233.31
5.27.007	Repairs to minor/fine (non-structural affecting aesthetic) cracks in brick walls, floor and roof etc.[PWD 32.7]	m	43.17	43.17	40.08	40.08
5.27.008.1	Cutting and polishing of old mosaic on wall with pumice stone etc.[PWD 32.8.1]	sqm	102.78	100.72	94.56	94.56
5.27.008.2	Cutting and polishing of old mosaic on floor with pumice stone and mosaic cutting machine etc.[PWD 32.8.2]	sqm	115.11	113.06	108.94	108.94
5.27.008.3	Cleaning and washing the mosaic floor etc.[PWD 32.8.3]	sqm	20.56	19.53	18.50	18.50
5.27.008.4	Cleaning and refilling of wornout joints between glazed tiles, marble etc. in floor or walls.[PWD 32.8.4]	sqm	72.97	70.92	66.81	66.81
5.27.009	Repairing of terraced roof cracks by cutting in 'traphozoided' shape[PWD 32.9]	m	565.28	556.03	524.17	524.17
5.27.010	Taking out and relaying of old brick soling including replacement of 10% brick[PWD 32.10]	sqm	142.86	141.83	133.61	133.61
5.27.011	Taking out and relaying of brick soling after redressing the surfaces[PWD 32.11]	sqm	87.36	86.33	80.17	80.17
5.27.012.1	Taking out of old brick on edge pavement and resetting (Herring bone bond) including replacement of 10% brick [PWD 32.12.1]	sqm	234.33	233.31	218.92	218.92
5.27.012.2	Taking out of old brick on edge pavement and restting Herring bone bond and redressing the surface[PWD 32.12.2]	sqm	120.25	119.22	109.97	109.97
5.27.013	Taking out of old roof tiles and ridges [PWD 32.13]	sqm	68.86	66.81	62.69	62.69
5.27.014	Supplying and fitting-fixing of wind tie with M.S. Flat bar clamp [PWD 32.14]	m	584.81	581.72	569.39	569.39
5.27.015	Supplying and fitting-fixing of J-hook including nuts, washers [PWD 32.15]	each	57.56	57.56	55.50	55.50
5.27.016	Supplying and fitting-fixing of M.S. U-hook including nuts, washers [PWD 32.16]	each	76.06	76.06	75.03	75.03
5.27.017	Taking out of old & unserviceable wooden chowkat /door or window frame [PWD 32.17]	each	337.11	326.83	309.36	309.36
5.27.018	Taking out of old wooden chowkat/door or window frame and refitting and refixing after minor repair (excluding the cost of wood and M.S. clamp) [PWD 32.18]	each	1,087.39	1,070.94	999.00	999.00
5.27.019	Taking out and refitting of wooden shutter after easing excluding the cost of wood [PWD 32.19]	sqm	462.50	457.36	424.47	424.47
5.27.020.1	Thorough repairs to wooden door and window Pannel shutter excluding the cost of wood [PWD 32.20.1]	sqm	750.28	743.08	690.67	690.67
5.27.020.2	Thorough repairs to wooden door and window Batten shutter excluding the cost of wood [PWD 32.20.2]	sqm	695.81	689.64	643.39	643.39

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1	2	3	4	5	6	7
5.27.020.3	Thorough repairs to wooden door and window Venetian shutter excluding the cost of wood [PWD 32.20.3]	sqm	675.25	669.08	621.81	621.81
5.27.020.4	Thorough repairs to wooden door and window Glazed shutter excluding the cost of glass & wood [PWD 32.20.4]	sqm	644.42	639.28	594.06	594.06
5.27.021.1	Renewing of 3 mm glass panes in wooden frame including supply of glass [PWD 32.21.1]	sqm	1,052.44	1,048.33	1,027.78	1,027.78
5.27.021.2	Renewing of 3 mm glass panes in steel frame including supply of glass[PWD 32.21.2]	sqm	1,161.39	1,156.25	1,133.64	1,133.64
5.27.022	Renewing of 5 mm glass panes including supply of glass [PWD 32.22]	sqm	1,385.44	1,381.33	1,365.92	1,365.92
5.27.023	Cleaning and washing of glass panes including supply of necessary fresh putty, pins etc.[PWD 32.23]	pane	4.11	3.08	3.08	3.08
5.27.024.1	Replacing / renewing of fly proof wire net (with all new materials) the excluding cost of wood [PWD 32.24.1]	sqm	789.33	788.31	746.17	746.17
5.27.024.2	Replacing / renewing of synthetic fly proof net (with all new materials) the excluding cost of wood[PWD 32.24.2]	sqm	817.08	817.08	773.92	773.92
5.27.025	Renewing of fly proof wire netting (with old and new materials) the excluding cost of wood [PWD 32.25]	sqm	757.47	756.44	714.31	714.31
5.27.026	Renewing of 12 x 12 mm mesh wire netting the excluding cost of wood [PWD 32.26]	sqm	647.50	646.47	611.53	611.53
5.27.027	Taking out of hard board ceiling, walling [PWD 32.27]	sqm	22.61	21.58	20.56	20.56
5.27.028	Renewing of hard board ceiling or walling excluding cost of wood [PWD 32.28]	sqm	675.25	674.22	645.44	645.44
5.27.029	Replacing of wooden cleat, making, finishing and fixing with chowkat by means of 40 mm hinge [PWD 32.29]	each	82.22	81.19	81.19	81.19
5.27.030	Replacing of cleat with brass hinge [PWD 32.30]	each	91.47	90.44	89.42	89.42
5.27.031	Replacing of wooden buffer block[PWD 32.31]	each	61.67	60.64	60.64	60.64
5.27.032	Replacig of wooden catcher block [PWD 32.32]	each	90.44	89.42	90.44	90.44
5.27.033.1	Replacing of 75 mm long galvanized iron catch hook [PWD 32.33.1]	each	17.47	17.47	16.44	16.44
5.27.033.2	Replacing of 100 mm long galvanized iron catch hook [PWD 32.33.2]	each	19.53	19.53	19.53	19.53
5.27.033.3	Replacing of 150 mm long galvanized iron catch hook [PWD 32.33.3]	each	22.61	22.61	21.58	21.58
5.27.033.4	Replacing of 200 mm long galvanized iron catch hook [PWD 32.33.4]	each	24.67	24.67	23.64	23.64
5.27.033.5	Replacing of 225 mm long galvanized iron catch hook [PWD 32.33.5]	each	32.89	32.89	31.86	31.86
5.27.034	Replacing of iron socket bolt : 50 mm dia, 100 mm long [PWD 32.34]	each	30.83	30.83	29.81	29.81
5.27.035.1	Replacing of SS socket bolt : 50 mm dia, 100 mm long (SS) [PWD 32.35.1]	each	67.83	67.83	66.81	66.81
5.27.035.2	Replacing of iron socket bolt : 50 mm dia, 150 mm long [PWD 32.35.2]	each	37.00	37.00	35.97	35.97
5.27.035.3	Replacing of SS socket bolt : 50 mm dia, 150 mm long(SS) [PWD 32.35.3]	each	96.61	96.61	95.58	95.58
5.27.035.4	Replacing of iron socket bolt : 50 mm dia, 200 mm long [PWD 32.35.4]	each	52.42	52.42	52.42	52.42
5.27.035.5	Replacing of SS socket bolt : 50 mm dia, 200 mm long(SS)[PWD 32.35.5]	each	121.28	121.28	120.25	120.25
5.27.036.1	Replacing of brass socket bolt: 50 mm dia, 150 mm long[PWD 32.36.1]	each	174.72	174.72	174.72	174.72
5.27.036.2	Replacing of brass socket bolt : 50 mm dia, 200 mm long [PWD 32.36.2]	each	223.03	223.03	222.00	222.00

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1	2	3	4	5	6	7
5.27.036.3	Replacing of brass socket bolt : 50 mm dia, 250 mm long [PWD 32.36.3]	each	273.39	273.39	272.36	272.36
5.27.037.1	Replacing of 75 mm long iron hinge [PWD 32.37.1]	each	53.44	53.44	52.42	52.42
5.27.037.2	Replacing of 100 mm long iron hinge [PWD 32.37.2]	each	84.28	84.28	83.25	83.25
5.27.038.1	Replacing of 75 mm long brass hinge [PWD 32.38.1]	each	168.56	168.56	167.53	167.53
5.27.038.2	Replacing of 100 mm long brass hinge [PWD 32.38.2]	each	223.03	223.03	222.00	222.00
5.27.039.1	Replacing of 50 mm dia iron ring [PWD 32.39.1]	each	32.89	32.89	31.86	31.86
5.27.039.2	Replacing of 50 mm dia brass ring [PWD 32.39.2]	each	66.81	66.81	65.78	65.78
5.27.040.1	Supplying, fitting and fixing of 25 x 25 mm expanded mesh metal net of wooden or steel frame (excluding the cost of wood or steel sections and painting) [PWD 32.40.1]	sqm	1,138.78	1,137.75	1,070.94	1,070.94
5.27.040.2	Supplying, fitting and fixing of 25 x 25 mm expanded mesh metal net in F.I. Bar frame (including the cost of F.I. Bar) [PWD 32.40.2]	sqm	2,140.86	2,139.83	2,055.56	2,055.56
5.27.041.1	Renewing of white washing: 1 coat [PWD 32.41.1]	sqm	15.42	15.42	14.39	14.39
5.27.041.2	Renewing of white washing: 2 coats [PWD 32.41.2]	sqm	22.61	22.61	20.56	20.56
5.27.042.1	Renewing of colour washing with yellow ochre: 1 coat [PWD 32.42.1]	sqm	23.64	23.64	22.61	22.61
5.27.042.2	Renewing of colour washing with yellow ochre: 2 coats [PWD 32.42.2]	sqm	26.72	26.72	24.67	24.67
5.27.043.1	Renewing of Exterior standard acrylic emulsion paint of approved brand and quality [PWD 32.43.1]	sqm	157.25	156.22	148.00	148.00
5.27.043.2	Renewing of Exterior premium acrylic emulsion paint of approved brand and quality [PWD 32.43.2]	sqm	181.92	179.86	170.61	170.61
5.27.044.1	Renewing of standard synthetic enamel paint to door-windows frame and shutter:1coats [PWD 32.44.1]	sqm	122.31	121.28	114.08	114.08
5.27.044.2	Renewing of premium synthetic enamel paint to door-windows frame and shutter: 1coats [PWD 32.44.2]	sqm	126.42	125.39	118.19	118.19
5.27.045.1	Renewing of standard synthetic enamel paint to door-windows frame and shutter: 2 coat [PWD 32.45.1]	sqm	188.08	186.03	174.72	174.72
5.27.045.2	Renewing of premium synthetic enamel paint to door-windows frame and shutter: 2coat [PWD 32.45.2]	sqm	196.31	194.25	182.94	182.94
5.27.046.1	Renewing of synthetic polyvinyl distemper : 1 coats [PWD 32.46.1]	sqm	98.67	97.64	91.47	91.47
5.27.046.2	Renewing of synthetic polyvinyl distemper : 2 coat [PWD 32.46.2]	sqm	141.83	140.81	131.56	131.56
5.27.047.1	Renewing of Interior standard acrylic emulsion paint (Plastic) to walls and ceiling: 1 coat [PWD 32.47.1]	sqm	111.00	109.97	103.81	103.81
5.27.047.2	Renewing of Interior Premium acrylic emulsion painting (silky finish)to walls and ceiling: 1 coat [PWD 32.47.2]	sqm	127.44	127.44	120.25	120.25
5.27.047.3	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling: 1 coat [PWD 32.47.3]	sqm	148.00	146.97	140.81	140.81
5.27.048.1	Renewing of Interior standard acrylic emulsion paint (Plastic) to walls and ceiling: 2 coat [PWD 32.48.1]	sqm	159.31	158.28	149.03	149.03
5.27.048.2	Renewing of Interior Premium acrylic emulsion painting (silky finish)to walls and ceiling: 2 coat [PWD 32.48.2]	sqm	183.97	182.94	173.69	173.69
5.27.048.3	Renewing of Interior super premium acrylic emulsion painting (odorless) to walls and ceiling 2 coat [PWD 32.48.3]	sqm	204.53	203.50	194.25	194.25
5.27.049	Washing of painted wall surface with suitable soap or any other detergent [PWD 32.49]	sqm	37.00	35.97	33.92	33.92
5.27.050.1	Renewing of chlorinated rubber paint: 1 coats [PWD 32.50.1]	sqm	196.31	195.28	186.03	186.03
5.27.050.2	Renewing of chlorinated rubber paint: 2 coat[PWD 32.50.2]	sqm	281.61	279.56	266.19	266.19

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.051.1	Renewing of french polishing: 1 coats [PWD 32.51.1]	sqm	133.61	132.58	126.42	126.42
5.27.051.2	Renewing of french polishing: 2 coat [PWD 32.51.2]	sqm	229.19	228.17	217.89	217.89
5.27.051.3	Providing of 2 coats laqure spray painting with spray machine to high decorative Teak or similar wooden furniture [PWD 32.51.3]	sqm	186.03	185.00	178.83	178.83
5.27.052.1	Renewing of painting with synthetic black enamel Paint to plinth and skirting :1 coats [PWD 32.52.1]	sqm	120.25	119.22	113.06	113.06
5.27.052.2	Renewing of painting with synthetic black enamel Paint to plinth and skirting :2 coat [PWD 32.52.2]	sqm	172.67	170.61	161.36	161.36
5.27.053	Renewing of painting to C.I. Roof with red corrugal paint: 2 coats [PWD 32.53]	sqm	166.50	165.47	156.22	156.22
5.27.054.1	Renewing earth oiling with solignum or equivalent materials: 1 coat [PWD 32.54.1]	sqm	99.69	98.67	92.50	92.50
5.27.054.2	Renewing earth oiling with solignum or equivalent materials: 2 coat [PWD 32.54.2]	sqm	149.03	148.00	139.78	139.78
5.27.055.1	Renewing of wood varnishing with varnish (yacht) [PWD 32.55.1]	sqm	119.22	119.22	113.06	113.06
5.27.055.2	Renewing of wood varnishing with varnish (egg-shell) [PWD 32.55.2]	sqm	126.42	125.39	119.22	119.22
5.27.055.3	Renewing of wood varnishing with varnish (matt) [PWD 32.55.3]	sqm	127.44	127.44	120.25	120.25
5.27.056	Scrapping of old paint from wood [PWD 32.56]	sqm	48.31	47.28	44.19	44.19
5.27.057	Scrapping of old mosses from wall and roof [PWD 32.57]	sqm	34.94	34.94	31.86	31.86
5.27.058	Renewing of painting to old 100 mm dia rain-water pipe [PWD 32.58]	m	40.08	39.06	37.00	37.00
5.27.059	Renewing of painting to old 50mm dia G.I. Pipe: 1 coat [PWD 32.59]	m	20.56	20.56	18.50	18.50
5.27.060	Stopping of roof leakage of C.I. sheet roof with putty [PWD 32.60]	sqm	32.89	31.86	29.81	29.81
5.27.061	Labour for taking out C.I. sheet roofing [PWD 32.61]	sqm	41.11	40.08	38.03	38.03
5.27.062	Labour for taking out and refitting of old G.I. Ridge/valley [PWD 32.62]	m	164.44	162.39	151.08	151.08
5.27.063	Labour for C.I. Sheet roofing including supply of limpet, washer, screws, putty etc. [PWD 32.63]	sqm	130.53	127.44	118.19	118.19
5.27.064	Labour for C.I. Sheet walling including supply of limpet, washer, screws, putty etc.[PWD 32.64]	sqm	97.64	95.58	88.39	88.39
5.27.065	Labour for taking out barbed wire fencing [PWD 32.65]	m	9.25	9.25	8.22	8.22
5.27.066	Labour charge for refitting of barbed wire fencing[PWD 32.66	m	19.53	19.53	18.50	18.50
5.27.067	Labour charge for tightening of old loose barbed wire fencing[PWD 32.67]	m	2.06	2.06	2.06	2.06
5.27.068	Renewing, supplying and fitting-fixing of 300 mm long F.I. Clamp in CC (1:2:4)[PWD 32.68]	each	119.22	119.22	115.11	115.11
5.27.069	Renewing, supplying and fitting-fixing of 150 mm long F.I. Clamp in CC (1:2:4)[PWD 32.69]	each	81.19	80.17	77.08	77.08
5.27.070	Cutting jungles and shrub including removing and cleaning the spot/site[PWD 32.70]	sqm	7.19	7.19	6.17	6.17
5.27.071	Supplying of the following items related to ARBORICULTURE work approved by the officer-in-charge[PWD 32.71]					
5.27.071.01	200mm size earthen tub [PWD 32.71.1]	each	53.44	53.44	53.44	53.44
5.27.071.02	250mm size earthen tub [PWD 32.71.2]	each	62.69	62.69	62.69	62.69
5.27.071.03	300mm size earthen tub [PWD 32.71.3]	each	88.39	88.39	88.39	88.39
5.27.071.04	350mm size earthen tub [PWD 32.71.4]	each	120.25	120.25	120.25	120.25
5.27.071.05	400mm size earthen tub [PWD 32.71.5]	each	207.61	207.61	207.61	207.61

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.071.06	300 mm x 300 mm size earthen plate [PWD 32.71.6]	each	38.03	38.03	38.03	38.03
5.27.071.07	Supply of mustard oil-cake [PWD 32.71.7]	kg	57.56	57.56	57.56	57.56
5.27.071.08	Supply of Bone mele [PWD 32.71.8]	kg	56.53	56.53	56.53	56.53
5.27.071.09	Supply of steel spade [PWD 32.71.9]	each	567.33	567.33	567.33	567.33
5.27.071.10	Supply of Urea fertilizer [PWD 32.71.10]	kg	31.86	31.86	31.86	31.86
5.27.071.11	Supply of Murate of potash [PWD 32.71.11]	kg	27.75	27.75	27.75	27.75
5.27.071.12	Supply of T. S. P. [PWD 32.71.12]	kg	38.03	38.03	38.03	38.03
5.27.071.13	Supply of 5 liter capacity spray machine (plaotic) [PWD 32.71.13]	each	2,270.36	2,270.36	2,270.36	2,270.36
5.27.071.14	Supply of 450 mm size Steel funna with wooden handle [PWD 32.71.14]	each	466.61	466.61	466.61	466.61
5.27.071.15	Supply of 225 mm long hand hoe with wooden handle [PWD 32.71.15]	each	126.42	126.42	126.42	126.42
5.27.071.16	Supply of standard steel hand trolly as per direction of officer-in-charge [PWD 32.71.16]	each	7,819.33	7,819.33	7,819.33	7,819.33
5.27.071.17	Supply of China made or equivalent Hedge Scissors [PWD 32.71.17]	each	1,512.89	1,512.89	1,512.89	1,512.89
5.27.071.18	Supply of 250 mm size China made or equivalent Secature [PWD 32.71.18]	each	820.17	820.17	820.17	820.17
5.27.071.19	Supply of 2.5 gallon capacity 22 BWG G.I. Water cane [PWD 32.71.19]	each	440.92	440.92	440.92	440.92
5.27.071.20	Supply of 350 mm size G.I. bucket [PWD 32.71.20]	each	353.56	353.56	353.56	353.56
5.27.071.21	Supply of best quality 19 mm dia plastic hose pipe [PWD 32.71.21]	each	22.61	22.61	22.61	22.61
5.27.071.22	Supply of insecide perfecthion 40 EC 1 pics, 100ml bottle [PWD 32.71.22]	each	309.36	309.36	309.36	309.36
5.27.071.23	Supply of Redomil gold 68WG (metalexil+mencojeb) 1 pack, 500gm pack [PWD 32.71.23]	each	1,040.11	1,040.11	1,040.11	1,040.11
5.27.071.24	Supply of Ripcord 400EC, 1 pics, 100ml bottle [PWD 32.71.24]	each	277.50	277.50	277.50	277.50
5.27.071.25	Supply of Proclaim 5SG(emamectin benzoet) 1 box, (10 pack, each pack 10gm) [PWD 32.71.25]	each	800.64	800.64	800.64	800.64
5.27.071.26	Supply of Vertimec 018ECG (ebamectin) 1 pics, 50ml bottle [PWD 32.71.26]	each	151.08	151.08	151.08	151.08
5.27.072	Painting to earthen tub: 2 coats over a prime coat [PWD 32.72]					
5.27.072.1	200mm and 250mm size tub [PWD 32.72.1]	each	22.61	22.61	20.56	20.56
5.27.072.2	300 mm, 350mm and 400 mm size tub [PWD 32.72.2]	each	35.97	34.94	33.92	33.92
5.27.073.1	Levelling & dressing the compound or plant/flower bed as per direction of Engineer-in-charge. [PWD 32.73.1]	sqm	9.25	9.25	8.22	8.22
5.27.073.2	Lawn grass cutting, dressing, brooming and removing debris etc. as per direction of Officer in charge [PWD 32.73.2]	sqm	17.47	16.44	15.42	15.42
5.27.073.3	Spading, pulverizing soil lump etc. as per direction of Officer in charge [PWD 32.73.3]	sqm	6.17	6.17	5.14	5.14
5.27.074.1	Labour for picking-up and cleaning damaged bituminous road surface [PWD 32.74.1]	sqm	79.14	78.11	71.94	71.94
5.27.074.2	Repairing the potholes of the road by picking up and removing damaged materials with stone chips [PWD 32.74.2]	cum	35,563.17	35,289.78	33,639.17	34,036.92
5.27.075	Applying necessary coat of bitumenous aluminium paint seal-coat on top surface of newly laid roofing felt [PWD 32.75]	sqm	108.94	107.92	103.81	103.81
5.27.076.01	Supplying timber (unfinished) for repairing in wood works: Garjan/Jam/local Sal [PWD 32.76.1]	cum	97,979.08	93,525.72	100,206.28	100,206.28

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.076.02	Supplying timber (unfinished) for repairing in wood works: Jarul[PWD 32.76.2]	cum	80,164.61	80,164.61	80,164.61	80,164.61
5.27.076.03	Supplying timber (unfinished) for repairing in wood works: Shilkorai/Chickrashi[PWD 32.76.3]	cum	111,340.19	111,340.19	111,340.19	111,340.19
5.27.076.04	Supplying timber (unfinished) for repairing in wood works: Teak Chambal[PWD 32.76.4]	cum	164,783.61	160,330.25	167,010.81	167,010.81
5.27.076.05	Supplying timber (unfinished) for repairing in wood works: Chattogram Teak [PWD 32.76.5]	cum	195,959.19	191,505.83	204,821.72	204,821.72
5.27.076.06	Supplying timber (unfinished) for repairing in wood works: Kathal[PWD 32.76.6]	cum	106,886.83	106,886.83	106,886.83	106,886.83
5.27.076.07	Supplying timber (unfinished) for repairing in wood works: Gamari[PWD 32.76.7]	cum	84,619.00	80,164.61	89,072.36	89,072.36
5.27.076.08	Supplying timber (unfinished) for repairing in wood works: Chapalish[PWD 32.76.8]	cum	102,433.47	97,979.08	106,886.83	106,886.83
5.27.076.09	Supplying timber (unfinished) for repairing in wood works: Loha/Pyiankado[PWD 32.76.9]	cum	120,247.94	120,247.94	120,247.94	120,247.94
5.27.076.10	Supplying timber (unfinished) for repairing in wood works: Myanmar(Burma) teak[PWD 32.76.10]	cum	316,206.11	311,752.75	320,660.50	320,660.50
5.27.076.11	Supplying timber (unfinished) for repairing in wood works: Ordinary timber (Mehogoni)[PWD 32.76.11]	cum	89,072.36	89,072.36	89,072.36	89,072.36
5.27.077	Labour charge for cleaning, washing, brooming from all heights and stacking of debris at a place beyond plinth area of the the site during execution of repair works as per direction of the engineer-in-charge .[PWD 32.77]	cum	1,491.31	1,464.58	1,355.64	1,355.64
5.27.078	Cleaning, washing, brooming and taking away of debris from the site during and or after the completion of the repair works in all heights by truck or by any other means as per direction of the engineer-in-charge. [PWD 32.78]	cum	830.44	820.17	778.03	778.03
5.27.079	Repairing of steel grill/window frame and shutter/stair railing, veranda grill, rolling shutter excluding the cost of steel materials.[PWD 32.79]	sqm	941.44	927.06	862.31	862.31
5.27.080	Supply of steel materials for repairing work: [PWD 32.80]					
5.27.080.01	40-grade deform bar[PWD 32.80.1]	kg	100.72	100.72	100.72	100.72
5.27.080.02	60-grade deform bar[PWD 32.80.2]	kg	112.03	112.03	112.03	112.03
5.27.080.03	M.S. angle, T, and Z - section, Channel etc. [PWD 32.80.3]	kg	88.39	88.39	88.39	88.39
5.27.080.04	M.S. plain bar, F.I. Bar [PWD 32.80.4]	kg	88.39	88.39	88.39	88.39
5.27.080.05	M.S. sheet, plate used in repairing work[PWD 32.80.5]	kg	96.61	96.61	96.61	96.61
5.27.080.06	38mm dia G.I. Pipe used in repairing work[PWD 32.80.6]	m	724.58	724.58	724.58	724.58
5.27.080.07	25mm dia G.I. Pipe used in repairing work[PWD 32.80.7]	m	330.94	330.94	330.94	330.94
5.27.080.08	20 mm dia G.I. Pipe used in repairing work[PWD 32.80.8]	m	339.17	339.17	339.17	339.17
5.27.080.09	12mm dia G.I. Pipe used in repairing work[PWD 32.80.9]	m	252.83	252.83	252.83	252.83
5.27.080.10	Spring for rolling shutter used in repairing work[PWD 32.80.10]	m	74.00	74.00	74.00	74.00
5.27.080.11	Spring box for rolling shutter used in repairing work[PWD 32.80.11]	each	164.44	164.44	164.44	164.44
5.27.081	Cleaning and mending good the damages surrounding the mouth of spout/rain water down pipe [PWD 32.81]	each	176.78	175.75	162.39	162.39
5.27.082	Cleaning rain water down pipe[PWD 32.82]	m	6.17	6.17	6.17	6.17
5.27.083	Cleaning, renewing of drain and apron with cement concrete or cement mortar etc as per direction of Engineer-in-charge.[PWD 32.83]	m	262.08	261.06	248.72	248.72

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.084.1	Reexcavation of kutcha drain of 0.30 m width and average 0.6 m deep[PWD 32.84.1]	m	31.86	30.83	28.78	28.78
5.27.084.2	Reexcavation of kutcha drain of 0.61 m width and average 1.22 m deep[PWD 32.84.2]	m	128.47	126.42	117.17	117.17
5.27.085	Clearing chocked up masonry surface drain[PWD 32.85]	m	31.86	31.86	29.81	29.81
5.27.086	Clearing silt from soak well up to1.4 m dia[PWD 32.86]	each	2,156.28	2,154.22	2,017.53	2,017.53
5.27.087	Clearing sludges & night soil from septic tank removing to a safe place/distance without affecting environment[PWD 32.87]					
5.27.087.1	10 usser septic tank[PWD 32.87.1]	each	2,459.47	2,446.11	2,333.06	2,333.06
5.27.087.2	20 user septic tank[PWD 32.87.2]	each	3,467.72	3,455.39	3,278.61	3,278.61
5.27.087.3	30 user septic tank[PWD 32.87.3]	each	3,972.36	3,960.03	3,751.39	3,751.39
5.27.087.4	50 user septic tank[PWD 32.87.4]	each	6,242.72	6,230.39	5,927.19	5,927.19
5.27.087.5	100 user septic tank[PWD 32.87.5]	each	10,782.42	10,770.08	10,277.78	10,277.78
5.27.087.6	200 user septic tank[PWD 32.87.6]	each	18,853.56	18,841.22	18,033.39	18,033.39
5.27.087.7	Clearing sewege or similar hazardous substances & removing to a safe place/ distances[PWD 32.87.7]	cum	1,733.86	1,727.69	1,639.31	1,639.31
5.27.088	Clearing sludges & night soil from Inspection pit[PWD 32.88]	each	539.58	538.56	504.64	504.64
5.27.089	Clearing sludges & night soil from RCC soil pipe & sewer line[PWD 32.89]	m	114.08	114.08	107.92	107.92
5.27.090	Supplying, fitting-fixing of 400 gallon capacity ferro-cement water tank[PWD 32.90]	each	9,773.14	9,760.81	9,710.44	9,710.44
5.27.091	Taking out 40 mm dia tube-well pipe and strainer up to 70 m depth[PWD 32.91]	m	123.33	122.31	113.06	113.06
5.27.092	Labour for re-sinking 40 mm dia tube-well pipe[PWD 32.92]	m	336.08	331.97	308.33	308.33
5.27.093	Renewing Check Valve[PWD 32.93]	each	1,027.78	1,023.67	1,009.28	1,009.28
5.27.094	Renewing of 40 mm dia best quality G.I. Socket[PWD 32.94]	each	277.50	274.42	265.17	265.17
5.27.095	Taking out broken Long Pan[PWD 32.95]	each	224.06	216.86	204.53	204.53
5.27.096	Taking out broken European type Commode[PWD 32.96]	each	206.58	200.42	189.11	189.11
5.27.097	Providing 37 mm dia and 600 mm long PVC spout[PWD 32.97]	each	260.03	256.94	245.64	245.64
5.27.098	Providing 25 mm dia and 450 mm long PVC spout[PWD 32.98]	each	257.97	253.86	238.44	238.44
5.27.099	Supplying and fitting-fixing of plastic low-down including necessary internal and external fittings[PWD 32.99]	each	1,951.75	1,945.58	1,892.14	1,892.14
5.27.100	Supplying and fitting fixing of syphone for plastic low-down [PWD 32.100]	each	828.39	827.36	807.83	807.83
5.27.101	250mm and above thick brick work (1:6) in old/unserviceable septic tank[PWD 32.101]	cum	10,275.72	10,233.58	9,792.67	9,792.67
5.27.102	125mm thick brick work (1:6) in old/unserviceable septic tank[PWD 32.102]	sqm	1,586.89	1,579.69	1,507.75	1,507.75
5.27.103	12 mm plaster (1:4) with neat cement finishing in old/dilapitated septic tank[PWD 32.103]	sqm	511.83	502.58	477.92	477.92
5.27.104	Hire charge of welding set including welder cum fabricator and helper[PWD 32.104]	day	1,793.47	1,777.03	1,648.56	1,648.56
5.27.105	Hire charge of suspended scaffolding (gondula) made of rope[PWD 32.105]	day	440.92	438.86	428.58	428.58
5.27.106	Per day rate for Aluminium fabricator (labour rate)[PWD 32.106]	day	1,512.89	1,512.89	1,512.89	1,512.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.107	Supply of essential hard wares and consumables for repairing aluminium door-window frame and shutter, partition etc. [PWD 32.107]					
5.27.107.01	Swing door clouser[PWD 32.107.1]	each	4,035.06	4,035.06	4,035.06	4,035.06
5.27.107.02	Swing door lock[PWD 32.107.2]	each	945.56	945.56	945.56	945.56
5.27.107.03	Swing door Mohiar[PWD 32.107.3]	m	20.56	20.56	20.56	20.56
5.27.107.04	Fixed Neoprene[PWD 32.107.4]	m	12.33	12.33	12.33	12.33
5.27.107.05	Flush bolt[PWD 32.107.5]	each	403.92	403.92	403.92	403.92
5.27.107.06	Sliding door /window key lock[PWD 32.107.6]	each	251.81	251.81	251.81	251.81
5.27.107.07	Sliding door /window wheel[PWD 32.107.7]	each	100.72	100.72	100.72	100.72
5.27.107.08	Sliding door /window Mohiar[PWD 32.107.8]	m	6.17	6.17	6.17	6.17
5.27.107.09	Sliding Neoprene[PWD 32.107.9]	m	11.31	11.31	11.31	11.31
5.27.107.10	Sealant[PWD 32.107.10]	gm	4.11	4.11	4.11	4.11
5.27.107.11	Sliding door key lock (for window)[PWD 32.107.11]	each	113.06	113.06	113.06	113.06
5.27.107.12	4-bar hinge[PWD 32.107.12]	each	945.56	945.56	945.56	945.56
5.27.107.13	Casement handle[PWD 32.107.13]	each	317.58	317.58	317.58	317.58
5.27.107.14	Rivet for Aluminium work[PWD 32.107.14]	each	6.17	6.17	6.17	6.17
5.27.107.15	Screws for Aluminium work[PWD 32.107.15]	each	1.54	1.54	1.54	1.54
5.27.108	Cleaning over head water reservior and removing the waste to safe place/ distance from building site without affecting the environment etc. All completed as per direction of Engineer- in charge.[PWD 32.108]	gallon	1.03	1.01	0.97	0.97
5.27.109	Cleaning under ground water reservior and removing the waste to safe place/ distance from building site without affecting the environment etc. All completed as per direction of Engineer- in charge. (If water reservior tank capacity is more then 10,000 gallon then unit price for additional gallon will be reduced by @ 25% of unit price)[PWD 32.109]	gallon	0.88	0.87	0.85	0.85
5.27.110	Cleaning and removing inside rust from existing old GI pipe of different dia meter etc. All completed as per direction of Engineer- in charge.[PWD 32.110]	m	4.21	4.21	4.01	4.01
5.27.111	Taking out old unserviceable MS window shutter/grill etc. All completed as per direction of Engineer- in charge.[PWD 32.111]	each	207.61	204.53	195.28	195.28
5.27.112	Taking out unserviceable old MS collapsible gate and refitting after minor repair (excluding cost of material) etc. All completed as per direction of Engineer- in charge.[PWD 32.112]	each	2,684.56	2,646.53	2,522.17	2,523.19
5.27.113	Picking & uprooting unwanted tree, plants etc from building /structure and removing to safe distance from building/structure and using chemicals to prevent further growing up. All completed as per direction of Engineer- in charge.[PWD 32.113]	each	248.72	245.64	233.31	233.31
5.27.114	Sanitary blockage removal of Combi-closet, commode, Long Pan etc. All completed as per direction of Engineer- in charge.[PWD 32.114]	each	378.22	378.22	362.81	362.81
5.27.115	Sanitary blockage removal of Basin, Sink, waste water down pipe etc. All completed as per direction of Engineer- in charge.[PWD 32.115]	each	164.44	164.44	157.25	157.25
5.27.116	Writing & providing of name plate or Flat/Room numbering on Acrylic transparent sheet including fitting fixing etc. All completed as per direction of Engineer- in charge.[PWD 32.116]	each	1,538.58	1,538.58	1,532.42	1,532.42

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.27.117	Hire charge of mechnical gondola for repair work of high rise building height above 20 meter etc. All completed as per direction of Engineer- in charge.[PWD 32.117]	day	2,522.17	2,522.17	2,459.47	2,459.47
5.27.118	Taking out old unserviceable Aluminium Door/window frame and shutter etc. All completed as per direction of Engineer- in charge.[PWD 32.118]	each	251.81	246.67	233.31	233.31
5.27.119	Supplying, laying, fitting & fixing best quality 225 mm dia (internal) machine made R.C.C. pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge (average depth of trench is 1050 mm). (Cement: CEM-II/B-M) [PWD 22.24.1]	m	1,496.44	1,494.39	1,478.97	1,478.97
5.27.120	Supplying, laying, fitting & fixing best quality 300 mm dia (internal) machine made R.C.C. pipe over 100 mm thick cement concrete (1:3:6) at base and sides including single brick flat soling and gasket with cement mortar (1:4) joints, cutting and filling trenches up to required depth including excavation of soil etc. all complete in all respect as per type plan and accepted by the Engineer-in-charge (average depth of trench is 1050 mm).(Cement: CEM-II/B-M) [PWD 22.24.2]	m	2,379.31	2,376.22	2,357.72	2,357.72
5.27.121	Supplying, laying, fitting and fixing best quality 900 mm dia (internal) machine made R.C.C. pipe with socket over 100 mm thick cement concrete (1:3:6) at base and sides including single layer brick flat soling , cutting and filling trenches up to required depth including excavation of soil etc. complete in all respect as per type plan and accepted by the Engineer-in-charge (Cement: CEM-II/B-M) . [Rate is excluding cost of excavation, back-fill, materials for back-fill and bedding] [PWD 22.24.3]	m	12,311.75	12,294.28	12,198.69	12,198.69
Section 28 : Ferrocement Works						
5.28.01	Supplying, fitting & fixing of pre-cast ferrocement roof panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C150 type- 1, best quality coarse sand of equivalent F.M. 2.2, 2 layers of 18 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy= 450 MPa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 30 MPa and satisfying a specified compressive strength f'c = 25 MPa, best quality coarse sand of equivalent F.M. 2.2 and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006, including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, remove the shuttering, lifting the panel to floor/roof level, keeping on proper position, filling the interstices with cement concrete (1:1.5:3), satisfying a specified compressive strength f'c = 25 MPa, stitching overlapped wire meshes with 18 BWG GI wire, filling with mortar (1:2), casting of 25 mm thick as screeding (1:1.5:3) using 6 mm down stone chips and M.S. rod (fy=400 MPa) with fabrication over F.C. panel including the cost of reinforcement & wire mesh, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.[PWD 23.1]						
5.28.01.1	For ground floor, span up to 3810 mm for floor/roof slab.[PWD 23.1.1]	sqm	3,110.06	3,090.53	3,016.53	3,023.72
5.28.01.2	Add for each additional span length of 150 mm long direction (3810 mm<span ≤ 4800 mm) [PWD 23.1.2]	sqm	9.25	9.25	9.25	9.25

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.28.01.3	Add for each additional floor above ground floor [PWD 23.1.3]	sqm	41.11	41.11	41.11	41.11
5.28.02	Supplying, fitting & fixing of 20 mm thick ferrocement folded plate roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type- 1, best quality coarse sand of equivalent F.M. 2.2, 1 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 MPa & having 2 meshes per 25 mm, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006, including straightening and cleaning the rust, if any, bending and binding in position with supply of 24 BWG GI wires, removing the shutter, lifting, keeping on proper position, curing at least for 7 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge.[PWD 23.2]					
5.28.02.1	For ground floor, span up to 3810 mm [PWD 23.2.1]	sqm	2,523.19	2,507.78	2,464.61	2,464.61
5.28.02.2	Add for each additional span length of 150 mm long direction (3810 mm < span ≤ 4800 mm) [PWD 23.2.2]	sqm	9.25	9.25	9.25	9.25
5.28.02.3	Add for each additional floor above ground floor [PWD 23.2.3]	sqm	41.11	41.11	41.11	41.11
5.28.03	Supplying, fitting & fixing of 20 mm thick ferrocement corrugated sheet roof which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2, having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type-1, best quality coarse sand of equivalent F.M. 2.2, 1 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 Mpa & having 2 meshes per 25 mm and supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006 including straightening and cleaning rust, if any, bending and binding in position with supply of 24 nos GI wires, removing the shutter, lifting on ground floor roof, keeping on proper position, curing at least for 28 days including the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge. [PWD 23.3]					
5.28.03.1	For ground floor, span up to 3810 mm for floor/roof slab. [PWD 23.3.1]	sqm	2,044.25	2,035.00	2,010.33	2,011.36
5.28.03.2	Add for each additional floor above ground floor [PWD 23.3.2]	sqm	41.11	41.11	41.11	41.11
5.28.04	Supplying, fitting & fixing of pre-cast Ferrocement L-Panel which is made by using vibration table & steel shutter with minimum cement content relates to mix ratio 1:2 for flange having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type- 1, best quality coarse sand of equivalent F.M. 2.2, 2 layers of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 Mpa & having 2 meshes per 25 mm and reinforced cement concrete works for rib with minimum cement content relates to mix ratio 1:1.5:3 having minimum f'cr = 30 MPa and satisfying a specified compressive strength f'c = 25 MPa, best quality coarse sand of equivalent F.M. 2.2 and 12 mm down well graded stone chips conforming to ASTM C-33, supplying, fabrication and fixing to details as per design, deformed bar reinforcement BDS ISO 6935-2:2006 including straightening and cleaning rust, if any, bending and binding in position, curing at least for 28 days with supply of GI wires, remove the shuttering of ferrocement L-panel, lifting the panel to floor/roof level, keeping on proper position, the cost of water, electricity and other charges all complete as per design, drawing and accepted by the Engineer-in-charge. [PWD 23.4]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.28.04.1	For ground floor, span up to 3810 mm for floor/roof slab. [PWD 23.4.1]	sqm	1,797.58	1,790.39	1,756.47	1,760.58
5.28.04.2	Add for each additional floor above ground floor [PWD 23.4.2]	sqm	41.11	41.11	41.11	41.11
5.28.05	Supplying, making and fitting fixing of ferrocement door/window frame 155 mm x 65 mm which is made by using M.S. rod (fy = 400 MPa) fabrication work minimum cement content relates to mix ratio 1:2 cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ ASTM-C 150 type–1, coarse sand (F.M. 2.2), cutting, bending, binding of one layer 20 BWG galvanized / epoxy coated wire mesh having minimum yield strength fy=450 MPa & 12 mm c/c gap in both directions with 24 BWG. G.I. wire, jute hassain, polythene sheet, placing of 100 mm long welded iron hinges including 6 mm dia M.S. rod clamp fittings, fixing in position, casting with neat cement finishing demoulding and lean cement sand (1:8) cement, sand (F.M. 1:2) and curing at least for 28 days etc. all complete including the cost of water, electricity, testing and other charge as per design, drawing and accepted by the Engineer-in-charge. (Considering x-section of the frame is 153 mm x 64 mm). [PWD 23.5]	m	765.69	761.58	736.92	737.94
5.28.06	25mm thick cast-in-situ ferrocement wall with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5MPa)/ASTM-C 150 type–1, and best quality coarse sand (F.M. 2.2) M.S. rod fabrication in accordance with BDS, ISO 6935-2:2006 straighting and cleaning rust if any, bending and binding in position with supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally, 24 nos G.I. wire splices laps etc. 2 layers of 20 BWG galvanized wire mesh having minimum yield strength fy=450 Mpa & 2 mesh per 25 mm, casting and finishing the both surfaces with cement sand (F.M.-1.2) mortar (1:3) and curing at least for 21 days, including the cost of water, electricity and other charges in all complete as per drawing, design and accepted by the Engineer-in-charge.[PWD 23.6]	sqm	2,224.11	2,208.69	2,159.36	2,160.39
5.28.07	Supplying, fitting & fixing of 25 mm thick pre-cast ferrocement wall panel with minimum cement content relates to mix ratio 1:2, cement conforming to BDS EN-197-1-CEM-1, 52.5N (52.5MPa)/ ASTM-C 150 type–1 and best quality coarse sand (F.M. 2.2) and 2 layers of 20 BWG galvanized wire mesh having minimum yield strength fy=450 Mpa & 2 mesh per 25 mm, including cutting, binding, bending, with 24 B.W.G. G.I. wire, casting and finishing the both surfaces with cement sand (F.M.-1.2) Mortar (1:3) and curing at least for 21 days before lifting, fitting & fixing the Ferrocement plate in proper position with making rib, supply of 8 mm dia M.S. rod 250 mm c/c vertically, 6 mm dia 250 mm c/c horizontally fabrication in accordance with BDS, ISD 6935-2.2006 straighting and cleaning rust if any, bending and binding in position with supply of G.I. wire etc. the cost of water, electricity and other charges, complete in all respect and accepted by the Engineer-in-charge. [PWD 23.7]					
5.28.07.1	Ground Floor [PWD 23.7.1]	sqm	1,959.97	1,950.72	1,921.94	1,921.94
5.28.07.2	Add for each additional floor above ground floor [PWD 23.7.2]	sqm	20.56	20.56	20.56	20.56
5.28.08	90 mm thick partition wall with ferrocement sandwich panel wall (cast in situ) using mortar having compressive strength not less than 15.0 N/mm2 and fitting-fixing of EPS sheet size (3000 mm x 1200 mm x 63 mm),8 mm M.S. bar and its fabrication in both side with 20 BWG galvanized wire mesh having minimum yield strength fy=450 Mpa & 2 mesh per 25 mm, in compliance with ASTM C129 fairly uniform thickness and water absorption not more than 7% including necessary scaffolding, cleaning and curing at least for 7 days including cost of water, electricity and other charges etc. in all complete accepted by the Engineer-in-charge.[PWD 23.8]					
5.28.08.1	Ground Floor [PWD 23.8.1]	sqm	2,596.17	2,581.78	2,538.61	2,540.67
5.28.08.2	Add for each additional floor above ground floor [PWD 23.8.2]	sqm	15.42	15.42	15.42	15.42

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
5.28.09	40 mm ferro-cement slab on soil-cement stabilized sub-grade in ground floor etc. with minimum cement content relates to mix ratio 1:2 having minimum compressive strength of 30 MPa (28 days standard cube strength) and cement conforming to BDS EN-197-1-CEM-1, best quality coarse (F.M. 2.2) sand, 2 layer of 20 BWG galvanized/epoxy coated wire mesh having minimum yield strength fy=450 Mpa & having 2 mesh per 25 mm with minimum clear cover 12 mm both top & bottom, true to desired level, placing, compacting, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge.[PWD 23.9]	sqm	1,487.19	1,478.97	1,460.47	1,461.50

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 6 : Small Scale Water Resources Development Works						
Section-1: Earth Works						
6.01.11	Earth filling work by Carried earth with specified soil in any type of embankment including supplying, carrying, filling by throwing earth in layers not more than 150mm in proper alignment, grade, camber and side slope in all types of soil except rocky, and slushy including benchingnot more than 30mm in vertical and 60mm in horizontal steps along thesides while widening any embankment , etc. all complete as per the directionof E-I-C. Earth shall be arranged by the LCS from a distance beyond 200mfrom the end of right of the way. (Payment will be made on compacted volume).	cum	514.82	508.52	477.95	477.95
6.01.19	EWEx(M)Earthwork Excavation by Mechanical hydraulic Excavator (Long Boon)/Dredger in roadway/canals/beels/ponds etc. with 0.90 cum bucket capacity, including cutting and loading in tippers or disposing of all excavated materials at a safe distance designated by the E-I-C, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, leveling, dressing, etc. all complete for an initial excavation depth of 3m and lead up to 20m, including cost of hire charges of Excavator/dredger and all other machines, equipment, fuels, lubricants and wages of operational staff etc. all complete as per direction of the E-I-C.	cum	128.62	128.56	128.10	128.10
6.01.20	Earthwork in excavation of canals/Khals, ponds, drains etc. to lines, grades and elevation for all types of slushy or organic soil as shown in the drawings by dredging with appropriate local dredger, including carrying and disposing all excavated materials at a safe distance including levelling, dressing etc all complete including supplying all necessary tools and equipments etc., all complete as per direction of the Engineer-in-Charge. Rate is inclusive of cost of all materials, their carriages, hire charges of dredger and all other machines, equipment for excavating soil as per specification, fuels, lubricants, wages of operational staff and all incidental charges in this connection, etc.					
6.01.20.01	Initial distance within 300 m	cum	196.29	196.00	195.22	195.22
6.01.20.02	Initial distance within 300 m - 600 m	cum	224.04	223.75	222.96	222.96
6.01.20.03	Initial distance within 600 m - 1.0 km	cum	273.98	273.69	272.90	272.90
6.01.20.04	Initial distance within 1.0 km - 2.0 km	cum	329.47	329.18	328.39	328.39
6.01.21	Earth filling work in any type of embankment/pond/low lands with specified soil by Mechanical Hydraulic Excavator, including carrying, loading, unloading and filling in layers, proper alignment, grade, camber, cross-sections and side slopes etc. all complete for all lift and lead including cost of hire charges of Excavator and all other Machines, equipment, fuels , lubricants and wages of operational staff etc. all complete including cost of all materials, equipments and labours as per direction of the Engineer-in-Charge.	cum	170.99	170.93	170.48	170.48
6.01.25	Removal and Disposal of surplus excavated soils from the canal/khal/pond's site/premises up to a lead of specified distance including cost of labour, equipment and machineries, including loading & unloading at both ends, transportation, all other incidental charges, leads, lifts etc. all complete as per instuction and approval of the E-I-C. The surplus excavated material must be dumped at suitable place outside of the site/premises with minimum traffic disruption approved by E-I-C					
6.01.25.01	Distance 21m to 100m	cum	261.55	258.40	245.79	245.79
6.01.25.02	Distance 101m to 250m	cum	269.75	266.60	253.99	253.99
6.01.25.03	Distance 251m to 500m	cum	277.95	274.80	262.19	262.19
6.01.25.04	Distance 501m to 750m	cum	294.34	291.19	278.58	278.58
6.01.25.05	Distance 751m to 1000m	cum	302.54	299.39	286.78	286.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.01.25.06	Distance 1001m to 1250m	cum	327.13	323.98	311.37	311.37
6.01.25.07	Distance 1251m to 1500m	cum	351.72	348.57	335.96	335.96
6.01.25.08	Distance Above 1500m	cum	368.12	364.97	352.35	352.35
Section-2: Brick Works and Sand filling Works						
6.02.02	First class brick work in cement mortar (1:4) in toe walls/ guide walls with sand (minimum FM 1.5) and cement, cutting bricks to required sizes, hoisting and watering, etc. complete including cost of all materials all complete as per direction of the Engineer-in-Charge. [Retail]	cum	10,488.66	10,434.43	10,065.56	10,058.37
6.02.02.1	First class brick work in cement mortar (1:4) in toe walls/ guide walls with sand (minimum FM 1.5) and cement, cutting bricks to required sizes, hoisting and watering, etc. complete including cost of all materials all complete as per direction of the Engineer-in-Charge. [Bulk]	cum	10,421.82	10,367.59	9,998.72	9,991.53
6.02.04	Supplying and laying local coarse sand (minimum FM 1.5) in bedding/filter layers below CC/brick blocks in bed and slopes including preparation of surfaces, ramming, compacting, leveling etc., all complete as per design and direction of the Engineer-in-Charge. (Payment will be made for compacted volume only.)	cum	2,150.19	2,061.92	2,077.68	2,053.09
Section-3: Cement Concrete(C.C), Cement Plaster and Painting Works						
6.03.01	Cement Concrete (C.C) work in foundation/blinding layer of hydraulic structures with Portland cement, sand (minimum FM 1.80) and 1st class/picked brick chips 20mm downgraded (LAA value not exceeding 38), including shuttering, mixing by concrete mixer machine, casting, laying, compacting and curing for the requisite period, breaking of bricks into chips etc. all complete as per direction of the Engineer-in-Charge. Cylinder crushing strength of concrete should not be less than 17 Mpa at 28 days of curing (Suggested mix proportion 1:2:4). Additional quantity of cement to be added if required to attain the strength. [Retail]	cum	11,791.42	11,752.07	11,392.62	11,392.62
6.03.01.1	Cement Concrete (C.C) work in foundation/blinding layer of hydraulic structures with Portland cement, sand (minimum FM 1.80) and 1st class/picked brick chips 20mm downgraded (LAA value not exceeding 38), including shuttering, mixing by concrete mixer machine, casting, laying, compacting and curing for the requisite period, breaking of bricks into chips etc. all complete as per direction of the Engineer-in-Charge. Cylinder crushing strength of concrete should not be less than 17 Mpa at 28 days of curing (Suggested mix proportion 1:2:4). Additional quantity of cement to be added if required to attain the strength. [Bulk]	cum	11,599.88	11,560.54	11,201.09	11,201.09
6.03.05	Erection of 200mm wide water level gauge on 6mm thick plastering with Portland Composite Cement (CEM II/A-M, 42.5N) and sand (minimum FM 1.2) in proportion (1:4) on the body of hydraulic structure on both country side and river side including preparing the surface, curing including cutting the gauge marks including marking the value in English & Bengali up to centimeter in small division BWDB's RL value with respect to PWD datum and painting with synthetic enamel paint etc. all complete as per specification and direction of the E-I-C. [Retail]	sqm	358.46	357.15	340.40	340.40
6.03.05.1	Erection of 200mm wide water level gauge on 6mm thick plastering with Portland Composite Cement (CEM II/A-M, 42.5N) and sand (minimum FM 1.2) in proportion (1:4) on the body of hydraulic structure on both country side and river side including preparing the surface, curing including cutting the gauge marks including marking the value in English & Bengali up to centimeter in small division BWDB's RL value with respect to PWD datum and painting with synthetic enamel paint etc. all complete as per specification and direction of the E-I-C. [Bulk]	sqm	356.75	355.45	338.69	338.69

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.03.06	Epoxy paint 2 coats of approved colour and specification over a priming coat to gate, hoisting device and embedded metal parts including scraper, steel wire brush & emery paper etc. complete in all respect as per direction of the Engineer in charge.	sqm	536.11	529.66	498.78	498.78
6.03.07	Painting of steel sheet piles, 2 coats of bitumen paint, including preparation of surface with sand paper, brush etc. including the cost of all materials and labour etc. complete as per direction of the E-I-C	sqm	409.51	407.81	403.84	403.84
6.03.08	Painting of gauge on the body of structure with synthetic enamel paint etc. all complete as per specification & direction of E-I-C.	sqm	117.60	117.60	115.08	115.08
6.03.10	Minimum 19mm thick cement sand (F.M-1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STN-EN -1015-11 , Compressive Strength 34 Mpa ,Max depth of water penetration into hardened plaster is < 1 mm) /equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer –in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement). [Retail]	sqm	857.56	856.35	841.67	841.67
6.03.10.1	Minimum 19mm thick cement sand (F.M-1.2) water proof, damp proof, dry and breathable plaster (1:4) with water proof Izonil Cement (STNEN-1015-11 , Compressive Strength 34 Mpa ,Max depth of water penetration into hardened plaster is < 1 mm) /equivalent compound to wall surface, finishing the corner and edges including washing of sand, cleaning the surface, scaffolding and curing at least for 3 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer –in-charge. (Izonil Cement/equivalent compound: Water proof, damp proof, dry and breathable cement). [PWD 15.15.2] [Bulk]	sqm	857.17	855.11	836.61	836.61
Section-4: Reinforced Cement Concrete Works						
6.04.01	RCC-20SCCM: Reinforced cement concrete work with minimum cement content relates to nominal mix ratio 1:2:4 and maximum water cement ratio 0.4 having minimum required average strength, f'cr = 28.5 Mpa and satisfying a compressive strength f'c = 20 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-L/M/V/W 42.5N, high range water reducing admixture of complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.2 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C33 including screening chips through proper sieves, cleaning, placing shutter in position, making shutter water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. Note: Using Concrete Mixer						
6.04.01.01	For bottom and approach slab of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS of any height [Retail]	cum	15,914.80	16,011.77	14,840.71	15,145.16
6.04.01.02	For bottom and approach slab of box culvert, regulator/ pipe sluice/Rubber Dam/ WRS of any height [Bulk]	cum	15,718.33	15,815.31	14,644.25	14,948.69
6.04.01.03	For top slab, side walk, curb, wheel guard etc. of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.04.01.03.01	For height up to 5m [Retail]	cum	18,925.15	19,043.78	17,611.22	17,983.65
6.04.01.03.02	For height up to 5m [Bulk]	cum	18,684.82	18,803.44	17,370.88	17,743.31
6.04.01.03.03	For each additional height 300mm beyond 5m [Retail]	cum	19,284.73	19,405.61	17,945.83	18,325.34
6.04.01.03.04	For each additional height 300mm beyond 5m [Bulk]	cum	19,039.83	19,160.71	17,700.93	18,080.44
6.04.01.04	For diaphragm walls, wing walls, pier columns, abutments and other vertical members of hydraulic structure					
6.04.01.04.01	For Height Up to 5m [Retail]	cum	17,593.59	17,697.33	16,362.38	16,699.35
6.04.01.04.02	For Height Up to 5m [Bulk]	cum	17,376.15	17,479.88	16,144.94	16,481.90
6.04.01.04.03	For each additional height 300mm beyond 5m [Retail]	cum	17,927.87	18,033.58	16,673.27	17,016.63
6.04.01.04.04	For each additional height 300mm beyond 5m [Bulk]	cum	17,706.29	17,812.00	16,451.69	16,795.06
6.04.01.05	For cast-in-situ/ pre-cast railing & rail post of hydraulic structures [Retail]	cum	22,305.68	22,370.19	20,714.81	21,096.11
6.04.01.06	For cast-in-situ/ pre-cast railing & rail post of hydraulic structures [Bulk]	cum	22,059.62	22,124.13	20,468.75	20,850.05
6.04.02	RCC-25SCCM: Reinforced cement concrete work with minimum cement content ralated to nominal mix ratio 1:1.5:3 and maximum water cement ratio 0.4 achieving minimum required average strength, f'cr = 33.5 Mpa and satisfying a compressive strength, f'c = 25 Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and using cement conforming to BDS EN 197-1 : 2003 CEM-II 42.5N / ASTM C150 Type-1, with high range water reducing admixture complying type A or F under ASTM C 494 (Doses of admixture to be fixed by the mix design), sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulders (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) conforming to ASTM C33 including breaking chips, screening through proper sieves, cleaning, placing shutters in position, making shutters water-tight properly, placing reinforcement in position, mixing in standard mixture machine with hoper, maintaining allowable slump of 50mm to 100mm, casting in forms, compacting by mechanical vibrator machine, curing for 28 days, removing centering-shuttering after approved specified time period, other incidental charges, etc. all complete as per drawing, specification & direction of the E-I-C. The cost of reinforcement and it's fabrication, welding, coupling, placing, binding etc. is not included but the cost of admixture is included in this unit rate. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost. Note: Using Concrete Mixer					
6.04.02.01	For bottom and approach slab of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS of any height [Retail]	cum	17,923.14	17,995.53	16,786.90	17,087.93
6.04.02.02	For bottom and approach slab of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS of any height [Bulk]	cum	17,658.19	17,730.57	16,521.95	16,822.97
6.04.02.03	For top slab, side walk, curb, wheel guard etc. of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS					
6.04.02.03.01	For height up to 5m [Retail]	cum	21,297.56	21,374.50	19,942.28	20,295.78
6.04.02.03.02	For height up to 5m [Bulk]	cum	20,986.42	21,063.36	19,631.14	19,984.64
6.04.02.03.03	For each additional height 300mm beyond 5m [Retail]	cum	21,702.22	21,780.61	20,321.18	20,681.40
6.04.02.03.04	For each additional height 300mm beyond 5m [Bulk]	cum	21,385.16	21,463.56	20,004.13	20,364.34
6.04.02.04	For diaphragm walls, wing walls, pier columns, abutments and other vertical members of hydraulic structure					
6.04.02.04.01	Height up to 5 m [Retail]	cum	18,745.30	18,821.01	17,556.94	17,871.78

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1	2	3	4	5	6	7
6.04.02.04.02	Height up to 5 m [Bulk]	cum	18,468.19	18,543.90	17,279.83	17,594.67
6.04.02.04.03	For each additional height 300mm beyond 5m [Retail]	cum	19,101.47	19,178.61	17,890.53	18,211.34
6.04.02.04.04	For each additional height 300mm beyond 5m [Bulk]	cum	18,819.09	18,896.24	17,608.15	17,928.97
6.04.02.05	For cast-in-situ/ pre-cast railing and rail post of Hydraulic Structure [Retail]	cum	23,608.93	23,641.73	22,066.55	22,422.81
6.04.02.06	For cast-in-situ/ pre-cast railing and rail post of Hydraulic Structure [Bulk]	cum	23,295.36	23,328.16	21,752.97	22,109.23
6.04.03	113mm thick brick bond concrete floor (1:2:4) with Portland cement, best quality coarse sand (minimum FM 1.8) and 10mm downgraded crushed picked brick chips (LAA value not exceeding 38) screening, mixing and laying the concrete between brick gaps (38mm) and 38mm thick over brick flat soling with compacting, and finishing the top with neat cement , curing for required period etc. all complete as per direction of the Engineer-in-Charge. [Retail]	sqm	1,513.62	1,503.24	1,452.86	1,452.86
6.04.03.1	113mm thick brick bond concrete floor (1:2:4) with Portland cement, best quality coarse sand (minimum FM 1.8) and 10mm downgraded crushed picked brick chips (LAA value not exceeding 38) screening, mixing and laying the concrete between brick gaps (38mm) and 38mm thick over brick flat soling with compacting, and finishing the top with neat cement , curing for required period etc. all complete as per direction of the Engineer-in-Charge. [Bulk]	sqm	1,488.40	1,478.02	1,427.64	1,427.64
Section-5: M.S Rod Fabrication, M.S Embeded Parts and M.S Works						
6.05.02	Supply of MS work in plates, angles, channels, flat bars, Tees etc. with minimum yield strength, fy (ReH) = 300 MPa, including fabricating, machining, cutting, bending, welding, forging drilling, riveting, embedding anchor bars, staging and fitting, fixing, local handling etc including energy consumption etc. all complete as per design, specification and direction of the Engineer-In-charge.	kg	141.87	141.11	139.03	139.03
6.05.03	Manufacturing supplying and installation of M.S embedded parts (minimum yield strength, fy (ReH) = 300 MPa) for flap/vertical lift gate including fabricating, bending, welding, forging, drilling holes, welding anchor bars, fitting, fixing etc. all complete with a prime coat of red oxide where necessary as per design, specification and direction of the Engineer in charge.	kg	186.14	185.13	181.22	181.22
6.05.04	Supplying, fitting and fixing in position MS plates , nuts, bolts , MS clamps u-straps etc. (minimum yield strength, fy (ReH) = 300 Mpa) complete as per drawings specifications and directions of the Engineer-in-charge.					
6.05.04.01	100mm x 25mm x 6mm M.S Clamp twisted with four holes for fixing	kg	65.58	65.07	64.32	64.32
6.05.04.02	250mm x 38mm x 6mm M.S Clamp twisted with four holes for fixing	kg	91.43	90.93	90.17	90.17
Section-6: CC block, Gunny Bag, Geo-textile filter and Ferrocement Works						
6.06.01	Manufacturing and supplying CC blocks with Portland Composite Cement (CEM II/A-M, 42.5N), sand (FM ≥ 1.5) and shingles (40mm downgraded) to attain a minimum 28 days cylinder strength of 20 MPa (suggested mix proportion 1:2:4), including grading, washings shingles, mixing, laying in forms, consolidating, curing for at least 21 days, including preparation of platform, shuttering and stacking in measurable stacks etc. all complete as per direction of the Engineer in Charge. (Steel shutter to be used)					
6.06.01.01	Size: 500mm x 500mm x 300mm	each	902.46	898.69	877.82	882.82
6.06.01.02	Size: 400mm x 400mm x 300mm	each	580.74	578.32	564.90	568.13
6.06.01.03	Size: 300mm x 300mm x 300mm	each	328.80	327.43	319.71	321.52
6.06.01.04	Size: 300mm x 300mm x 150mm	each	165.30	164.62	160.84	161.77
6.06.01.05	Size: 250mm x 250mm x 250mm	each	190.45	189.50	184.97	186.00

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1	2	3	4	5	6	7
6.06.01.06	Size: 400mm x 400mm x 100mm	each	177.45	176.62	172.14	173.23
6.06.01.07	Size: 375mm x 225mm x 150mm	each	172.34	174.40	157.86	162.47
6.06.02	Manufacturing and supplying Sand Cement blocks of different sizes with Portland Composite Cement (CEM II/A-M, 42.5N) and sand (FM>=1.5) in 1:4 proportion, to attain a 28 day minimum strength of 3.5 N/mm2 including screening and washing sand, mixing, laying in forms, compacting, curing for at least 14 days including preparation of platform, shuttering (steel shutter to be used) etc. all complete as per specification & direction of the Engineer in charge.					
6.06.02.01	Size: 300mm x 300mm x 300mm	each	209.65	207.91	206.15	205.85
6.06.02.02	Size: 400mm x 400mm x 300mm	each	397.66	392.91	390.76	389.71
6.06.02.11	Manufacturing and supplying of hollow Cement Concrete Block of dimension 450 mm x 450 mm with Portland Composit Cement (CEM-II/AM 42.5N), Sand (F.M> 1.5) and Shingles (20mm down graded, LAA value not exeeding 40) to attain a minimum 28 days cylinder strength of 17.00 Mpa (suggested mix 1:2:4), including grading, washing shingles, mixing, laying in forms, consolidating, curing for a at least 28 days, including preparation of platform, shuttering and staking in measurable stacks, cost of all materials, labour, equipments and machinery, work at all leads and lifts, loading & unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel frame to be used for performing job.(Payment should be made after setting the blocks at site properly)					
6.06.02.11.01	Size: 450 mm x 450 mm x 75 mm; Hole dia : 150 mm	each	191.50	190.62	185.82	186.83
6.06.02.11.02	Size: 450 mm x 450 mm x 75 mm; Hole dia : 100 mm	each	197.81	196.92	192.02	193.07
6.06.02.11.03	Size: 450 mm x 450 mm x 100mm; Hole dia: 150 mm	each	239.69	238.77	233.24	234.56
6.06.02.11.04	Size: 450 mm x 450 mm x 100mm; Hole dia: 100 mm	each	176.99	176.06	170.35	171.75
6.06.02.12	Manufacturing and supplying of Hollow Cement Concrete Blocks with necessary inter locking arrangement as per design of dimension 450 mm x 450 mm with Portland Composit Cement (CEM-II/AM 42.5N), sand (F.M> 1.5) and Shingles (20mm down graded, LAA value not exceeding 40) to attain a minimum 28 days cylinder strength of 17.00 Mpa (suggested mix 1:2:4), including grading, washing shingles, mixing, laying in forms, consolidating, curing for a at least 28 days, including preparation of platform, shuttering and staking in measurable stacks, cost of all materials, labour, equipments and machinery, work at all leads and lifts, loading & unloading, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C. Steel frame to be used for performing job.(Payment should be made after setting the blocks at site properly)	each				
6.06.02.12.01	Size: 450 mm x 450 mm x 75 mm; Hole dia: 150 mm	each	197.86	196.76	191.64	192.65
6.06.02.12.02	Size: 450 mm x 450 mm x 75 mm; Hole dia: 100 mm	each	204.16	203.06	197.85	198.90
6.06.02.12.03	Size: 450 mm x 450 mm x 75 mm; Hole dia: 150 mm	each	246.05	244.91	239.06	240.39
6.06.02.12.04	Size: 450 mm x 450 mm x 75 mm; Hole dia: 100 mm	each	257.11	255.97	249.95	251.35
6.06.03	Supplying brick block of size 380mmx380mmx300mm with 1st class brick in cement mortar (1:4) including curing for 28 days, etc. complete as per drawing and direction of the E-I-C.	each	1,335.86	1,322.37	1,309.44	1,306.53
6.06.04	Manufacturing cast-in-situ brick blocks of size 625mmx625mmx300mm with 1st class brick in cement mortar (1:4) including curing for 28 days etc. complete as per drawing and direction of the Engineer in charge.	each	1,036.07	1,031.90	994.39	993.82

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1	2	3	4	5	6	7
6.06.11	Labour for filling empty gunny bags (75kg capacity) with caked cement/brick bats/earth/sand including supply of gunny bags, filling with material, sewing the mouth of bags with coir string and dumping the same in position, struts etc. all complete as per direction of the Engineer in charge.					
6.06.11.01	Earth	bag	95.64	94.38	89.34	89.34
6.06.11.02	Sand (F.M 0.50)	bag	80.33	79.93	77.18	77.18
6.06.11.03	Caked cement/Brick bats	bag	162.00	160.74	155.70	155.70
6.06.13	Manufacturing and Supplying of 25mm thick pre-cast ferro cement sheet made of Portland Composite Cement (CEM II/A-M, 42.5N) with sand of FM=2.5 in proportion of 1:2 and wire mesh of 18 BWG wire net double layer as per detail specification given in the design/drawing including cost of all materials, formwork, curring for 28 days with clean water and fitting, fixing & laying in position with Polythene sheet in the bottom and slopes of irrigation canal (as per design) keeping provision of joint and casting the joint in-situ, of specified length and width with mastic filler etc as per direction of engineering in charge.	sqm	1,734.43	1,718.19	1,670.73	1,669.87
6.06.14	Supplying & dumping of sand filled geo-textile bags of different size and capacity (fill volumn and weight when filled with dry sand/earth) at the specified locations along the khal bank/embankment toe line properly including supply of geo-textile fabric as per following grading, sewing in accordance with the detailed drawing and technical specifications, protecting the geo-textile bags from UV ray or any other damages, filling with suitable soil/ sand and stitching bags by hand sewing machine properly with plastic thread and dumping the same in position etc. including cost of all materials, labours, taxes, incidental charges etc. complete in all respect as per approved drawing, specification and direction of E-I-C.					
6.06.14.01	Geo-Textile Bag: Empty Size: 800mm x 650mm, Fill Volumn: 0.0520 cum & Weight: 80 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	291.92	291.47	286.68	286.68
6.06.14.02	Geo-Textile Bag: Empty Bag Size: 900mm x 700mm, Fill Volumn: 0.0730 cum & Weight: 110 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	350.63	350.33	344.88	344.88
6.06.14.03	Geo-Textile Bag: Empty Bag Size: 950mm x 750mm, Fill Volumn: 0.0840 cum & Weight: 125 Kg, [Geo-Textile Grade: Grade-III-DF-40-2.3mm thick]	bag	389.71	389.49	383.68	383.68
6.06.14.04	Geo-Textile Bag: Empty Bag Size: 1075mm x 850mm, Fill Volumn: 0.1164 cum & Weight: 175 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	511.00	510.67	502.35	502.35
6.06.14.05	Geo-Textile Bag: Empty Bag Size: 1100mm x 850mm, Fill Volumn: 0.1333 cum & Weight: 200 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	534.02	533.82	524.97	524.97
6.06.14.06	Geo-Textile Bag: Empty Bag Size: 1300mm x 1050mm, Fill Volumn: 0.1664 cum & Weight: 250 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	712.03	712.08	702.18	702.18
Section-7: Sheet pile, RCC pile, Bamboo pile Works and Driving						
6.07.01	Supplying of U-Type Hot rolled Steel Sheet piles as per approved design drawings and specifications (sections, thickness, lengths & Mechanical properties). Before using the sheet pile supplied by the contractor a written approval from Project Director must be taken. If contactor's bid price is higher than the departmental supply rate, then the departmental supply rate will be applicable. (Contractor's supply will be applicable when departmental Supply is not possible. If material is supplied by the Department then the contract cost of this item shall be deducted from the contractor's bill. But the VAT & IT shall be deducted the departmental supply rates of steel sheet piles).	kg	124.22	124.22	123.90	123.90

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1	2	3	4	5	6	7
6.07.02	DSSP: Driving U-type steel sheet pile of various sections and weights in any type of soil by monkey hammer including handling and placing in position, staging and supplying of all equipment like monkey hammer, pulley, rope, bamboo, bullah etc. including correcting leaning beyond tolerance & other defects etc. complete as per drawing and direction of the Engineer in charge (Measurement will be taken on projected "width x driven depth" from lowest ground level) up to 4.5m depth.	sqm	894.38	879.95	824.51	824.51
6.07.03	ToSSP: Taking out u-type steel sheet piles of various sections and weights from any type of soil by mechanical device including handling and placing in stacks etc. complete (measurement will be taken on projected "width x embeded depth" including arranging all equipment etc. all complete as per direction of the Engineer in charge.	sqm	1,762.34	1,745.57	1,705.15	1,705.15
6.07.04	Carrying steel sheet piles of specified sections & length from LGED stack yard as specified by appropriate means to the construction site and stacking at proper place including loading, unloading, local handling as per design, drawing and specifications etc. all complete as per direction of the E-I-C. (a) LGED stack-yard,Gazipur	tonne-km	17.28	16.97	16.52	16.52
6.07.05	Cutting charge of U-type Hot rolled steel sheet piles as per specification (thickness, length and mechanical properties) and instruction by all complete as per direction of the E-I-C.	each	312.13	305.19	290.06	290.06
6.07.06	Supplying and driving of 100mm thick RCC sheet piles with strength of 20.7 Mpa on 28days (suggested mix proportion 1:1.5:3), Portland Composite Cement (CEM II/A-M, 42.5N), coarse sand (FM>=1.8) and 20mm downgraded 1st class/picked brick khoa including watertight shuttering, mixing with mixer machine, casting, comp acting with vibrator, curing etc. all complete, including breaking of khoa fabricating steel face plates with interlocking bars/angles as per drawings, specification and direction of the E-I-C. (Strength of concrete shall be as specified for RCC piles in the drawings and technical specification.) If the working mix proportion, to be determined by trial mix prior to starting work, give required strength richer than the normal mix proportion, additional cement as required by the strength requirement shall be provided by the contractor at his own cost. Form work/shuttering shall be as per specification and shall produce smooth and even concrete surface (no plastering is allowed), etc. all complete as per direction of E-I-C.	sqm	6,016.03	5,965.99	5,651.90	5,651.90
6.07.07	Reinforced cement concrete work in pre-cast RCC piles and pile heads with Portland Composite Cement (CEM II/A-M, 42.5N), sand (minimum FM 2.50) and 20mm down well graded crushed stone chips,(Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30), including shuttering, mixing by concrete mixer machine, casting, laying compacting, curing for the requisite period etc. all complete as per design, drawing, specification and direction of the E-I-C but excluding the cost of reinforcement. Strength of concrete should not be less than 25 MPa (suggested mix proportion 1:1.5:3). Additional quantity of cement to be added if required to attain at his own cost.	cum	18,121.72	18,205.32	16,956.68	17,279.80

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1	2	3	4	5	6	7
6.07.11	Boring and casting of RCC cast-in-situ piles up to the required depth and dia with temporary steel casing in all types of soils including staging, drilling, driving, bentonite circulation, placing of reinforcement and placing concrete by termite casting method with concrete with Portland Composite Cement (CEM II/A-M, 42.5N), sand (minimum FM 2.50) and 20mm down graded crushed stone chips,(Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) to result minimum ultimate cylinder crushing strength of 25MPa at 28 days (suggested mix proportion 1:1.5:3) with allowable slump of 100mm to 150mm including cost of all materials, labour, equipment and all incidental charges but excluding the cost of reinforcement and its fabrication, etc. all complete as per design, drawing, specifications and of the Engineer-in-Charge. Additional quantity of cement be added, if required to attain the afore-mentioned concrete strength, by the contractor at his own costs.					
6.07.11.01	Boring					
6.07.11.01.01	450mm dia	m	792.76	785.19	761.23	761.23
6.07.11.01.02	500mm dia	m	990.95	981.49	951.54	951.54
6.07.11.01.03	600mm dia	m	1,189.14	1,177.79	1,141.85	1,141.85
6.07.11.02	Concreting					
6.07.11.02.01	450mm dia	cum	15,808.52	15,884.01	14,830.67	15,106.84
6.07.11.02.02	500mm dia	cum	15,808.52	15,884.01	14,830.67	15,106.84
6.07.11.02.03	600mm dia	cum	15,808.52	15,884.01	14,830.67	15,106.84
6.07.15	Supplying & laying in position packed straw bundles of 1m dia and 1.25m long with struts etc. all complete as per direction of the Engineer in charge.	bundle	262.63	261.68	257.90	257.90
6.07.16	Supplying & dumping brush wood in position compacted in bundles of 450mm dia including cross bamboo as directed including fitting fixing struts etc. all complete as per direction of the Engineer in charge.	bundle	308.28	307.33	303.55	303.55
6.07.17	Supplying, fitting and fixing 6 ply Nylon net (12mm opening) in position with burnt clay weight (length 4 inch dia 2 inch solid/hollow/cylindrical) and fitting fixing 10mm dia to 12mm dia Polyvinyl / Nylon rope in position as per design, drawings, specifications and directions of the E-I-C.	sqm	390.54	388.52	380.45	380.45
6.07.18	Supplying and placing of 20mm Hessian cloth soaked with bitumen on top of sheet piles as per drawing, specification and direction of the E-I-C.	sqm	753.72	745.51	734.30	734.30
6.07.19	Supplying, fitting and fixing 400mm dia and 500mm long drum with both end closed in position as per design drawings specifications and directions of the E-I-C.	each	496.56	491.83	480.80	480.80
6.07.20	Shoring for slope protection of foundation trench, canal, embankment, road, pond etc, as per design slopes, grades including removal of spoils to a safe distance as per direction of E-I-C.					
6.07.20.01	By bamboo post of 6.0m length, 60mm to 80mm dia, 250mm c/c and 2m drive with diagonally woven tarja walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails etc.all complete.	sqm	440.44	437.23	423.89	423.89
6.07.20.02	By bamboo post of 6.0m length, 60mm to 80mm dia, 200mm c/c, driven 2.0m below ground, with drum shet walling and average 70mm dia half split bamboo batten @ 2.0m c/c fixed with nails etc.all complete.	sqm	587.68	584.46	571.13	571.13
6.07.20.03	By local hard wood ballah post of 6.0m length, 125mm dia, 1.0m c/c, and 2.0m driven with 6.0m long bamboo of agarage 75mm dia, @ 1.0, c/c and 2.0m dia drive with drum sheet walling and average 70mm dia half split bamboo betten @ 2.0m c/c fixed with nails etc.all complete.	sqm	1,093.38	1,088.88	1,059.11	1,059.11

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.07.21	Construction of double row bamboo spur, with full length barrack bamboo, 60mm to 75mm dia and 3.0m to 4.5, long, 0.30m c/c, 1.5m apart and single row runner with half split bamboo on both sides, of each row, fixing with country nails, and 1.5, apart, double layers cross tie at 3.0m interval and 1.5m apart, including 2.4m to 3.0m driving of bamboo pins by monkey hammer, necessary staging etc. complete with supply of all materials and as per drawing and direction of Engineer in charge.	m	1,203.60	1,178.38	1,140.55	1,140.55
6.07.22	Construction of double row bamboo spur, with full length barrack bamboo of average 60mm to 75mm dia and 4.5m to 6.0m long, at 0.30m c/c, two rows at 1.5m apart and stays with bamboo at 3.0m apart on D/S side of spur and single row runner with half split bamboo on both sides of each row and double layers cross tie at 3.0m interval, including 2.4m to 3.0, driving of bamboo pins by monkey hammer, necessary staging etc. complete with supply of all materials including local carriage within 150m and as per drawing and direction of Engineer in Charge.	m	2,152.46	2,105.55	2,035.18	2,035.18
6.07.23	Construction of double row bamboo spur, with full length barrack bamboo of average 75mm to 100mm dia, 7.5m to 11.0m long, at 0.3m c/c, two rows at 1.5m apart and stays with bamboo at 3.0m apart on the D/S side of the spur and double row runner with half split bamboo on both sides of each row, double layer cross tie at 3.0m interval, including 2.4m to 3.0m, driving of bamboo pins by monkey hammer, necessary staging etc. complete with supply of all materials including local carriage with 150m and as per drawing and direction of Engineer in charge.	m	4,469.38	4,364.63	4,207.49	4,207.49
6.07.24	Supplying of brush wood compacted in bundle not more than 75cm dia and 180cm in length tied securely with coir string and dumping the same in position etc. complete with supply of all materials and as per direction of E-I-C.	cum	629.13	620.72	587.09	587.09
Section-8: Gate Works of Hydraulic Structure						
6.08.01	Manufacturing, supplying and installation of pedestal type lifting device for slide gate with 63mm dia threaded steel shaft, 146mm outer dia bronze nut, thrust bearing, steel bevel gear etc. as per approved design including supply of all components, labour with a prime coat of red oxide where necessary etc. all complete as per specification and direction of the Engineer in charge.	each	125,113.52	124,940.22	123,774.98	123,774.98
6.08.02	Manufacturing, supplying and installation of hand-wheel type lifting device for slide gate with 63mm dia steel shaft, 108mm outer dia bronze nut taper roller bearing SKF-50216 etc. as per approved design including supply of all components, labours with a prime coat of red oxide etc. all complete as per specification and direction of the Engineer in charge.	each	79,100.19	78,985.55	78,268.00	78,268.00
6.08.03	Manufacturing, supplying of M.S Vertical lift gate shutter of 8 mm thick M.S skin plate and stiffener with minimum 75mmx75mmx10mm M.S angle as frame, horizontal & vertical beam, 75mmx25mmx12mm P-type rubber seal, fixed with 10mm diax63.5mm M.S counter shank bolts with nuts and 40mmx10mm M.S strip as clamp drilled space @150mm c/c, stem attachment with proper thread, nut cotter pin and washer as per approved design including the cost of all materials of proper grade and brand new with a prime coat of red oxide where necessary as per specifications including fitting, fixing etc. all complete as per drawing, specification and direction of the Engineer in charge.					
6.08.03.01	Size: 1.05m x 0.975m	each	40,193.78	39,965.45	39,285.08	39,285.08
6.08.03.02	Size: 1.35m x 1.275m	each	57,318.80	57,032.78	56,078.47	56,078.47
6.08.03.03	Size: 1.35m x 1.575m	each	56,414.06	56,392.88	55,314.97	55,314.97
6.08.03.04	Size: 1.65m x 1.575m	each	79,106.92	79,083.56	77,712.20	77,712.20
6.08.03.05	Size: 1.65m x 1.875m	each	85,562.30	85,536.87	84,156.91	84,156.91

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1	2	3	4	5	6	7
6.08.03.06	Size: 1.65m x 2.075m	each	96,077.20	96,047.73	94,497.20	94,497.20
6.08.03.07	Size: 1.65m x 2.50m	each	103,435.53	103,403.19	101,702.95	101,702.95
6.08.04	Manufacturing and supplying of M.S Flap gate shutter of 8mm thick M.S skin plate and stiffener with minimum 75mmx75mmx10mm M.S angle as frame, horizontal & vertical beams,100mmx45mmx16mm p-type rubber seal, fixed with 10mm dia x63.5mm M.S counter sink and hex nuts & bolts and 40mmx10mm M.S strip as clamp drilled spaces @150mm c/c hinge assembled with gate and wall bracket, link arm of 19mm thick M.S plate, 4 nos. 25mm diax150mm stainless steel hinge pin with proper thread, and nut, cotter pin and washer as per approved design with a prime coat of red oxide where necessary etc. all complete as per drawing specification and direction of the Engineer in charge.					
6.08.04.01	Size: 1.05m x 0.975m	each	55,358.42	55,130.14	54,449.93	54,449.93
6.08.04.02	Size: 1.35m x 1.275m	each	68,898.33	68,612.31	67,658.02	67,658.02
6.08.04.03	Size: 1.35m x 1.675m	each	68,898.73	68,612.71	67,658.39	67,658.39
6.08.04.04	Size: 1.65m x 1.575m	each	91,678.17	91,334.42	90,070.88	90,070.88
6.08.04.05	Size: 1.65m x 1.875m	each	104,410.66	103,953.03	102,510.92	102,510.92
6.08.05	Labour charge for fitting and fixing of M.S vertical lift gate/flap gate shutters of different size including making holes in concrete for hooking arrangements with supply of necessary materials, tools and other accessories required for fitting the same to regulator/sluice and mending the damages with C.C (1:2:4), removing the spoils etc. all complete as per direction of the Engineer in charge.					
6.08.05.01	Size: 1.05m x 0.975m	each	13,265.00	13,063.22	12,634.44	12,634.44
6.08.05.02	Size: 1.35m x 1.275m	each	13,265.00	13,063.22	12,634.44	12,634.44
6.08.05.03	Size: 1.35m x 1.675m	each	13,265.00	13,063.22	12,634.44	12,634.44
6.08.05.04	Size: 1.65m x 1.575m	each	15,481.40	15,229.18	14,724.73	14,724.73
6.08.05.05	Size: 1.65m x 1.875m	each	15,481.40	15,229.18	14,724.73	14,724.73
6.08.05.06	Size 1.65mx2.075m	each	17,128.66	16,849.53	16,291.47	16,291.47
6.08.06	Labour charge for removal of M.S Gates and Hoists from all types of structures with all leads and lifts including hire charge of boat, chain pulley, bamboo ropes, etc. and re-fixing the same in original level, line and grade after painting (excluding the cost of painting) etc. all complete as direction of the Engineer in charge.					
6.08.06.01	Size 1.05m x 0.975m	each	3,306.51	3,273.21	3,176.61	3,176.61
6.08.06.02	Size 1.35m x 1.275m	each	3,306.51	3,273.21	3,176.61	3,176.61
6.08.06.03	Size 1.35m x 1.675m	each	3,306.51	3,273.21	3,176.61	3,176.61
6.08.06.04	Size 1.65m x 1.575m	each	3,796.70	3,756.35	3,639.06	3,639.06
6.08.06.05	Size 1.65m x 1.875m	each	3,796.92	3,756.56	3,639.28	3,639.28
6.08.06.06	Size 1.65m x 2.075m	each	4,235.69	4,188.53	4,050.31	4,050.31
6.08.07	Supplying fitting, fixing fall boards of different dimensions of pressure treated Garjon or Sundari timber for Regulators, Sluices, Water Retention Structures and similar hydraulic structures including fixing, lifting hooks in position, making water tight, filling grooves, testing etc. complete as per drawing and direction of the E-I-C.	cum	130,993.96	125,996.63	131,120.45	131,120.45
6.08.09	Supplying fitting fixing of best quality P-type Rubber seal (W=75mm,T=12mm, B=25mm) for M.S Vertical Lift gate/ M.S Flap gate with nut bolt including the cost of all materials where necessary as per specification etc, all complete and direction of E-I-C.	m	1,439.99	1,438.98	1,437.47	1,437.47

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.08.10	Supplying fitting fixing of best quality U-type Rubber seal to provide bottom seal of M.S Vertical Lift gate with nut bolt including the cost of all materials where necessary as per specification etc, all complete and direction of E-I-C.	m	1,479.05	1,477.54	1,475.27	1,475.27
6.08.11	Manufacturing, supplying of MS Vertical Lift gate shutter made of 10 mm thick MS skin plate fitted and stiffener with minimum 100mmX100mmX10mm MS angle as frame, horizontal & vertical beam, 75mmX25mmX 10mm/75mmX25mmX12mm P-type rubber seal with 10mm dia hollow bulb and U-type rubber seal fixed with 10mm diaX63mm/10mm diaX63.5mm MS counter shank, bolts with nuts and 40mmX6mm/ 40mmX10mm MS strip as clamp drilled space @ 150mm c/c, stem attachment with proper thread, nut cotter pin and washer as per approved design including the cost of all materials of proper grade and brand new with a prime coat of red oxide where necessary as per specification including fitting, fixing etc. all complete as per approved design, specification and direction of the Engineer-in-Charge.					
6.08.11.01	Size 2.17 X 2.50m	each	166,867.26	166,260.61	163,772.59	163,772.59
6.08.11.02	Size 2.67 X 2.50m	each	221,831.31	221,264.21	218,567.15	218,567.15
6.08.11.03	Size 2.67 X 3.00m	each	223,869.83	223,284.66	220,500.45	220,500.45
Section-9: M.S Pipe, GI pipe, RCC Pre-Cast Pipe, Gate Valve and Pipe Fitting Works						
6.09.01	Supplying MS pipes of standard thickness including painting with anticorrosive paint, laying in position and true to alignment, fitting, fixing, joining by continuous welding etc. all complete as per specifications in the drawings and as per direction of the Engineer in charge.					
6.09.01.1	Internal diameter: 150mm	m	3,953.23	3,950.70	3,930.53	3,930.53
6.09.01.2	Internal diameter: 200mm	m	5,432.30	5,428.95	5,402.29	5,402.29
6.09.01.3	Internal diameter: 300mm	m	7,843.88	7,840.98	7,819.29	7,819.29
6.09.01.4	Internal Diameter: 400mm (wall thickness 6mm)	m	10,334.25	10,331.22	10,309.66	10,309.66
6.09.01.5	Internal Diameter: 450mm(wall thickness 6mm)	m	14,129.54	14,126.14	14,099.91	14,099.91
6.09.01.6	Internal Diameter: 600mm(wall thickness 7mm)	m	18,920.52	18,916.23	18,883.32	18,883.32
6.09.02	Providing GI Pipe including placing in position as per drawing & including cost of all materials , their carrying & labour etc. all complete as per direction of the Engineering -in-Charge.					
6.09.02.1	38mm dia GI Pipe	m	878.99	876.98	873.95	873.95
6.09.02.2	50mm dia GI Pipe	m	1,094.64	1,092.63	1,089.60	1,089.60
6.09.03	Supplying, fitting and fixing silt extractor pipe of 100mm dia. 600mm long GI pipe and supply , fitting and fixing of 600mm dia brass stop cork with GI pipe etc. as per drawing and direction of Engineer-in-charge.	each	2,902.83	2,902.83	2,871.30	2,871.30
6.09.05	Supplying pre-cast RCC Pipes including colors of different dia manufactured as per design manual including casting, curing, laying in position, from finished type by steel form works as per the design manual schedule all complete as per direction of the Engineer-in-Charge.					
6.09.05.1	600mm dia, 75mm thick	m	3,334.93	3,325.51	3,277.24	3,275.96
6.09.05.2	900mm dia, 100mm thick	m	5,704.12	5,689.29	5,612.94	5,610.36
6.09.05.3	1200mm dia, 100mm thick	m	7,369.51	7,351.07	7,256.00	7,252.56

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.09.06	Supplying pre-cast RCC Pipes of different dia manufactured with 12mm down graded dust free stone chips (Suggested mix ratio1:1.5:3 & f'c= 25 MPa), curing, laying in position, from finished type by steel form works as per the design specifications all complete as per direction of the Engineer-in-Charge.					
6.09.06.01	300mm internal dia, 50mm thick	m	1,772.63	1,762.65	1,696.61	1,707.08
6.09.06.02	350mm internal dia, 50mm thick	m	1,974.13	1,963.43	1,889.64	1,901.61
6.09.06.03	400mm internal dia, 50mm thick	m	2,134.58	2,123.77	2,043.71	2,057.20
6.09.06.04	450mm internal dia, 50mm thick	m	2,297.93	2,286.62	2,200.55	2,215.44
6.09.06.05	500mm internal dia, 50mm thick	m	2,451.35	2,440.18	2,348.08	2,364.61
6.09.06.06	550mm internal dia, 75mm thick	m	3,394.15	3,383.56	3,253.30	3,281.22
6.09.06.07	600mm internal dia, 75mm thick	m	3,666.28	3,655.90	3,517.67	3,547.91
6.09.06.08	650mm internal dia, 75mm thick	m	3,890.90	3,880.16	3,733.02	3,765.58
6.09.06.09	700mm internal dia, 75mm thick	m	4,122.56	4,111.53	3,956.22	3,990.87
6.09.06.10	750mm internal dia, 100mm thick	m	5,565.42	5,555.76	5,346.87	5,397.58
6.09.06.11	800mm internal dia, 100mm thick	m	5,681.54	5,672.31	5,454.00	5,507.72
6.09.06.12	850mm internal dia, 100mm thick	m	5,774.88	5,764.86	5,549.90	5,602.00
6.09.06.13	900mm internal dia, 100mm thick	m	6,274.47	6,264.88	6,024.32	6,084.09
6.09.07	Supplying, fitting fixing and installation of 300mm dia Alfa valve as per drawing, specification and direction the Engineer-in-Charge.	each	6,947.93	6,947.10	6,944.93	6,944.93
6.09.08	Supplying and Installation of different diameter Gate Valve used in any pipe line system including different dia flange, dresser rubber washer, nut, bolts, gasket, welding, fitting, fixing etc. all complete as per drawing , specification and direction of the E-I-C.					
6.09.08.01	500mm dia gate valve	each	145,677.40	145,677.40	145,677.40	145,677.40
6.09.08.02	450mm dia gate valve	each	135,118.67	135,118.67	135,118.67	135,118.67
6.09.08.03	400mm dia gate valve	each	123,552.17	123,552.17	123,552.17	123,552.17
6.09.08.04	355mm dia gate valve	each	110,256.83	110,256.83	110,256.83	110,256.83
6.09.08.05	315mm dia gate valve	each	99,255.30	99,255.30	99,255.30	99,255.30
6.09.08.06	280mm dia gate valve	each	87,905.60	87,905.60	87,905.60	87,905.60
6.09.08.07	250mm dia gate valve	each	79,331.35	79,331.35	79,331.35	79,331.35
6.09.08.08	225mm dia gate valve	each	75,339.79	75,339.79	75,339.79	75,339.79
6.09.08.09	200mm dia gate valve	each	61,915.51	61,915.51	61,915.51	61,915.51
6.09.08.10	150mm dia gate valve	each	45,420.68	45,420.68	45,420.68	45,420.68
6.09.09	Supplying, fitting, fixing and installation of Air vent pipe (250mm dia, 25mm thick & 3000mm long CC pipe) for Water control structure, mass concrete with pacca nacca as per drawing and direction of Engineer-in-charge. Height of the vent pipe should be up to the Hydraulic grade line.	each	13,760.14	13,722.96	13,287.40	13,287.40
6.09.11	Supplying, fitting and fixing of best quality accessories for the steel pipe line as hand wheel along with stem shaft including fitting & fixing at top slab with base plate.					
6.09.11.1	Trash screen at inlet/outlet pipes (200-300mm dia)	set	1,513.71	1,506.15	1,482.18	1,482.18
6.09.11.2	Trash screen for top cover of sump well (3000mm dia)	set	20,808.64	20,801.20	20,779.63	20,779.63

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.09.13	Supplying and Installation of different diameter MS perforated Foot Valve including painting with anticorrosive paint, laying in position and true to the alignment. Fitting, fixing, joining by continuous welding etc. all completes per specifiations in the drawing and direction of the Engineering-in-Charge.					
6.09.13.01	Internal Diameter:150mm	each	7,267.15	7,264.63	7,213.56	7,213.56
6.09.13.02	Internal Diameter:200mm	each	8,948.21	8,945.06	8,888.31	8,888.31
6.09.14	Supplying and Installation of different diameter of 90 degree Mala bend MS pipe including painting with anticorrosive paint, laying in position and true to the alignment. fitting, fixing, joining by continuous welding and/or flange connection etc. all completes per specifiations in the drawing and direction of the Engineering-in-Charge.					
6.09.14.01	Internal Diameter:150mm (2.5mm thick)	each	4,526.13	4,523.61	4,491.45	4,491.45
6.09.14.02	Internal Diameter:200mm (3.0mm thick)	each	5,746.88	5,743.73	5,709.05	5,709.05
6.09.15	Supplying fitting & fixing of best quality M.S angle(65 kg) Chasis (2100mmx600mm) made of 75mmx75mmx6mm thick etc. all complete as per direction of E-I-C.	each	8,020.04	8,013.86	7,850.42	7,850.42
6.09.16	Supply and installation of 450mm width cat ladder prepared with 50mmx50mmx6mm MS Angle, 19mm dia MS rod @300mm c/c welded to MS angle including supply of all materials, labours, tools etc. all complete as per direction of the Engineer-in-Charge.	m	1,363.14	1,361.46	1,350.52	1,350.52
6.09.17	Lifting the buried RCC pipes of different diameters from an average depth of 1.0m below ground level using tripod mounted block and tackle. Utmost care will be taken to avoid any damage to the pipes. The pipes must be cleaned of extraneous matter that has accured on the inside surfaces, raking where necessary. The joints must be raked clean to removed all redundant sealant materials. This needs to be carried out carefully to avoid damage to the pipe ends. Re-laying the pipes in a downstream direction .all complete as per design, specifications and direction of the Engineer-in- Charge.					
6.09.17.01	Dia 300mm to dia 500mm	each	599.03	589.57	551.74	551.74
6.09.17.02	Dia 550mm to dia 750mm	each	788.19	775.58	725.14	725.14
6.09.17.03	Dia 750mm to dia 900mm	each	1,024.65	1,008.89	945.83	945.83
6.09.18	Supplying of MS T-Joint (600mmX450mmX450mm) including painting with anticorrosive paint, laying in position and true to the alignment. Fitting, fixing, joining by continuous welding etc. all completeas per specifiations in the drawing and direction of the Engineering-in-Charge.	each	22,733.96	22,729.55	22,692.98	22,692.98
6.09.19	Supplying and Installation of different diameter of 45 degree Mala bend MS pipe including painting with anticorrosive paint, laying in position and true to the alignment. fitting, fixing, joining by continuous welding and/or flange connection etc. all completes per specifiations in the drawing and direction of the Engineering-in-Charge.	each	4,089.15	4,086.63	4,054.47	4,054.47
Section-10: uPVC Pipe and pipe Fitting Works						
6.10.01	Supplying and laying of uPVC pipes of different diameter and wall thickness for at least 3.25 bar (32.00 m head) working pressure in accordance with ISO-4422 and ISO-4065, including placing in position, connecting and leak proof O-ring jointing using best quality elastomeric sealing gaskets, etc. completed including costs of all materials, labors, etc and costs of testing for complete leak proofness and repair and/or replacement of leaking joints , if any but excluding costs of earthworks in trench cutting & filling as per design drawings, specifications and as per Direction of Engineer-in-Charge.	m				
6.10.01.01	For PVC Pipe: 160mm Dia, Wall Thickness 3.2mm	m	735.48	735.48	735.48	735.48
6.10.01.02	For PVC Pipe:180mm Dia, Wall Thickness 3.6mm	m	919.35	919.35	919.35	919.35

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1	2	3	4	5	6	7
6.10.01.03	For PVC Pipe: 200mm Dia, Wall Thickness 4.0mm	m	1,089.60	1,089.60	1,089.60	1,089.60
6.10.01.04	For PVC Pipe: 225mm Dia, Wall Thickness 4.5mm	m	1,634.40	1,634.40	1,634.40	1,634.40
6.10.01.05	For PVC Pipe: 250mm Dia, Wall Thickness 4.9mm	m	1,750.17	1,750.17	1,750.17	1,750.17
6.10.01.06	For PVC Pipe: 280mm Dia, Wall Thickness 4.9mm	m	2,145.15	2,145.15	2,145.15	2,145.15
6.10.01.07	For PVC Pipe:315mm Dia, Wall Thickness 4.9mm	m	2,792.10	2,792.10	2,792.10	2,792.10
6.10.01.08	For PVC Pipe:355mm Dia, Wall Thickness 5.6 mm	m	3,507.15	3,507.15	3,507.15	3,507.15
6.10.01.09	For PVC Pipe:400mm Dia, Wall Thickness 6.3mm	m	4,358.40	4,358.40	4,358.40	4,358.40
6.10.01.10	For PVC Pipe:450mm Dia, Wall Thickness 7.0mm	m	5,311.80	5,311.80	5,311.80	5,311.80
6.10.01.11	For PVC Pipe:500mm Dia, Wall Thickness 7.8mm	m	6,469.50	6,469.50	6,469.50	6,469.50
6.10.02	Supplying and Installation of uPVC pipe fittings like T-Joints, Bends & End Caps with leak proof O-ring jointing using best quality elastomeric sealing gaskets etc, of different size and wall thickness in accordance with ISO-4422 and ISO-4065, etc. completed including costs of all materials & labors and costs of testing for complete leak proofness and repair and/or replacement of leaking joints, if any, as per design, drawings, specifications and Direction of Engineer-in-Charge.	each				
6.10.02.01	For Bend Size:160mm Dia,wall thickness2.5mm&1.52m Length	each	1,553.69	1,553.69	1,553.69	1,553.69
6.10.02.02	For Bend Size:180mm Dia,wall thickness2.8mm&1.52m Length	each	1,900.49	1,900.49	1,900.49	1,900.49
6.10.02.03	For Bend Size:200mm Dia,wall thickness3.2mm&1.52m Length	each	2,330.53	2,330.53	2,330.53	2,330.53
6.10.02.04	For Bend Size:225mm Dia,wall thickness3.5mm&1.52m Length	each	2,774.44	2,774.44	2,774.44	2,774.44
6.10.02.05	For Bend Size:250mm Dia,wall thickness3.9mm&1.52m Length	each	3,523.54	3,523.54	3,523.54	3,523.54
6.10.02.06	For Bend Size:280mm Dia,wall thickness4.4mm&1.52m Length	each	4,369.75	4,369.75	4,369.75	4,369.75
6.10.02.07	For Bend Size:315mm Dia,wall thickness4.9mm&1.52m Length	each	5,756.97	5,756.97	5,756.97	5,756.97
6.10.02.08	For Bend Size:355mm Dia,wall thickness5.6mm&1.52m Length	each	7,213.56	7,213.56	7,213.56	7,213.56
6.10.02.09	For Bend Size:400mm Dia,wall thickness6.3mm&1.98m Length	each	10,681.61	10,681.61	10,681.61	10,681.61
6.10.02.10	For Bend Size:450mm Dia,wall thickness7.0mm&1.98m Length	each	13,039.89	13,039.89	13,039.89	13,039.89
6.10.02.11	For Bend Size:500mm Dia,wall thickness7.8mm&1.98m Length	each	15,814.33	15,814.33	15,814.33	15,814.33
6.10.03	Supplying and Installation of uPVC pipe fittings like T-Joints, Bends & End Caps with leak proof O-ring jointing using best quality elastomeric sealing gaskets etc, of different size and wall thickness in accordance with ISO-4422 and ISO-4065, etc. completed including costs of all materials & labors and costs of testing for complete leak proofness and repair and/or replacement of leaking joints, if any, as per design, drawings, specifications and Direction of Engineer-in-Charge.	each				
6.10.03.01	For End Cap Size: 160mm dia, wall thickness 2mm &0.56m Length	each	749.10	749.10	749.10	749.10
6.10.03.02	For End Cap Size:180mm dia, wall thickness 2.3mm &0.56m Length	each	853.14	853.14	853.14	853.14
6.10.03.03	For End Cap Size: 200mm dia, wall thickness 2.5mm &0.56m Length	each	943.31	943.31	943.31	943.31
6.10.03.04	For End Cap Size: 225mm dia, wall thickness 2.8mm &0.56m Length	each	1,234.63	1,234.63	1,234.63	1,234.63
6.10.03.05	For End Cap Size:250mm dia, wall thickness 3.1mm &0.56m Length	each	1,373.35	1,373.35	1,373.35	1,373.35
6.10.03.06	For End Cap Size:280mm dia, wall thickness 3.5mm &0.56m Length	each	1,664.67	1,664.67	1,664.67	1,664.67
6.10.03.07	For End Cap Size: 315mm dia, wall thickness 4.0mm &1.42m Length	each	4,265.71	4,265.71	4,265.71	4,265.71
6.10.03.08	For End Cap Size:355mm dia, wall thickness 4.4mm &1.42m Length	each	5,479.53	5,479.53	5,479.53	5,479.53

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.10.03.09	For End Cap Size:400mm dia, wall thickness 5.0mm &1.42m Length	each	6,797.39	6,797.39	6,797.39	6,797.39
6.10.03.10	For End Cap Size:450mm dia, wall thickness 5.6mm &1.42m Length	each	8,392.69	8,392.69	8,392.69	8,392.69
6.10.03.11	For End Cap Size: 500mm dia, wall thickness 6.2mm &1.42m Length	each	10,334.81	10,334.81	10,334.81	10,334.81
6.10.04	Supplying and Installation of uPVC pipe fittings like T-Joints, Bends & End Caps with leak proof O-ring jointing using best quality elastomeric sealing gaskets etc, of different size and wall thickness in accordance with ISO-4422 and ISO-4065, etc. completed including costs of all materials & labors and costs of testing for complete leak proofness and repair and/or replacement of leaking joints, if any, as per design, drawings, specifications and Direction of Engineer-in-Charge.(Same for equal or Unequal)	each				
6.10.04.01	For T-Joints: 160mmx160mmx160mm, Wall thickness 2.5mm&1.47 Length	each	2,066.96	2,066.96	2,066.96	2,066.96
6.10.04.02	For T-Joints: 180mmx180mmx180mm, Wall thickness 2.8mm&1.47 Length	each	2,392.96	2,392.96	2,392.96	2,392.96
6.10.04.03	For T-Joints: 200mmx200mmx200mm, Wall thickness 3.2mm&1.47 Length	each	2,774.44	2,774.44	2,774.44	2,774.44
6.10.04.04	For T-Joints: 225mmx225mmx225mm, Wall thickness 3.50mm&1.47 Length	each	3,364.01	3,364.01	3,364.01	3,364.01
6.10.04.05	For T-Joints: 250mmx250mmx250mm, Wall thickness 3.90mm&1.47 Length	each	4,126.99	4,126.99	4,126.99	4,126.99
6.10.04.06	For T-Joints: 280mmx280mmx280mm, Wall thickness 4.4mm&1.47 Length	each	5,063.36	5,063.36	5,063.36	5,063.36
6.10.04.07	For T-Joints: 315mmx315mmx315mm, Wall thickness 4.90mm&1.47 Length	each	6,367.35	6,367.35	6,367.35	6,367.35
6.10.04.08	For T-Joints: 355mmx355mmx355mm, Wall thickness 5.6mm&1.98 Length	each	9,849.28	9,849.28	9,849.28	9,849.28
6.10.04.09	For T-Joints: 400mmx400mmx400mm, Wall thickness 6.30mm&2.29Length	each	13,109.25	13,109.25	13,109.25	13,109.25
6.10.04.10	For T-Joints: 450mmx450mmx450mm, Wall thickness 7.0mm&2.67Length	each	17,895.17	17,895.17	17,895.17	17,895.17
6.10.04.11	For T-Joints: 500mmx500mmx500mm, Wall thickness 7.80mm&2.67Length	each	21,918.11	21,918.11	21,918.11	21,918.11
6.10.05	Supply of Fiber reinforced uPVC Lay-Flat hose pipe of different dia, wall thickness and weight/m including cost of carrying and storing in a place as directed by the Engineer-in-Charge etc. all completed as per specifications and direction of the Engineer-in-Charge. Sample to be approved by the Engineer-in-Charge before procurement.	m				
6.10.05.01	For 77mm dia pipe,Wall Thickness 1.36mm and weight 0.503 Kg /m	m	193.40	193.40	193.40	193.40
6.10.05.02	For 103mm dia pipe,Wall Thickness 1.40mm and weight 0.664Kg /m	m	262.87	262.87	262.87	262.87
6.10.05.03	For 153mm dia pipe,Wall Thickness 2.0mm and weight 1.06Kg /m	m	456.27	456.27	456.27	456.27
6.10.07	Supplying, fitting and fixing ribbed PVC water stopper with centre bulb of width approx. 250 mm and approx 9 mm thick for immovable (non working) RCC joints, having minimum tensile of strength 8.27 MPa (approx. 1200 psi) minimum ultimate elongation 350%, approximate hardness 50, minimum tear resistance 0.0175 kN/mm (100 lbs/inch) at RCC construction green joints in basements, approved and in consultation with design office, providing 38 mm x 62 mm wooden batten at the top and bottom of water stopper, holding in position and keeping the water stopper in true horizontal or vertical by appropriate means as where necessary etc; all complete and accepted by the Engineer-in-charge. [PWD 08.5.2]	m	1,139.81	1,136.72	1,111.03	1,111.03
6.10.08	Supply Padlo brand of England/German/India	kg	157.64	157.64	157.64	157.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.10.09	Supplying best quality PVC pipes, fitted and fixed in position with sockets head and shoes, bends, clamps and nails etc. all complete in all floors (Aziz / Lira / National / Polymer or equivalent water grade PVC Pipe) as per direction of the E-I-C.					
6.10.09.1	100mm (Inside dia)	m	401.03	401.03	401.03	401.03
6.10.09.2	300mm (Inside dia)	m	4,685.28	4,685.28	4,685.28	4,685.28
6.10.09.3	600mm (Inside dia)	m	12,584.88	12,584.88	12,584.88	12,584.88
6.10.09.4	900mm (Inside dia)	m	18,877.32	18,877.32	18,877.32	18,877.32
6.10.10	Supplying, laying, fitting-fixing of best quality HDPE pipes (RFL, Navana, National Polymer or equivalent) of different diameter including joint, Tee, elbow, reducer and other accessories having PE-100, PN 10 & SDR 17 and other physical, chemical, thermal, fire resistivity properties etc. as per ISO 4427:2007 and BSTI approved manufacturere standards ASTM/BS/ISO/IS standards with all accessories approved and accepted by Engineer-in-Charge.	m				
6.10.10.01	HDPE pipe:32mm outside dia	m	1,148.19	1,148.19	1,148.19	1,148.19
6.10.10.02	HDPE pipe:40mm outside dia	m	1,482.73	1,482.73	1,482.73	1,482.73
6.10.10.03	HDPE Pipe:50mm outside dia	m	1,868.12	1,868.12	1,868.12	1,868.12
6.10.10.04	HDPE Pipe:63mm outside dia	m	2,372.71	2,372.71	2,372.71	2,372.71
6.10.10.05	HDPE Pipe:75mm outside dia	m	3,177.27	3,177.27	3,177.27	3,177.27
6.10.10.06	HDPE Pipe:90mm outside dia	m	3,495.00	3,495.00	3,495.00	3,495.00
6.10.10.08	HDPE Pipe:125mm outside dia	m	4,818.58	4,818.58	4,818.58	4,818.58
6.10.10.09	HDPE Pipe:140mm outside dia	m	5,635.57	5,635.57	5,635.57	5,635.57
6.10.10.11	HDPE Pipe:180mm outside dia	m	9,250.83	9,250.83	9,250.83	9,250.83
6.10.10.13	HDPE Pipe:225mm outside dia	m	14,085.70	14,085.70	14,085.70	14,085.70
6.10.10.15	HDPE Pipe:280mm outside dia	m	19,013.91	19,013.91	19,013.91	19,013.91
6.10.10.16	HDPE Pipe:315mm outside dia	m	22,120.68	22,120.68	22,120.68	22,120.68
6.10.10.17	HDPE Pipe:355mm outside dia	m	25,874.35	25,874.35	25,874.35	25,874.35
6.10.10.18	HDPE Pipe:400mm outside dia	m	30,097.23	30,097.23	30,097.23	30,097.23
6.10.10.19	HDPE Pipe:450mm outside dia	m	34,789.32	34,789.32	34,789.32	34,789.32
6.10.10.20	HDPE Pipe:500mm outside dia	m	39,108.94	39,108.94	39,108.94	39,108.94

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-11: Rubber Bag and Fitting Works						
6.11.01	Supply of High Strength Synthetic Rubber Bag of different thickness made of Polymide/Nylone fabric with 3 plies at site including all cost. Rubber bag shall be Transported in a well protected container and labeled stating list of items with width, length and other pertinent information. Before Aging test the tensile strength (warp) should be greater than 560 KN/M following ASTM D-412 testing method or 840 KN/M following GB-5572 (GB:National standard of China) standard, immersion test required should be greater than 6 Kn per m following ASTM D-751- 95 standard or GB-532 standard . Tensile Strength of Rubber bag- After aging test(Air at 100°c,4days)should be 80%of before ageing test following ASTM D-573-88 WARP(Kn/M)= 80% Tensile strength (warp) before aging test following ASTM D-412,Elongation should be greater than 300%, Immersion Standard used: ASTM D-751-95=6Kn/M, Abrasion Resistance sqm cm/1.61 km Measurement Rubber Layer 0.89 maximum Standard used ASTM D- 963-97 a Hardness as different point Standard used ASTM D-5963-97 a D- 240 (water at 70°c, 4 days) should be greater than 4 KN/M following ASTM D- 51-96 or GB-532 standard used, all manufacture's test reports should be submitted to the purchaser etc. all complete as per design drawing and irection of Engineer-In-Charge.					
6.11.01.01	For 13mm Thick Rubber Bag	sqm	26,007.64	26,007.64	26,007.64	26,007.64
6.11.01.02	For 12mm Thick Rubber Bag	sqm	25,050.46	25,050.46	25,050.46	25,050.46
6.11.01.03	For 11mm Thick Rubber Bag	sqm	24,252.81	24,252.81	24,252.81	24,252.81
6.11.01.04	For 10mm Thick Rubbar Bag	sqm	23,613.30	23,613.30	23,613.30	23,613.30
6.11.02	Supply of High quality Rubber Base cover sheet (10mm-8mm thickness) in single ply at site etc all complete as per design drawing specification and direction of Engineer-In-Charge.	sqm	2,551.78	2,551.78	2,551.78	2,551.78
6.11.03	Supply of Rubber Foam Sheet (Rubber Filler) at Site etc all complete as per design drawing and direction of Engineer-In-Charge. Thickness: 10mm - 12mm	sqm	6,474.72	6,474.72	6,474.72	6,474.72
6.11.04	Supply and Installation of Protect Sheet at Site etc all complete as per design drawing and direction of Engineer-In-Charge.	sqm	7,666.89	7,666.89	7,666.89	7,666.89
6.11.05	Supply of Rubber Glue at Site etc all complete as per direction of Engineer-In-Charge.	kg	674.67	674.67	674.67	674.67
6.11.06	Supplying of 200mdia PVC pipe, 12mm thick used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials fitting, fixing, providing aica as required etc. all complete as per direction of the E-I-C.	m	3,742.98	3,742.98	3,742.98	3,742.98
6.11.07	Supplying of flexible hose pipe (100mm dia) used for removing of sand from rubber dam bed including carrying and supplying of all materials fitting, fixing, etc. all complete as per direction of the E-I-C.	m	916.68	916.68	916.68	916.68
6.11.08	Supplying and installation of Water cap structure used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 16mm thick MS plate, MS rod, nuts, bolts, 200mm flank 10K, rubber washer, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	3,680.17	3,680.17	3,680.17	3,680.17
6.11.09	Supplying and installation of 200mmX200mm MS pipe Tee joint used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm MS Tee, nuts, bolts, 200mm flanks 10K, rubber washer, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	11,039.67	11,039.67	11,039.67	11,039.67
6.11.10	Supplying and installation of 200mm dia 90 degree MS bend used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm dia. MS bend, nuts, bolts, 200mm flanks 10K, rubber washer, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	5,288.19	5,288.19	5,288.19	5,288.19

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.11.11	Supplying and installation of 200mm dia 45 degree MS bend used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm dia. MS bend, nuts, bolts, 200mm flanks 10K, rubber washer, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	3,107.38	3,107.38	3,107.38	3,107.38
6.11.12	Supplying and installation of 200mm dia Flexible Pipe joint used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm dia Flexible pipe joint, nuts, bolts, 200mm flanks 10K, rubber washer, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	14,610.33	14,610.33	14,610.33	14,610.33
6.11.13	Supplying and installation of 200mm dia Dresser Pipe joint used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm dia Dresser pipe, welding, fitting, fixing, all complete as per direction of the E-I-C.	each	2,330.53	2,330.53	2,330.53	2,330.53
6.11.14	Supplying and installation of 150mm-200mm dia Expansion Pipe joint used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 150mm-200mm dia Reducer pipe , welding, fitting, fixing, all complete as per direction of the E-I-C.	each	1,864.43	1,864.43	1,864.43	1,864.43
6.11.16	Supplying and installation of 200mm dia Non return check valve used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 200mm dia MS check valve , welding, fitting, fixing, all complete as per direction of the E-I-C.	each	12,084.87	12,084.87	12,084.87	12,084.87
6.11.17	Supplying and installation of Holding bracket for 200mm dia.MS pipe used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, 5mm thick flat bar, Royal bolts fitting, fixing, all complete as per direction of E-I-C.	kg	168.08	168.08	168.08	168.08
6.11.18	Supplying and installation of Steel fall board at the opening of Sump chamber used in the pipe system of filling and emptying of rubber bag including carrying and supplying of all materials, steel fall board , fitting, fixing, all complete as per direction of the E-I-C.	each	15,536.89	15,536.89	15,536.89	15,536.89
6.11.19	Supply, fitting & fixing of 600 mm dia C.I. man hole cover etc. all complete approved by the Engineer- in- charge. [PWD 26.69]	each	1,869.53	1,867.47	1,860.28	1,860.28
6.11.20	Supply fitting and fixing 25mm thick rubber channel cap at rubber dam of rubber dam as per actual need and direction of E-I-C	m	274.01	274.01	274.01	274.01
6.11.21	Supply fitting and fixing 25mm thick rubber cork at the joining of steel sheet piles as per actual need and direction of E-I-C	each	36.72	36.72	36.72	36.72
6.11.23	Supplying and installing embedded metal in RCC structure including placing, setting and aligning true to line level and position including grinding to smooth edges, corners, welding in place including supplying of all materials, tools, equipments and labour etc. complete as per design drawings, specification of works and direction of the Engineer-in-Charge.					
6.11.23.01	Rubber bag anchoring platens and pads bolts, double nuts, split washers, etc. in full sets.					
6.11.23.01.1	Type A, B & C	set	9,893.37	9,862.85	9,774.82	9,774.82
6.11.23.01.2	Type D & E	set	7,560.35	7,529.83	7,441.80	7,441.80
6.11.24	Fitting and fixing of the rubber bag in position with anchor bolts with pad & platens, washers, nuts etc. under the guidance of experts including local handling and unloading from contractor's vehicles, supply of labours, tools and equipment, chemicals (toluene, rubber glue etc) as required, making adjustments in fitting and fixing, if required after test filling of the dam seating gaps and slots by cement grout/mortar etc. all complete as per drawings, specifications and direction of the experts and E-I-C.	m	15,511.67	15,219.09	14,124.44	14,124.44

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-12: Dismantling Works						
6.12.04	Taking out of RCC according to design and drawing to rehabilitate of existing structures like culverts, bridges, regulator, WRS, retaining walls etc by mechanical means and sorting the crushed material, disposal of unserviceable material and stackting the serviceable material with all lifts and lead up to 1000 meters including scrapping and removing concrete from MS rods, preparation and erection of platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the site and clearing the river/canal bed, etc. all complete as per direction of the E-I-C. Cost of conveying, loading, transportation of unserviceable material accumulated during dismantling operation is included in this unit rate. The unserviceable material must be disposed at a safe place outside the site premises with minimum traffic disruption and the procuring entity will not provide any environmentally safe place for disposing the unserviceable materials.	cum	10,006.92	9,975.39	9,880.81	9,880.81
Section-13: De-watering, Bailing out water, Ring Bundh and Miscellaneous Works						
6.13.05	Providing cork sheet/polystyrine sheet in expansion joints of concrete works including supply of all materials etc. complete as per direction of Engineer in charge.					
6.13.05.1	25mm thick sheet	sqm	296.71	294.18	290.37	290.37
6.13.05.2	20mm thick sheet	sqm	296.71	294.18	290.37	290.37
6.13.06	Filling of expansion joints upto a depth of 40mm with bitumen mixed with coarse sand (FM>=2.5) in concrete works including supply of all materials etc. complete as per specification and direction of Engineer in charge.					
6.13.06.1	25mm wide	m	119.40	118.07	115.38	115.35
6.13.06.2	20mm wide	m	95.56	94.51	92.34	92.32
6.13.10	Construction of sanitary latrine consists of inspection pit, well with CC ring, well cover, soil pipe and air vent pipe including cost of all materials, labours, tools etc., all complete as per drawings, design and direction of the Engineer-in-Charge.	each	11,091.09	11,014.82	10,643.76	10,640.50
6.13.11	Inscribing the name at O&M Shed with address and date of registration with sand cement mortar (1:4) etc. all complete as per direction of the E/C.	LS				
6.13.13	Temporary Latrine for LCS Members with bamboo post and jute bag/tarja wall etc. complete as per direction of the Engineer-in-Charge.	each	1,434.96	1,428.65	1,403.43	1,403.43
6.13.15	Taking out the gauge from the gauge post including re-fixing to the post by supplying bolts and nuts or nails etc. all complete as per direction of the E-I-C.	each	156.38	153.86	143.77	143.77
6.13.16	Supplying bamboo sounding rods 5m long and minimum 50mm external diameter with black and white painting at every alternative meter with decimals in figuring etc. all complete as per direction of the Engineer - in - charge.	each	739.57	739.57	708.04	708.04
6.13.17	Shifting of any gauge & de-fixing as per direction of the E-I-C.	each	138.72	136.20	126.11	126.11
6.13.18	Erection of bamboo fencing around a gauge with full bamboo pieces 3m to 4m long (75mm to 100mm dia) with 1m to 1.5m driven into the ground and 50mm dia bamboo walling fitted and fixed with nails and binding by wire and ropes (enclosure 1.22mx1.22m) etc. all complete as per direction of the E-I-C.	each	6,830.81	6,756.02	6,642.90	6,642.90
6.13.21	Supplying of first aid box for construction site, office, team travel used with emergency medical first aid kit in hand held pp tool box packing. all complete in all respect as per approved specification and direction of the Engineer-in-charge.	each	4,078.43	4,078.43	4,078.43	4,078.43

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
6.13.22	Supplying of Best Quality Safety Jacket for construction works made of 100% polyester waterproof fabric, Fluorescent yellow/orange/green/red/blue or Pantone color. all complete in all respect as per approved specification and direction of the Engineer-in-charge.	each	1,747.90	1,747.90	1,747.90	1,747.90
6.13.25	Supplying of Best Quality Safety Helmate of ABS shell, tough, lightweight, durable. Available with four-point or six-point adjustable suspension for shock-absorbing and rain through prevents water from dropping down to the neck, reinforced ribs on top provides the perfect impact protection. Slotted sides to accommodate accessories, such as face shields, ear muffs. Chin Strap not included. all complete in all respect as per approved specification and direction of the Engineer-in-charge.	each	728.29	728.29	728.29	728.29
Section-14: Rubber Dam						
6.14.01	Labour charge for unlocking old rubber bag from central floor of rubber dam, including breaking of existing cement concrete, removing bolts and washers carefully without any damage, cleaning rubber bag & floor with appropriate means (by water spraying using hose pipe), taking away the rubber bag and dismantled materials from existing position safely to a suitable and safe distance, carrying, all sorts of handling, stacking smoothly the same properly, preparation and making artificial casing by angles where necessary, including cost of all necessary accessories, their carriages, wages of labour, technicians, incidental charges etc. all complete, approved and accepted by the Engineer-in-Charge.					
6.14.01.1	Placing on the river/khal bank or in the WMCA premises up to 5.0 km	m	10,385.00	10,190.66	9,479.85	9,479.85
6.14.01.2	Placing other places for additional for each 1 km beyond 5 km	m	10,904.25	10,700.19	9,953.84	9,953.84
6.14.02	Labour charge for repairing of rubber bag with suitable strong adhesive and 5 mm thick rubber sheet, including cleaning, washing and drying the defective portion of bag, making scaffolding and platform if necessary, clean off and remove waste and debris, including cost of all necessary accessories, their carriages, wages of labour, technicians, incidental charges etc. all complete, approved and accepted by the Engineer-in-Charge.	sqm	1,974.71	1,969.98	1,951.07	1,951.07
6.14.03	Supplying, fitting, fixing and setting of 12mm thick rubber felt on steel sheet pile or any other specified location where necessary, including cost of cleaning, washing, drying the surface and all necessary accessories, their carriages, wages of labour, technicians and incidental charges etc. all complete, approved and accepted by the Engineer-in-Charge	sqm	3,419.50	3,419.12	3,418.24	3,418.24
6.14.04	Supplying, fitting, fixing and setting of 25mm thick rubber felt on steel sheet pile or any other specified location where necessary, including cost of cleaning, washing, drying the surface and all necessary accessories, their carriages, wages of labour, technicians and incidental charges etc. all complete, approved and accepted by the Engineer-in-Charge.	sqm	6,957.87	6,957.30	6,955.97	6,955.97
6.14.05	Carrying charge for old Rubber bag from Rubber dam site or from any other places to Upazila HQ or any other specified location by truck or by any other means safely, including loading, unloading, placing, stacking to a suitable place smoothly and safely without any damage, including hire charge of vehicles, cranes, cost of all necessary accessories, wages of labour, technicians and incidental charges etc. all complete and accepted by the Engineer-in-Charge.	tonne-km	42.25	41.36	38.46	38.46

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 7 : Sanitary, Water Supply & Gas Connection Works						
Section-1: Long Pan, Oriental pan & Lowdown						
7.01	Supplying, fitting and fixing of European type country made best quality glazed porcelain combi closet (two piece), including plastic seat cover with soft closing ,cistern system, water consumption 6 litre, siphon wash down/siphon jet single or dual flushinging system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 280~305 mm.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark.The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge.					
7.01.1	Approx. 670~690 X 360~ 362 mm size, minimum 27.5 kg of weight; Equivalent to Stella:Victoria /Stella: Imola / RAK: Amy / RAK: Karla or similar brand (PWD BW 26.01.1)	each	9,211.97	9,180.11	9,100.97	9,100.97
7.01.2	Approx. 665~ 704 X 360~ 390 mm size, minimum 31.00 kg of weight : Equivalent to CHARU :CM18/ CHARU: CM15 / Stella :Marcela / RAK :Tampa / Stella: Marcela or similar brand (PWD BW 26.01.2)	each	10,756.72	10,724.86	10,645.72	10,645.72
7.01.3	Approx. 639~670 X 370 ~399 mm size, minimum 32.5 kg of weight, Equivalent to RAK :Orient Standard /Stella: Verso or similar brand (PWD BW 26.01.3)	each	11,766.00	11,734.14	11,655.00	11,655.00
7.01.4	Approx. 670~670 X 350~390 mm size, minimum 25.2 kg of weight, Equivalent to COTTO :C1480 /COTTO: C13960 / RAK Series 600 or similar brand (PWD BW 26.01.4)	each	13,632.44	13,600.58	13,521.44	13,521.44
7.01.5	Approx. 668~750 x 356 ~430 mm size, minimum 37 .0 kg of weight, Equivalent to COTTO :C1390/Stella:Isabella /RAK: Washington / RAK: Jumairah or similar brand (PWD BW 26.01.5)	each	16,309.81	16,277.94	16,198.81	16,198.81
7.01.6	Approx. 700~725 X 360~ 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470 / RAK: Venic or similar brand (PWD BW 26.01.6)	each	18,323.22	18,292.39	18,212.22	18,212.22
7.01.7	Approx. 702~ 750x 380~412 mm size, minimum 40.0 kg of weight, Equivalent to COTTO: C118 / RAK: Shino or similar brand (PWD BW 26.01.7)	each	22,700.53	22,669.69	22,589.53	22,589.53
7.01.8	Approx. 730~ 735x 430~440 mm size, minimum 42.0 kg of weight, Equivalent to COTTO: 109 / COTTO: 129 or similar brand (PWD BW 26.01.8)	each	25,511.50	25,480.67	25,400.50	25,400.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-2: Commode & Lowdown, seat cover, flushing Siphon						
7.02	Supplying, fitting and fixing of country made European type special quality combi closet (one piece) including inbuilt flushing unit, of white color, including plastic seat cover with soft closing ,cistern system, water consumption 6 litre, siphon jet single flushinging system which reduce water consumption, hygienic glaze in toilet bowl ,glaze in inner waste line, round bowl, outlet range 280~305 mm.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark.The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge.					
7.02.1	Approx. 695~719 X 340~395 mm size, minimum 39.5 kg of weight; Equivalent to RAK :Metropolitan / Stella: Vivana or similar brand (PWD BW 26.02.1)	each	17,693.19	17,673.67	17,614.06	17,614.06
7.02.2	Approx. 685~729 X 360~406 mm size, minimum 36.0 kg of weight; Equivalent RAK: Oasis/Stella: Evana/ Stella: Marlina or equivalent model (PWD BW 26.02.2)	each	21,980.06	21,961.56	21,900.92	21,900.92
7.02.3	Approx. 715~735 X 280~480 mm size, minimum 39.5 kg of weight; Equivalent to COTTO - C1053 / COTTO: 1141 / CHARU: CM 950 / RAK: Galaxy or similar brand (PWD BW 26.02.3)	each	26,394.36	26,375.86	26,315.22	26,315.22
7.02.4	Approx. 760~735 X 430~490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola / COTTO: C1026 or similar brand (PWD BW 26.02.4)	each	32,699.78	32,681.28	32,620.64	32,620.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-3: Commode - Lowdown & WH Basin -Pedestal Set						
7.03	Supplying, fitting and fixing of country made European type glazed combi closet (Wall Hung) with concealed cistern, of any color including plastic seat cover with soft closing, water consumption 6 litre, Wash Down Daul flushinging system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 225~230 mm.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark.The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer Engineer- in- charge.					
7.03.1	Approx. 540 X 360 mm size, minimum 16.00 kg of weight (PWD BW 26.03.1)	each	22,862.92	22,844.42	22,783.78	22,783.78
7.03.2	Approx. 570 X 375 mm size, minimum 22.00 kg of weight (PWD BW 26.03.2)	each	30,682.25	30,663.75	30,603.11	30,603.11
7.03.3	Approx. 560 X 360 mm size, minimum 26 kg of weight (PWD BW 26.03.3)	each	40,266.28	40,247.78	40,187.14	40,187.14

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-4: WH Basin, Pedestal Set, Cabinet Basin & Sink						
7.04	Supplying, fitting and fixing of European type country made glazed combi closet (Flush Valve) including flush valve, of any color, Approx. 380 mm x 710 mm x 800 mm size, minimum 28.00 kg of weight, excluding flush valve, including plastic seat cover with soft closing, Siphon jet single flushing system which reduce water consumption, hygienic glaze in toilet bowl, glaze in inner waste line, round bowl, outlet range 305 mm.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark.The fixure should be placed in position preparing the base with cement concrete and with wire mesh or rods if necessary, in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing, complete with all necessary fittings and connection approved and accepted by the Engineer- in- charge. (PWD BW 26.04)	each	27,145.67	27,126.14	27,066.53	27,066.53
Section-5: Flat Urinal & Standing Urinal						
7.05	Supplying, fitting and fixing of country made glazed vitreous standing bowl urinal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position after making holes in walls and floors, providing 32 mm dia plastic waste pipe with brass coupling up to grading below, 12 mm dia plastic connection pipe with brass coupling, 12 mm dia brass stop cock including mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
7.05.1	Approx. 330 X 355 X 445 mm size, minimum 10.0 kg of weight (PWD BW 26.05.1)	each	3,578.72	3,568.44	3,531.44	3,531.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.05.2	Approx. 300 X 370 X 510 mm size, minimum 11.0 kg of weight. (PWD BW 26.05.2)	each	4,405.06	4,394.78	4,357.78	4,357.78
7.05.3	Approx. 315 X 330 X 600 mm size, minimum 17.0 kg of weight. (PWD BW 26.05.3)	each	7,355.81	7,345.53	7,308.53	7,308.53
7.05.4	Approx. 300 X 350 X 690 mm size, minimum 18.0 kg of weight (PWD BW 26.05.4)	each	13,572.83	13,563.58	13,525.56	13,525.56
Section-6: Bib cock, Pillar cock, Sink cock, Faucets, Basin Mixture, Stop cock, Push shower, Shower Rose						
7.06	Supplying, fitting and fixing of country made glazed vitreous china flat or squatting urinal approx. 510 mm x 380 mm x 85 mm in size, minimu 9.5 kg of weight. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position with flushing inlet fitted in cement mortar (1:4) with painted cast iron body: one gallon capacity, automatic flushing cistern in each group etc. including 12 mm brass controlling valve, 32 mm dia PVC flush pipe with brass coupling, 12 mm dia plastic lead (connection) pipe including mending good the damages with 1:4 cement mortar etc. all complete approved and accepted by the Engineer- in- charge. (PWD BW 26.06)	each	3,426.61	3,413.25	3,365.97	3,365.97

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-7: Looking Glass, Glass shelf, Towel rail, Soap case, Toilet Paper holder						
7.07	Supplying, fitting and fixing of Bangladesh pattern, long pan with foot-rest.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
7.07.1	Approx. 520 X 406.4 X 223.52 mm size, minimum 10.0 kg of weight (PWD BW 26.07.1)	each	2,105.92	2,086.39	2,026.78	2,026.78
7.07.2	Approx. 530 X 400 X 230 mm size, minimum 11.0 kg of weight (PWD BW 26.07.2)	each	2,301.19	2,281.67	2,222.06	2,222.06
7.07.3	Approx. 554 X 439. X 249 mm size, minimum 12.5 kg of weight (PWD BW 26.07.3)	each	2,773.97	2,755.47	2,694.83	2,694.83
7.07.4	Approx. 540 X 460 X 290 mm size, minimum 13.5 kg of weight (PWD BW 26.07.4)	each	2,812.00	2,792.47	2,732.86	2,732.86
7.07.5	Approx. 540 X 470 X 290 mm size, minimum 16 kg of weight (PWD BW 26.07.5)	each	2,937.39	2,918.89	2,858.25	2,858.25

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-8: Pipe of uPVC, ABS, PVC, HCI, CI, RCC etc. for Rainwater, Water supply, Soil, Waste etc.						
7.08	Supplying, fitting and fixing of European type glazed porcelain low-down. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure shoild be placed on walls or directly over water closet by necessary accessories, rowel plugs, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
7.08.1	Approx. 365 X 185 X 325 mm size, minimum 10.00 kg of weight (PWD BW 26.08.1)	each	3,708.22	3,695.89	3,660.94	3,660.94
7.08.2	Approx. 490 X 190 X 345 mm size, minimum 11.00 kg of weight (PWD BW 26.08.2)	each	4,128.58	4,116.25	4,081.31	4,081.31
7.08.3	Approx. 490 X 190 X 350 mm size, minimum 14 kg of weight (PWD BW 26.08.3)	each	4,182.03	4,168.67	4,134.75	4,134.75
Section-9: Water supply GI, MS Pipe & fittings						
7.09	Supplying, fitting and fixing of plastic low-down of any color, on walls or directly over water closet with necessary accessories, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge. (PWD BW 26.09)	each	2,497.50	2,484.14	2,450.22	2,450.22
Section-10: Water Tank (PVC, Stain less steel, Fiber)						
7.10	Supplying, fitting and fixing of flush valve for water closet on walls or directly over water closet with necessary accessories, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. all complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge.					
7.10.1	Flush valve (local) (PWD BW 26.10.1)	each	15,044.61	15,035.36	15,007.61	15,007.61
7.10.2	Flush Valve (foreign) (PWD BW 26.10.2)	each	25,165.14	25,154.86	25,127.11	25,127.11
Section-11: Inspection Pit, Septic Tank & Soak well						
7.11	Supplying, fitting and fixing of flush valve for urinal on walls or directly over water closet with necessary accessories,, rowel plugs, making holes wherever required and mending good the damages and fitting, fixing & finishing etc. all complete with all necessary fittings and connections approved and accepted by the Engineer- in- charge. (PWD BW 26.11)	each	5,997.08	5,986.81	5,959.06	5,959.06

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-12: Two-pit Latrine						
7.12	Supplying, fitting and fixing of country made glazed vitreous W/H wash basin excluding pedestal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
7.12.01	Over Counter: Approx. 400X 200 mm, minimum weight 6.0 kg (PWD BW 26.12.1)	each	3,627.03	3,607.50	3,554.06	3,554.06
7.12.02	Over Counter: Approx. 445X 345 mm, minimum weight 7.0 kg (PWD BW 26.12.2)	each	3,916.86	3,898.36	3,843.89	3,843.89
7.12.03	Over Counter:Approx. 535X 435 mm, minimum weight 7.5 kg (PWD BW 26.12.3)	each	4,471.86	4,453.36	4,398.89	4,398.89
7.12.04	Over Counter: Approx. 560 X 475 mm size, minimum weight 10.0 kg (PWD BW 26.12.4)	each	4,572.58	4,554.08	4,500.64	4,500.64
7.12.05	Under Counter: Approx. 570 X 420 mm size, minimum weight 7.5 kg (PWD BW 26.12.5)	each	4,389.64	4,371.14	4,317.69	4,317.69
7.12.06	Under Counter: Approx. 515 X 365 mm size, minimum weight 9.5 kg (PWD BW 26.12.6)	each	6,054.64	6,036.14	5,981.67	5,981.67
7.12.07	Table Top: Approx. 400X 400 mm size, minimum weight 6.0 kg (PWD BW 26.12.7)	each	5,670.25	5,650.72	5,597.28	5,597.28
7.12.08	Table Top: Approx. 450X 450 mm size :minimum weight 10.0 kg (PWD BW 26.12.8)	each	6,728.86	6,710.36	6,656.92	6,656.92
7.12.09	Table Top: Approx. 480X 370 mm size, minimu weight 10.0 kg (PWD BW 26.12.9)	each	6,956.00	6,937.50	6,884.06	6,884.06
7.12.10	Table Top: Approx. 485X 380 mm size, minimum weight 11.0 kg (PWD BW 26.12.10)	each	8,104.03	8,084.50	8,031.06	8,031.06
7.12.11	Corner Basin: Approx. 540X 400 mm size, minimum weight 7.5 kg (PWD BW 26.12.11)	each	3,689.72	3,671.22	3,617.78	3,617.78
7.12.12	Corner Basin: Approx. 460X 390 mm size, minimu weight 15.0 kg (PWD BW 26.12.12)	each	4,648.64	4,629.11	4,575.67	4,575.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-13: Bathtub						
7.13	Supplying of country made glazed vitreous W/H wash basin of any color including pedestal.The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
7.13.01	Approx. 436 x 343 mm, minimum weight 14.8 kg (PWD BW 26.13.1)	each	3,940.50	3,931.25	3,893.22	3,893.22
7.13.02	Approx. 457 x 406 mm, minimum weight 15.3 kg (PWD BW 26.13.2)	each	4,194.36	4,184.08	4,147.08	4,147.08
7.13.03	Approx. 521 x 419 mm, minimum weight 17.7 kg (PWD BW 26.13.3)	each	4,314.61	4,304.33	4,267.33	4,267.33
7.13.04	Approx. 508 x 394 mm, minimum weight 17.3 kg (PWD BW 26.13.4)	each	4,339.28	4,329.00	4,292.00	4,292.00
7.13.05	Approx. 540 x 450 mm, minimum weight 20.1 kg (PWD BW 26.13.5)	each	4,389.64	4,379.36	4,342.36	4,342.36
7.13.06	Approx. 495 x 394 mm, minimum weight 17.3 kg (PWD BW 26.13.6)	each	4,528.39	4,518.11	4,481.11	4,481.11
7.13.07	Approx. 513 x 432 mm, minimum weight 17.8 kg (PWD BW 26.13.7)	each	4,654.81	4,644.53	4,607.53	4,607.53
7.13.08	Approx. 564 x 419 mm, minimum weight 18.8 kg (PWD BW 26.13.8)	each	4,781.22	4,770.94	4,733.94	4,733.94
7.13.09	Approx. 584 x 437 mm, minimum weight 20 kg (PWD BW 26.13.9)	each	4,970.33	4,960.06	4,923.06	4,923.06
7.13.10	Approx. 560 x 450 mm, minimum weight 22.8 kg (PWD BW 26.13.10)	each	5,039.19	5,028.92	4,991.92	4,991.92
7.13.11	Approx. 572 x 437 mm, minimum weight 20.3 kg (PWD BW 26.13.11)	each	5,153.28	5,143.00	5,106.00	5,106.00
7.13.12	Approx. 648 x 488 mm, minimum weight 20 kg (PWD BW 26.13.12)	each	5,443.11	5,432.83	5,395.83	5,395.83
7.13.13	Approx. 605 x 485 mm, minimum weight 22.5 kg (PWD BW 26.13.13)	each	5,525.33	5,515.06	5,477.03	5,477.03
7.13.14	Approx. 630 x 520 mm, minimum weight 28 kg (PWD BW 26.13.14)	each	5,789.47	5,779.19	5,742.19	5,742.19
7.13.15	Approx. 559 x 483 mm, minimum weight 24.5 kg (PWD BW 26.13.15)	each	6,042.31	6,032.03	5,995.03	5,995.03
7.13.16	Approx. 656 x 510 mm, minimum weight 26 kg (PWD BW 26.13.16)	each	7,253.03	7,242.75	7,205.75	7,205.75
7.13.17	Approx. 500 x 450 mm, minimum weight 25.6 kg (PWD BW 26.13.17)	each	7,353.75	7,343.47	7,306.47	7,306.47
7.13.18	Approx. 520 x 425 mm, minimum weight 26.2 kg (PWD BW 26.13.18)	each	7,706.28	7,696.00	7,659.00	7,659.00

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.13.19	Approx. 665 x 490 mm, minimum weight 29.5 kg (PWD BW 26.13.19)	each	7,838.86	7,828.58	7,791.58	7,791.58
7.13.20	Approx. 660 x 525 mm, minimum weight 31.5 kg (PWD BW 26.13.20)	each	8,040.31	8,031.06	7,993.03	7,993.03
7.13.21	Approx. 600 x 440 mm, minimum weight 26 kg (PWD BW 26.13.21)	each	8,122.53	8,112.25	8,075.25	8,075.25
7.13.22	Approx. 525 x 415 mm, minimum weight 27.4 kg (PWD BW 26.13.22)	each	8,677.53	8,667.25	8,630.25	8,630.25
7.13.23	Approx. 650 x 510 mm, minimum weight 25 kg (PWD BW 26.13.23)	each	8,753.58	8,743.31	8,706.31	8,706.31
7.13.24	Approx. 550 x 470 mm, minimum weight 34 kg (PWD BW 26.13.24)	each	10,644.69	10,634.42	10,597.42	10,597.42
7.14	Supplying of country made glazed vitreous W/H wash basin of any color including semi-pedestal/ half pedestal. The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position with heavy type C.I. Brackets. 30 mm dia PVC waste water pipe with brass coupling (not exceeding 750 mm in length), basin waste with chain plug including making holes in walls and floors and fitting with wall, screws and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
7.14.1	Approx. 510X 400 mm size, minimum weight 15 kg (PWD BW 26.14.1)	each	4,288.92	4,278.64	4,241.64	4,241.64
7.14.2	Approx. 550X 440 mm size, minimum weight 17 kg (PWD BW 26.14.2)	each	6,583.94	6,573.67	6,536.67	6,536.67
7.14.3	Approx. 600X 500 mm size, minimum weight 18.5 kg (PWD BW 26.14.3)	each	7,428.78	7,419.53	7,381.50	7,381.50
7.14.4	Approx. 550 X 460 mm size, minimum weigh 20.0 kg (PWD BW 26.14.4)	each	7,605.56	7,595.28	7,558.28	7,558.28
7.15	Supplying, fitting and fixing basin pedestal of Approx. size of 670 mm x 186 mm x 170 mm, any color with rowel plug and screws etc. all complete approved and accepted by the Engineer- in- charge. (PWD BW 26.15)	each	2,565.33	2,559.17	2,542.72	2,542.72

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.16	Supplying, fitting and fixing of country made porcelain sink of any color, approx. 635 mm x 480 mm x195 mm size, 19.5 kg of weight. (PWD BW 26.16)The sanitary ware shall conform BDS1162:2014. The glaze shall be thoroughly fused to body. The minimum thickness of body at any section shall be 5 mm. When assembled together and when examined from a distance of 60 cm, the outer surface shall not show to the unaided eye, blemishes or defects in excess of those listed in BDS standard. The mean value of water absorption shall not be greater than 0.5% of the ware when dry. When tested with chemical solutions (Acetic acid, Citric acid, Detergent, Hydrochloric acid, Sodium hydroxide, Sodium stearate and Sulfuric acid of various strength) as per BDS1162:2014 procedure, none of the test pieces should suffer any loss of reflectivity on the glaze. There shall be no crazing and no stain on the ware. The materials used for making glaze shall not contain lead compound. In case of certain coloring oxides used for making colored glaze, the lead content, if any, shall not exceed 5 percent of the weight of the glaze materials. Appliances shall be clearly and indelibly marked at a prominent place, visible even after the appliances are installed with the following: a) manufacturer's name and/or registered trademark, b) the number of Bangladesh standard and c) country of origin. Each product shall also be marked with the BSTI Certification Mark. The fixure should be placed in position fitted and fixed with heavy type C.I. brackets, 12 mm dia C.P. bib cock, 40 mm dia C.P. chain plug. 40 mm dia. C.P. waste, 32 mm dia PVC waste pipe with brass coupling (750 mm length) including making holes in walls and floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.	each	3,959.00	3,950.78	3,927.14	3,927.14
7.17	Supplying, fitting and fixing of best quality single bowl stainless steel sink with heavy type CI steel brackets, 40 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing with 1:4 cement mortar etc. all complete approved and accepted by the Engineer-in-charge.					
7.17.1	Approx. 508 X 406 mm size single bowl without sink tray (PWD BW 26.17.1)	each	3,687.67	3,680.47	3,656.83	3,656.83
7.17.2	Approx. 508 X 457 mm size single bowl without sink tray (PWD BW 26.17.2)	each	3,801.75	3,793.53	3,769.89	3,769.89
7.17.3	Approx. 610 X 457 mm size single bowl without sink tray (PWD BW 26.17.3)	each	4,204.64	4,196.42	4,172.78	4,172.78
7.17.4	Approx. 762 X 457 mm size single boel with sink tray (PWD BW 26.17.4)	each	5,446.19	5,439.00	5,415.36	5,415.36
7.17.5	Approx. 914 X 457 mm size single bowl with sink tray (PWD BW 26.17.5)	each	5,572.61	5,565.42	5,540.75	5,540.75
7.17.6	Approx. 1016 X 508 mm size single bowl with sink tray (PWD BW 26.17.6)	each	6,570.58	6,563.39	6,539.75	6,539.75
7.18	Supplying, fitting and fixing of best quality double bowl stainless steel sink with heavy type CI or steel brackets, 12 mm dia C.P. chain plug, 40 mm dia C.P. waste, 40 mm dia PVC waste pipe with brass coupling (750 mm length) including making hole in walls and floors and mending good the damages, finishing etc. all complete approved and accepted by the Engineer-in-charge.					
7.18.1	Approx. 1160 x 500 mm size double bowl with sink tray (Standard) (PWD BW 26.18.1)	each	8,724.81	8,714.53	8,683.69	8,683.69
7.18.2	Approx. 1160 x 500 mm size double bowl with sink tray (Super) (PWD BW 26.18.2)	each	12,508.06	12,497.78	12,466.94	12,466.94
7.18.3	Approx. 1160 x 500 mm size double bowl with sink tray (Special) (PWD BW 26.18.3)	each	18,183.44	18,173.17	18,142.33	18,142.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.19	Supplying, fitting and fixing of 5 mm thick unframed super quality double coated mirror with all necessary fitting including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer-in-charge.					
7.19.1	Local Mirror, 5 mm thickness (PWD BW 26.19.1)	sqm	2,661.94	2,643.44	2,579.72	2,579.72
7.19.2	Belgium Mirror, 5 mm thickness (PWD BW 26.19.2)	sqm	1,771.89	1,766.75	1,750.31	1,750.31
Section-20: Fire Protection System (Extinguisher)						
7.20	Supplying, fitting and fixing of super quality 600 mm x 125 mm coloured glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. (PWD BW 26.20)	each	1,880.83	1,875.69	1,858.22	1,858.22
Section-21: Fire Protection System (Hydrant)						
7.21	Supplying, fitting and fixing of super quality 600 x 125 mm white glass (plate) shelf having 5 mm thickness with fancy C.P. brackets, screws and frames including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. (PWD BW 26.21)	each	1,060.67	1,055.53	1,038.06	1,038.06
Section-22: Fire Detection & Alarm System (Conventional Type)						
7.22	Supplying, fitting and fixing of country made best quality towel rail/ring/shelf minimum 20 mm in dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
7.22.1	C.P. towel ring/ 450 mm long single towel rail (PWD BW 26.22.1)	each	737.94	736.92	733.83	733.83
7.22.2	600 mm long C.P. single towel rail (PWD BW 26.22.2)	each	737.94	736.92	733.83	733.83
7.22.3	600 mm long C.P. double towel rail (PWD BW 26.22.3)	each	1,299.11	1,298.08	1,295.00	1,295.00
7.22.4	600 mm long C.P. towel shelf (PWD BW 26.22.4)	each	1,691.72	1,690.69	1,686.58	1,686.58
Section-23: Fire Detection & Alarm System (Addressable Type)						
7.23	Supplying, fitting and fixing of best quality toilet paper holder of standard size including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
7.23.1	PVC toilet paper holder (PWD BW 26.23.1)	each	301.14	300.11	296.00	296.00
7.23.2	C.P iron bracket toilet paper holder (PWD BW 26.23.2)	each	382.33	382.33	378.22	378.22
7.23.3	Porceain toilet paper holder (any color) (PWD BW 26.23.3)	each	830.44	829.42	826.33	826.33
7.23.4	Stainless steel toilet paper holder (PWD BW 26.23.4)	each	578.64	577.61	573.50	573.50
Section-24: Fire Rated Door						
7.24	Supplying, fitting and fixing of standard size country made soap tray including making holes in walls and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge.					
7.24.1	PVC soap tray (PWD BW 26.24.1)	each	154.17	153.14	149.03	149.03
7.24.2	C.P. soap tray (PWD BW 26.24.2)	each	242.56	241.53	237.42	237.42
7.24.3	Porcelain soap tray (any color) (PWD BW 26.24.3)	each	431.67	430.64	426.53	426.53
7.24.4	Stainless steel soap tray (PWD BW 26.24.4)	each	645.44	644.42	641.33	641.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.25	Supplying, fitting and fixing of Automatic sensor liquid soap dispenser to hold and dispense up to min 600 ml of liquid and lotion soaps, synthetic detergents and antibacterial soaps. Dispenser shall be powered by batteries and shall operate automatically from IR sensor that shall activate soap dispensing when hands are placed in sensor zone. Sensor detection range shall be adjustable by owner. Dispenser shall pump a drop volume of 0.8 ml to 1.0 ml of soap during each activation. A tamper resistant soap level-viewing window shall be provided. Unit shall have a swing open body secured with side-mounted lock that is opened with special key provided, all complete and accepted by the Engineer- in- charge.					
7.25.1	Automatic liquid soap dispenser (local); standard quality (PWD BW 26.25.1)	each	1,678.36	1,671.17	1,655.75	1,655.75
7.25.2	Automatic liquid soap dispenser (local): super quality (PWD BW 26.25.2)	each	3,941.53	3,934.33	3,919.94	3,919.94
7.25.3	Automatic liquid soap dispenser (foreign): special quality (PWD BW 26.25.3)	each	8,011.53	8,004.33	7,988.92	7,988.92
7.26	Supplying, fitting and fixing of Push-Up type liquid soap dispenser to dispense 16 oz (.47 liters) of soap, detergent or lotion. Unit shall be fabricated of tamper resistant, chrome plated plastic, a translucent white polyethylene soap container, and a corrosion resistant dispensing valve which can provide no more than 5 lbs (22.2 Newtons) pressure and unit can be reloaded by unscrewing base from bracket collar, inverting unit, and unscrewing soap container in which soap will continue to feed properly until empty with a continuously visible soap level etc. all complete approved and accepted by the Engineer- in- charge.					
7.26.1	Push-Up type liquid soap dispenser (local): standard quality (PWD BW 26.26.1)	each	1,384.42	1,377.22	1,361.81	1,361.81
7.26.2	Push-Up type liquid soap dispenser (local): super quality (PWD BW 26.26.2)	each	2,109.00	2,101.81	2,087.42	2,087.42
7.26.3	Push-Up type liquid soap dispenser (foreign): suprior quality (PWD BW 26.26.3)	each	6,245.81	6,238.61	6,223.19	6,223.19
7.26.4	Push-Up type liquid soap dispenser (foreign): special quality (PWD BW 26.26.4)	each	9,070.14	9,063.97	9,048.56	9,048.56
7.27	Supplying, fitting and fixing of floor grating net in traps or in drains including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. of following type					
7.27.1	Approx. 50~75 mm dia stainless steel floor grating net (PWD BW 26.27.1)	each	192.19	191.17	188.08	188.08
7.27.2	Approx. 100~125 mm dia stainless steel floor grating net (PWD BW 26.27.2)	each	337.11	336.08	333.00	333.00
7.27.3	Approx. 50 mm x 50 mm stainless steel floor grating net (PWD BW 26.27.3)	each	192.19	191.17	188.08	188.08
7.27.4	Approx. 100 mm x 100 mm stainless steel floor grating net (PWD BW 26.27.4)	each	217.89	215.83	212.75	212.75
7.27.5	Approx. 125 mm x 125 mm stainless steel floor grating net (PWD BW 26.27.5)	each	1,018.53	1,016.47	1,013.39	1,013.39
7.27.6	125 mm dia convex cast iron grating on rain water down pipe (roof top) (PWD BW 26.27.6)	each	570.42	568.36	566.31	566.31
7.28	Supplying, fitting and fixing of 100 mm floor drain with vertical outlet in traps including making holes in walls/floors and mending good the damages with cement mortar (1:4) etc. all complete approved and accepted by the Engineer- in- charge. of following type. (PWD BW 26.28)	each	1,409.08	1,408.06	1,404.97	1,404.97

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.29	Supplying, fitting and fixing of best quality country made 12 mm bib cock made from copper or copper alloy, chromium plated. The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in-charge.					
7.29.1	Round headed CP Conceal Bib Cock short body (Essco/coaster/star/diamond/delux/deco/orbed/delin/triple/master/classic headed or similar head) (PWD BW 26.29.1)	each	1,204.56	1,201.47	1,193.25	1,193.25
7.29.2	Lever CP Conceal Bib Cock long body with aerator (Oliver/spoon/delta/decent lever or similar)(PWD BW 26.29.2)	each	1,204.56	1,201.47	1,193.25	1,193.25
7.29.3	12 mm CP open Bib Cock (PWD BW 26.29.3)	each	1,008.25	1,006.19	997.97	997.97
7.29.4	12 mm CP Two in One Bib Cock (PWD BW 26.29.4)	each	1,898.31	1,895.22	1,887.00	1,887.00
7.29.5	Elbow action CP Bib Cock (PWD BW 26.29.5)	each	3,360.83	3,357.75	3,349.53	3,349.53
7.29.6	CP Push Cock (PWD BW 26.29.6)	each	1,040.11	1,038.06	1,029.83	1,029.83
7.29.7	CP Leaf Cock (PWD BW 26.29.7)	each	838.67	835.58	827.36	827.36
7.30	Supplying, fitting and fixing of best quality surface mounted or conceal stop cock/angle stop cock (lever or round headed) with wall flange chromium plated.The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge.					
7.30.1	12 mm dia CP Concealed Stop Cock (PWD BW 26.30.1)	each	1,185.03	1,182.97	1,174.75	1,174.75
7.30.2	20 mm dia CP Concealed Stop Cock (PWD BW 26.30.2)	each	1,235.39	1,233.33	1,225.11	1,225.11
7.30.3	25 mm dia CP Concealed Stop Cock (PWD BW 26.30.3)	each	1,393.67	1,390.58	1,382.36	1,382.36
7.30.4	CP angle stop cock (PWD BW 26.30.4)	each	1,015.44	1,012.36	1,004.14	1,004.14
7.30.5	CP Two in One angle stop cock (PWD BW 26.30.5)	each	1,299.11	1,296.03	1,287.81	1,287.81
7.31	Supplying, fitting and fixing of best quality pillar cock made from copper or copper alloy, chromium plated materials.The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. all complete approved and accepted by the Engineer- in-charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.31.1	CP Round headed fixed Pillar cock (PWD BW 26.31.1)	each	1,582.78	1,579.69	1,571.47	1,571.47
7.31.2	CP Single lever pillar cock (PWD BW 26.31.2)	each	1,582.78	1,579.69	1,571.47	1,571.47
7.31.3	CP Single lever pillar cock (High top 8") (PWD BW 26.31.3)	each	3,154.25	3,151.17	3,142.94	3,142.94
7.31.4	CP Single lever pillar cock (High top 12") (PWD BW 26.31.4)	each	4,162.50	4,160.44	4,152.22	4,152.22
7.31.5	CP Single lever movig pillar cock (PWD BW 26.31.5)	each	1,943.53	1,940.44	1,932.22	1,932.22
7.31.6	CP Elbow action Pillar cock (PWD BW 26.31.6)	each	3,360.83	3,357.75	3,349.53	3,349.53
7.31.7	CP One way Swan Cock (PWD BW 26.31.7)	each	6,084.44	6,082.39	6,074.17	6,074.17
7.31.8	CP Two way Swan Cock (PWD BW 26.31.8)	each	7,093.72	7,090.64	7,082.42	7,082.42
7.31.9	CP Three way Swan Cock (PWD BW 26.31.9)	each	8,405.17	8,403.11	8,394.89	8,394.89
7.32	Supplying, fitting and fixing of best quality CP self closing pillar cock without mixer (SensorType /Push Type) with necessary hardware etc. complete approved and accepted by the Engineer- in- charge.					
7.32.1	Sensor Type self closing pillar cock (PWD BW 26.32.1)	each	9,480.22	9,476.11	9,463.78	9,463.78
7.32.2	Push Type Self closing pillar cock (PWD BW 26.32.2)	each	1,403.94	1,399.83	1,387.50	1,387.50
7.33	Supplying, fitting and fixing of best quality sink cock made from copper or copper alloy, chromium plated.The faucet conforms BDS EN 200:2009 . The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in- charge.					
7.33.1	12 mm CP concealed fixed sink cock (PWD BW 26.33.1)	each	1,235.39	1,233.33	1,225.11	1,225.11
7.33.2	12 mm CP concealed super quality moving sink cock (PWD BW 26.33.2)	each	1,731.81	1,728.72	1,720.50	1,720.50
7.33.3	12 mm CP concealed special moving sink cock (PWD BW 26.33.3)	each	1,943.53	1,940.44	1,932.22	1,932.22
7.34	Supplying, fitting and fixing of best quality CP basin/sink mixerThe faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in-charge.					
7.34.1	Single handlel/lever basin mixer (PWD BW 26.34.1)	each	3,152.19	3,150.14	3,141.92	3,141.92
7.34.2	Fixed basin mixer (PWD BW 26.34.2)	each	3,348.50	3,345.42	3,337.19	3,337.19
7.34.3	Moving basin mixer (PWD BW 26.34.3)	each	3,411.19	3,409.14	3,399.89	3,399.89
7.34.4	Moving sink mixer (PWD BW 26.34.4)	each	1,943.53	1,940.44	1,932.22	1,932.22

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.35	Supplying, fitting and fixing of best quality 20 mm CP shower mixer.The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in-charge.					
7.35.1	CP shower mixture including shower head only (PWD BW 26.35.1)	each	5,923.08	5,921.03	5,912.81	5,912.81
7.35.2	CP shower mixture including shower head and faucet (PWD BW 26.35.2)	each	7,320.86	7,317.78	7,309.56	7,309.56
7.36	Supplying, fitting and fixing of best quality Bathtub mixer.The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in-charge.					
7.36.1	Bathtub mixer without hand shower (PWD BW 26.36.1)	each	5,111.14	5,108.06	5,069.00	5,069.00
7.36.2	Bathtub mixer including hand shower (PWD BW 26.36.2)	each	5,571.58	5,568.50	5,528.42	5,528.42
7.37	Supplying, fitting and fixing of best quality Single lever angle stop mixer.The faucet conforms BDS EN 200:2009. The faucet tap shall be free from any leakage, permeation and other abnormalities. The water hammer value shall be 1.47 Mpa or under. The faucet after it has been operated 100000 times it shall be free from a seat- leakage and shall satisfy the reverse flow preventing performance. The inside and outside surfaces of the faucet shall be smooth and be free from blowholes, fissures, remarkable flows or injurious defects. The chromium plating on the faucet shall be of class 2 grade 1. The final coating should be done with chromium of minimum 0.1 micron.The faucet shall be made leak proof and fixing in position with selected tape etc. , all complete approved and accepted by the Engineer- in-charge. (PWD BW 26.37)	each	2,346.42	2,344.36	2,336.14	2,336.14
7.38	Supplying and fitting-fixing Chromium plated (CP) Shower head. all complete approved and accepted by the Engineer- in- charge.					
7.38.1	Moving type 100 mm CP shower head (PWD BW 26.38.1)	each	1,285.75	1,283.69	1,275.47	1,275.47
7.38.2	Moving type 150 mm CP shower head (PWD BW 26.38.2)	each	2,339.22	2,337.17	2,328.94	2,328.94
7.38.3	Moving type 200 mm CP shower head (PWD BW 26.38.3)	each	2,604.39	2,601.31	2,593.08	2,593.08
7.38.4	Moving type 250 mm CP shower head (PWD BW 26.38.4)	each	2,906.56	2,904.50	2,896.28	2,896.28
7.39	Supplying and fitting-fixing stainless steel hand / push shower for ablution including holder etc. all complete approved and accepted by the Engineer- in- charge.					
7.39.1	Moving type hand shower (PWD BW 26.39.1)	each	1,494.39	1,491.31	1,483.08	1,483.08
7.39.2	Moving type push shower (PWD BW 26.39.2)	each	1,078.14	1,076.08	1,067.86	1,067.86

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1	2	3	4	5	6	7
7.40	Supplying, fitting and fixing of 100 mm inside diameter & wall thickness 2.7 mm - 3.4 mm best quality uPVC rain water down pipe fitting, fixed in position with head and shoes, bends, min.20 mm width F.I. Bar clamp and nails, and including all accessories such as round grating/domed roof grating, bands, sockets approved and accepted by the Engineer- in- charge. (PWD BW 26.4)	m	1,020.58	1,015.44	996.94	996.94
7.41	Supplying, laying, fitting and fixing of best quality HDPE soil, waste and ventilation pipe having PE-100 (Hydrostatic Strength for PE-100 is 5.0 MPa & 12.4 Mpa at 80°c & 20°c respectively according to ISO 4427:2007(E)), PN-6 (nominal pressure for PN-6 is 0.6 MPa according to ISO 4427:2007(E)) & SDR 26 for soil, waste and ventilation pressure pipe having density 0.940 – 0.970 gm/cm3 and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM/BS/ISO/IS standards ,fitted and fixed in position with necessary joints and fittings with all accesories complete approved and accepted by the Engineer- in- charge.					
7.41.1	For underground including earth cutting & preperation of bed					
7.41.1.01	HDPE pipe of 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm (PWD BW 26.41.1.1)	m	1,555.03	1,550.92	1,527.28	1,527.28
7.41.1.02	HDPE pipe of 160 mm outside dia with wall thickness 6.2 mm - 7.0 mm (PWD BW 26.41.1.2)	m	2,448.17	2,442.00	2,413.22	2,413.22
7.41.1.03	HDPE pipe of 200 mm outside dia with wall thickness 7.7 mm - 8.6 mm (PWD BW 26.41.1.3)	m	4,062.81	4,056.64	4,024.78	4,024.78
7.41.1.04	HDPE pipe of 250 mm outside dia with wall thickness 9.6 mm -10.7 mm (PWD BW 26.41.1.4)	m	6,233.47	6,213.94	6,138.92	6,138.92
7.41.1.05	HDPE pipe of 280 mm outside dia with wall thickness 10.7 mm -11.9 mm (PWD BW 26.41.1.5)	m	8,112.25	8,091.69	8,017.69	8,017.69
7.41.1.06	HDPE pipe of 315 mm outside dia with wall thickness 12.1 mm -13.5 mm (PWD BW 26.41.1.6)	m	9,940.67	9,920.11	9,846.11	9,846.11
7.41.1.07	HDPE pipe of 400 mm outside dia with wall thickness 15.3 mm -17.0 mm (PWD BW 26.41.1.7)	m	15,828.81	15,810.31	15,726.03	15,726.03
7.41.1.08	HDPE pipe of 630 mm outside dia with wall thickness 24.2 mm - 26.7 mm (PWD BW 26.41.1.8)	m	36,793.42	36,769.78	36,660.83	36,660.83
7.41.1.09	HDPE pipe of 710 mm outside dia with wall thickness 27.2 mm - 30.1 mm (PWD BW 26.41.1.9)	m	47,294.22	47,269.56	47,160.61	47,160.61
7.41.1.10	HDPE pipe of 900 mm outside dia with wall thickness 34.4 mm - 38.3 mm (PWD BW 26.41.1.10)	m	70,454.17	70,429.50	70,320.56	70,320.56
7.41.2	For in house system					
7.41.2.1	HDPE pipe 110 mm outside dia with wall thickness 4.2 mm - 4.8 mm (PWD BW 26.41.2.1)	m	2,068.92	2,064.81	2,050.42	2,050.42
7.41.2.2	HDPE pipe 160 mm outside dia with wall thickness 6.2 mm -7.0 mm (PWD BW 26.41.2.2)	m	3,367.00	3,360.83	3,341.31	3,341.31
7.41.2.3	HDPE pipe 200 mm outside dia with wall thickness 7.7 mm -8.6 mm (PWD BW 26.41.2.3)	m	5,375.28	5,369.11	5,349.58	5,349.58
7.41.2.4	HDPE pipe 250 mm outside dia with wall thickness 9.6 mm -10.7 mm (PWD BW 26.41.2.4)	m	8,418.53	8,412.36	8,392.83	8,392.83
7.42	Supplying, fitting and fixing of G.I. pipe with all special fittings, such as bends, elbows, sockets, reducing sockets, Tee, unions, jam-nuts etc. including cutting trenches where necessary and fitting the same with earth duly rammed and fixing in walls with holder bats and making hole in floors, walls and consequent mending good the damages etc. all complete in all respects approved and accepted by the Engineer- in- charge.					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.42.1	12.5 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 17.8 mm, weight 1.31 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.1)	m	453.25	451.19	444.00	444.00
7.42.2	20 mm dia G.I. pipe with wall thickness 2.65 mm, outside diameter min 25.3 mm, weight 1.7 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.2)	m	564.25	562.19	555.00	555.00
7.42.3	25 mm dia G.I. pipe with wall thickness 3.35 mm, outside diameter min 31.7 mm, weight 2.59 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.3)	m	719.44	717.39	711.22	711.22
7.42.4	32 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 38.5 mm, weight 3.33 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.4)	m	908.56	905.47	897.25	897.25
7.42.5	40 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 46.5 mm, weight 3.83 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.5)	m	1,177.83	1,173.72	1,161.39	1,161.39
7.42.6	50 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 57.3 mm, weight 5.38 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.6)	m	1,545.78	1,539.61	1,520.08	1,520.08
7.42.7	62-65 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 71.5 mm, weight 6.15 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.7)	m	2,462.56	2,452.28	2,421.44	2,421.44
7.42.8	75 -80 mm dia G.I. pipe with wall thickness 3.25 mm, outside diameter min 86.5 mm, weight 7.22 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.8)	m	2,679.42	2,669.14	2,636.25	2,636.25
7.42.9	100 mm dia G.I. pipe with wall thickness 3.65 mm, outside diameter min 107.3 mm, weight 10.42 kg/m, can withstand min 50 kg/cm2 hydraulic pressure. (PWD BW 26.42.9)	m	3,824.36	3,812.03	3,772.97	3,772.97
7.43	Supplying different inside dia best quality uPVC soil, waste and ventilation pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm, and other physical, chemical, themal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, of uPVC Pipe with all accessories such as Round grating /domed roof grating bands, sockets etc. approved and accepted by the Engineer- in- charge.					
7.43.1	50 mm inside dia wall thickness 2.5 mm - 3.0 mm (PWD BW 26.43.1)	m	579.67	574.53	556.03	556.03
7.43.2	100 mm inside dia wall thickness 3.4- 4.0 mm (PWD BW 26.43.2)	m	905.47	901.36	888.00	888.00
7.43.3	150 mm inside dia wall thickness 4.5 mm - 5.2 mm (PWD BW 26.43.3)	m	1,643.42	1,637.25	1,617.72	1,617.72
7.44	Supplying and laying uPVC pipe for for underground including fitting, fixing etc. all complete approved and accepted by the Engineer- in-charge.					
7.44.1	150 mm dia with wall thickness 4.5 mm - 6.6 mm uPVC pipe (PWD BW 26.44.1)	m	1,455.33	1,452.25	1,432.72	1,432.72
7.44.2	200 mm dia with wall thickness 5.3 mm - 7.8 mm uPVC pipe (PWD BW 26.44.2)	m	2,162.44	2,160.39	2,135.72	2,135.72
7.44.3	250 mm dia with wall thickness 6.6 mm - 7.6 mm uPVC pipe (PWD BW 26.44.3)	m	3,162.47	3,159.39	3,137.81	3,137.81
7.44.4	280 mm dia with wall thickness 6.9 mm - 8.6 mm uPVC pipe (PWD BW 26.44.4)	m	3,538.64	3,534.53	3,507.81	3,507.81
7.44.5	315 mm dia with wall thickness 7.8 mm - 9.0 mm uPVC pipe (PWD BW 26.44.5)	m	4,452.33	4,448.22	4,422.53	4,422.53

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.45	Supplying different inside dia best quality uPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, themal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.					
7.45.1	12 mm dia wall thickness 1.7 mm - 2.8 mm (PWD BW 26.45.1)	m	172.67	170.61	163.42	163.42
7.45.2	19 mm dia wall thickness 1.9 mm - 2.9 mm (PWD BW 26.45.2)	m	222.00	219.94	212.75	212.75
7.45.3	25 mm dia wall thickness 2.2 mm - 3.4 mm (PWD BW 26.45.3)	m	286.75	283.67	273.39	273.39
7.45.4	32 mm dia wall thickness 2.7 mm - 3.6 mm (PWD BW 26.45.4)	m	292.92	290.86	284.69	284.69
7.45.5	37 mm dia wall thickness 2.5 mm - 3.1 mm (PWD BW 26.45.5)	m	307.31	305.25	299.08	299.08
7.45.6	60 mm dia wall thickness 3.0 mm - 3.9 mm (PWD BW 26.45.6)	m	586.86	583.78	574.53	574.53
7.45.7	75 mm dia wall thickness 2.9 mm - 3.5 mm (PWD BW 26.45.7)	m	655.72	653.67	643.39	643.39
7.45.8	88 mm dia wall thickness 3.5 mm - 4.1 mm (PWD BW 26.45.8)	m	754.39	752.33	741.03	741.03
7.45.9	114 mm dia wall thickness 4.5 mm - 5.2 mm (PWD BW 26.45.9)	m	923.97	921.92	910.61	910.61
7.46	Supplying different inside dia best quality CPVC pressure pipe for water supply having specific gravity 1.35 - 1.45, and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards fitting and fixing in position with sockets, bends, with all accessories such as round grating/domed roof grating, bends, sockets etc. approved and accepted by the Engineer-in-charge.					
7.46.1	12 mm dia wall thickness 2.8 mm - 3.3 mm (PWD BW 26.46.1)	m	273.39	271.33	264.14	264.14
7.46.2	19 mm dia wall thickness 2.9 mm - 3.4 mm (PWD BW 26.46.2)	m	397.75	395.69	388.50	388.50
7.46.3	25 mm dia wall thickness 3.4 mm - 4.0 mm (PWD BW 26.46.3)	m	466.61	463.53	453.25	453.25
7.46.4	32 mm dia wall thickness 3.6 mm - 4.2 mm (PWD BW 26.46.4)	m	642.36	640.31	634.14	634.14
7.46.5	37 mm dia wall thickness 3.7 mm - 4.3 mm (PWD BW 26.46.5)	m	892.11	890.06	883.89	883.89
7.46.6	50 mm dia wall thickness 3.9 mm - 4.5 mm (PWD BW 26.46.6)	m	1,526.25	1,523.17	1,513.92	1,513.92
7.47	Supplying, fitting and fixing of PP-R Pipe for water supply sustaining minimum water pressure PN 20, fullfiling correspondingstandard dimension ratio SDR meeting the perfomance & long-tem strength requirements as per DIN 8077 /78 or ASTM F 2983 including nipple, elbow, reducers, Tee, end cap, plug, socket etc as per manufacturer instruction. all complete accepted by the Engineer- in-charge.					
7.47.1	12 mm dia, minimum wall thickness 2.8 mm (PWD BW 26.47.1)	m	331.97	328.89	315.53	315.53
7.47.2	19 mm dia, minimum wall thickness 3.5 mm (PWD BW 26.47.2)	m	373.08	366.92	352.53	352.53
7.47.3	25 mm dia, minimum wall thickness 4.4 mm (PWD BW 26.47.3)	m	435.78	429.61	416.25	416.25
7.47.4	32 mm dia, minimum wall thickness 5.5 mm (PWD BW 26.47.4)	m	552.94	538.56	524.17	524.17
7.47.5	38 mm dia, minimum wall thickness 6.9 mm (PWD BW 26.47.5)	m	678.33	640.31	625.92	625.92
7.47.6	50 mm dia, minimum wall thickness 8.6 mm (PWD BW 26.47.6)	m	913.69	886.97	873.61	873.61
7.48	Supplying, fitting and laying of Pipes up to depth of invert dia R.C.C pipe having 1.83 meter in length made of stone chips with 40 mm cement joint including all fittings and specials like plain bend, Tees, reducing sockets, junctions, door bends cowls, anti-siphon, gasket and cement joints, making holes in walls and mending good the damages etc. all complete approved and accepted by the Engineer-in- charge.					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.48.1	R.C.C pipe of 150 mm dia with thickness 40mm (PWD BW 26.48.1)	m	1,127.47	1,123.36	1,105.89	1,105.89
7.48.2	R.C.C pipe of 225 mm dia with thickness 40mm (PWD BW 26.48.2)	m	1,786.28	1,780.11	1,750.31	1,750.31
7.48.3	R.C.C pipe of 300 mm dia with thickness 50mm (PWD BW 26.48.3)	m	2,932.25	2,923.00	2,880.86	2,880.86
7.48.4	R.C.C pipe of 375 mm dia with thickness 50mm (PWD BW 26.48.4)	m	3,718.50	3,706.17	3,657.86	3,657.86
7.49	Supplying, fitting and fixing of PP-R Union meeting the perfomance & long-tem strength requirements of ASTM F 2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer- in- charge.					
7.49.1	12 mm PP-R Union (PWD BW 26.49.1)	each	326.83	265.17	257.97	257.97
7.49.2	19 mm PP-R Union (PWD BW 26.49.2)	each	373.08	288.81	280.58	280.58
7.49.3	25 mm PP-R Union (PWD BW 26.49.3)	each	419.33	367.94	357.67	357.67
7.49.4	32 mm PP-R Union (PWD BW 26.49.4)	each	660.86	529.31	518.00	518.00
7.49.5	37 mm PP-R Union (PWD BW 26.49.5)	each	1,069.92	755.42	736.92	736.92
7.49.6	50 mm PP-R Union (PWD BW 26.49.6)	each	1,223.06	859.22	842.78	842.78
7.50	Supplying, fitting and fixing of PP-R Gate-Valve meeting the perfomance & long-tem strength requirements of ASTM F 2389 in accordance with the manufacturer's specifications all complete accepted by the Engineer- in- charge.					
7.50.1	12 mm PP-R Gate-Valve (PWD BW 26.50.1)	each	429.61	507.72	499.50	499.50
7.50.2	19 mm PP-R Gate-Valve (PWD BW 26.50.2)	each	562.19	657.78	649.56	649.56
7.50.3	25 mm PP-R Gate-Valve (PWD BW 26.50.3)	each	612.56	751.31	743.08	743.08
7.50.4	32 mm PP-R Gate-Valve (PWD BW 26.50.4)	each	990.78	855.11	846.89	846.89
7.50.5	37 mm PP-R Gate-Valve (PWD BW 26.50.5)	each	1,054.50	962.00	953.78	953.78
7.50.6	50 mm PP-R Gate-Valve (PWD BW 26.50.6)	each	1,306.31	1,412.17	1,403.94	1,403.94
7.51	Supplying, fitting and fixing of G.I. Union with sealant etc. complete in all respects approved and accepted by the Engineer- in- charge.					
7.51.1	12 mm dia G.I. Union (PWD BW 26.51.1)	each	181.92	178.83	172.67	172.67
7.51.2	20 mm dia G.I. Union (PWD BW 26.51.2)	each	234.33	231.25	223.03	223.03
7.51.3	25 mm dia G.I. Union (PWD BW 26.51.3)	each	281.61	278.53	269.28	269.28
7.51.4	32 mm dia G.I. Union (PWD BW 26.51.4)	each	361.78	358.69	346.36	346.36
7.51.5	40 mm dia G.I. Union (PWD BW 26.51.5)	each	504.64	498.47	481.00	481.00
7.51.6	50 mm dia G.I. Union (PWD BW 26.51.6)	each	540.61	535.47	519.03	519.03
7.51.7	62 mm dia G.I. Union (PWD BW 26.51.7)	each	889.03	883.89	864.36	864.36
7.51.8	75 mm dia G.I. Union (PWD BW 26.51.8)	each	1,189.14	1,182.97	1,159.33	1,159.33
7.51.9	100 mm dia G.I. Union (PWD BW 26.51.9)	each	1,613.61	1,606.42	1,579.69	1,579.69
7.52	Supplying, fitting and fixing of best quality G.I. gate valve with sealant etc. complete approved and accepted by the Engineer- in- charge.					
7.52.1	12 mm brass gate valve (PWD BW 26.52.1)	each	471.75	468.67	462.50	462.50
7.52.2	20 mm brass gate valve (PWD BW 26.52.2)	each	650.58	647.50	639.28	639.28
7.52.3	25 mm brass gate valve (PWD BW 26.52.3)	each	766.72	763.64	754.39	754.39
7.52.4	32 mm brass gate valve (PWD BW 26.52.4)	each	1,075.06	1,070.94	1,059.64	1,059.64
7.52.5	40 mm brass gate valve (PWD BW 26.52.5)	each	1,254.92	1,249.78	1,231.28	1,231.28

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.52.6	50 mm brass gate valve (PWD BW 26.52.6)	each	1,927.08	1,922.97	1,905.50	1,905.50
7.52.7	62 mm brass gate valve (PWD BW 26.52.7)	each	3,890.14	3,885.00	3,865.47	3,865.47
7.52.8	75 mm brass gate valve (PWD BW 26.52.8)	each	5,281.75	5,274.56	5,251.94	5,251.94
7.52.9	100 mm brass gate valve (PWD BW 26.52.9)	each	8,309.58	8,302.39	8,276.69	8,276.69
7.53	Supplying, fitting and fixing of best quality G.I. globe valve, threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
7.53.1	12 mm dia brass globe valve (PWD BW 26.53.1)	each	522.11	520.06	512.86	512.86
7.53.2	20 mm dia brass globe valve (PWD BW 26.53.2)	each	606.39	603.31	595.08	595.08
7.53.3	25 mm dia brass globe valve (PWD BW 26.53.3)	each	874.64	871.56	862.31	862.31
7.53.4	32 mm dia brass globe valve (PWD BW 26.53.4)	each	1,201.47	1,197.36	1,185.03	1,185.03
7.53.5	40 mm dia brass globe valve (PWD BW 26.53.5)	each	1,437.86	1,431.69	1,414.22	1,414.22
7.53.6	50 mm dia brass globe valve (PWD BW 26.53.6)	each	2,192.25	2,187.11	2,170.67	2,170.67
7.53.7	62 mm dia brass globe valve (PWD BW 26.53.7)	each	4,583.89	4,578.75	4,559.22	4,559.22
7.53.8	75 mm dia brass globe valve (PWD BW 26.53.8)	each	5,824.42	5,817.22	5,794.61	5,794.61
7.53.9	100 mm dia brass globe valve (PWD BW 26.53.9)	each	9,192.44	9,185.25	9,159.56	9,159.56
7.54	Supplying, fitting and fixing of best quality G.I. check valve, threaded joint with sealant etc. complete approved and accepted by the Engineer- in- charge.					
7.54.1	12 mm brass check valve (PWD BW 26.54.1)	each	477.92	475.86	468.67	468.67
7.54.2	20 mm brass check valve (PWD BW 26.54.2)	each	574.53	571.44	564.25	564.25
7.54.3	25 mm brass check valve (PWD BW 26.54.3)	each	780.08	777.00	766.72	766.72
7.54.4	32 mm brass check valve (PWD BW 26.54.4)	each	1,037.03	1,032.92	1,021.61	1,021.61
7.54.5	40 mm brass check valve (PWD BW 26.54.5)	each	1,305.28	1,300.14	1,281.64	1,281.64
7.54.6	50 mm brass check valve (PWD BW 26.54.6)	each	1,908.58	1,903.44	1,887.00	1,887.00
7.54.7	62 mm brass check valve (PWD BW 26.54.7)	each	3,272.44	3,267.31	3,247.78	3,247.78
7.54.8	75 mm brass check valve (PWD BW 26.54.8)	each	4,449.25	4,442.06	4,419.44	4,419.44
7.54.9	100 mm brass check valve (PWD BW 26.54.9)	each	7,301.33	7,293.11	7,267.42	7,267.42
7.55	Supplying, fitting and fixing of best quality G.I. float valve, threaded joint Pit valve etc. complete approved and accepted by the Engineer- in- charge.					
7.55.1	12 mm brass float valve (PWD BW 26.55.1)	each	434.75	431.67	425.50	425.50
7.55.2	20 mm brass float valve (PWD BW 26.55.2)	each	575.56	573.50	565.28	565.28
7.55.3	25 mm brass float valve (PWD BW 26.55.3)	each	643.39	640.31	631.06	631.06
7.55.4	32 mm brass float valve (PWD BW 26.55.4)	each	1,052.44	1,048.33	1,037.03	1,037.03
7.55.5	40 mm brass float valve (PWD BW 26.55.5)	each	1,352.56	1,347.42	1,328.92	1,328.92
7.56	Supplying different inside dia best quality uPVC clean out / trap having specific gravity 1.35 -1.45 and other physical, chemical, themal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards, fitting and fixing in position etc. complete approved and accepted by the Engineer- in- charge.					
7.56.1	50 mm dia uPVC Y or T - Y Cleanout (PWD BW 26.56.1)	each	363.83	360.75	352.53	352.53

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.56.2	50 mm dia uPVC 'P' or 'S' trap (PWD BW 26.56.2)	each	712.25	709.17	695.81	695.81
7.56.3	100 mm dia uPVC Y or T - Y Cleanout (PWD BW 26.56.3)	each	689.64	685.53	671.14	671.14
7.56.4	100 mm dia uPVC 'P' or 'S' trap (PWD BW 26.56.4)	each	452.22	449.14	440.92	440.92
7.57	Suppy, fitting and fixing of Water pressure reducing valve to reduce static and flowing pressures in water distribution systems and it shall be a diaphragm/balanced piston type with integral stainless steel strainer and a built-in bypass to relieve pressure build-up downstream of the assembly. The valve shall be spring loaded to open and shall be diaphragm actuated to close under pressure conditions. The valve shall be suitable for supply pressure up to 400 psi and water temperatures from 33º to 180ºF. The valve's internal parts such as the cartridge assembly, strainer, diaphragm, and spring shall be accessible for inspection, repair or replacement without disconnecting the device from the pipeline. In addition, the valve shall have a clean-out feature to allow for removal of the strainer and seat disc without disturbing the pressure setting etc. all complete accepted by the Engineer- in- charge.					
7.57.01	12 mm dia water pressure reducing valve (MS) (PWD BW 26.57.1)	each	2,605.42	2,602.33	2,594.11	2,594.11
7.57.02	19 mm dia water pressure reducing valve (MS) (PWD BW 26.57.2)	each	3,450.25	3,447.17	3,438.94	3,438.94
7.57.03	25 mm dia water pressure reducing valve (MS) (PWD BW 26.57.3)	each	4,307.42	4,304.33	4,297.14	4,297.14
7.57.04	32 mm dia water pressure reducing valve (MS) (PWD BW 26.57.4)	each	6,451.36	6,448.28	6,441.08	6,441.08
7.57.05	38 mm dia water pressure reducing valve (MS) (PWD BW 26.57.5)	each	7,964.25	7,962.19	7,953.97	7,953.97
7.57.06	50 mm dia water pressure reducing valve (MS) (PWD BW 26.57.6)	each	11,747.50	11,745.44	11,737.22	11,737.22
7.57.07	62 mm dia water pressure reducing valve (MS) (PWD BW 26.57.7)	each	20,323.28	20,321.22	20,313.00	20,313.00
7.57.08	75 mm dia water pressure reducing valve (MS) (PWD BW 26.57.8)	each	29,150.86	29,148.81	29,140.58	29,140.58
7.57.09	19 mm dia water pressure reducing valve (Brass double net) (PWD BW 26.57.9)	each	4,151.19	4,148.11	4,139.89	4,139.89
7.57.10	25 mm dia water pressure reducing valve (Brass double net) (PWD BW 26.57.10)	each	5,339.31	5,336.22	5,328.00	5,328.00
7.57.11	38 mm dia water pressure reducing valve (Brass double net) (PWD BW 26.57.11)	each	9,789.58	9,786.50	9,778.28	9,778.28
7.57.12	50 mm dia water pressure reducing valve (Brass double net) (PWD BW 26.57.12)	each	13,498.83	13,495.75	13,487.53	13,487.53
7.58	Supplying, fitting and fixing of food graded plastic overhead water reservoir /tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge.					
7.58.1	1000 liter capacity (PWD BW 26.58.1)	each	12,331.28	12,293.25	12,142.17	12,142.17
7.58.2	1500 liter capacity (PWD BW 26.58.2)	each	16,934.69	16,896.67	16,744.56	16,744.56
7.58.3	2000 liter capacity (PWD BW 26.58.3)	each	21,537.08	21,499.06	21,347.97	21,347.97
7.58.4	3000 liter capacity (PWD BW 26.58.4)	each	30,742.89	30,705.89	30,553.78	30,553.78
7.58.5	5000 liter capacity (PWD BW 26.58.5)	each	49,155.53	49,117.50	48,966.42	48,966.42
7.59	Supply and installation of food-graded plastic internal mini water tank for the use in kitchen, bathroom and toilet for emergency storage and supply of water manufactured from liner low density polyethylene (ILDPE) roto-grade (ultra violet) stabilized which complies FDA (Federal Department of Agriculture, USA) regulations 21 CFR 1277. 152, having food grade quality where no recycled material is used carrying, lifting, fitting, fixing in position including supply of necessary hardware, consumables, fittings etc. all complete approved and accepted by the Engineer- in- charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.59.1	150 liter capacity (PWD BW 26.59.1)	each	4,247.81	4,234.44	4,184.08	4,184.08
7.59.2	300 liter capacity (PWD BW 26.59.2)	each	5,823.39	5,811.06	5,760.69	5,760.69
7.59.3	500 liter capacity (PWD BW 26.59.3)	each	6,012.50	6,000.17	5,949.81	5,949.81
7.60	Supply and installation of 400 gallon capacity ferro-cement water tank (HBRI made or equivalent) including supply of hardware, consumables, fittings etc. all complete approved and accepted by the Engineer- in- Charge. (PWD BW 26.6)	each	9,710.44	9,710.44	9,710.44	9,710.44
7.61	Supplying, fitting and fixing of 12 mm dia connection pipe approved and accepted by the Engineer- in- charge.					
7.61.1	450 mm long plastic flexible lead (connection) pipe (PWD BW 26.61.1)	each	115.11	114.08	111.00	111.00
7.61.2	600 mm long plastic flexible lead (connection) pipe (PWD BW 26.61.2)	each	127.44	127.44	123.33	123.33
7.61.3	450 mm long metal cover connection pipe (PWD BW 26.61.3)	each	193.22	192.19	189.11	189.11
7.61.4	600 mm long metal cover connection pipe (PWD BW 26.61.4)	each	228.17	228.17	224.06	224.06
7.62	Supplying, fitting, fixing of foreign made best quality Reverse Osmosis Water Purifier (Kent/Unilever/Vapor water purifier or equivalent brand) for purification of water by reverse osmosis system to have potable water conforming WHO standard and Bangladesh concentration parameters including installation charge, carriage, sundries etc. complete approved and accepted by the Engineer- in-charge.					
7.62.1	Water purification capacity: 10 L/hr, storage 6 litre; RO+MF (PWD BW 26.62.1)	each	19,093.03	19,093.03	19,093.03	19,093.03
7.62.2	Water purification capacity: 10~12 L/hr, digital display, storage minimum 9 litre, 7 stage purification; Ro+UV+MF (PWD BW 26.62.2)	each	33,431.56	33,431.56	33,431.56	33,431.56
7.62.3	Water purification capacity: 15 L/hr; storage 8 litre, RO+UF (PWD BW 26.62.3)	each	23,141.44	23,141.44	23,141.44	23,141.44
7.62.4	Water purification capacity: 20 L/hr, minimum storage 8 litre, 6 stage purification; RO+UV+MF (PWD BW 26.62.4)	each	30,216.67	30,216.67	30,216.67	30,216.67
7.62.5	Water purification capacity: 60 L/hr, at least 5 stage filtration RO purifier (PWD BW 26.62.5)	each	97,105.47	97,105.47	97,105.47	97,105.47
7.63	Supply, installation and commissioning of 50 liter capacity best quality 'Water dispenser' with container of approved brand/origin. (PWD BW 26.63)	each	4,728.81	4,728.81	4,728.81	4,728.81
7.64	Supply and Installation of Automatic Pressure and Flow Controller having Maximum flow rate-80 Liter/min (minimum), Starting Flow rate- 2-2.5 Liter/min, Maximum Switching current: 12 A. Maximum total pressure 10 Bar and operating pressure should be 1-3.5 Bar. Supported Motor voltage 230 V ± 5% 50 Hz AC supply. Having pressure gauge of minimum 40mm dia (0-12 Bar) and inlet and outlet size shall be 1 inch minimum and inline position threaded and protection: IP-65 (minimum). Manufactured in EU/G7 countries as per sample accepted / approved by the Engineer-in-charge.(For Centrifugal Pump motor upto 2 HP)					
7.64.1	Maximum flow rate-80 Liter/min (PWD BW 26.64.1)	each	11,759.83	11,753.67	11,697.14	11,697.14
7.64.2	Maximum flow rate-200 Liter/min (PWD BW 26.64.2)	each	17,938.83	17,932.67	17,876.14	17,876.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.65	Supplying, fitting and installation of automatic hand drier of high speed, energy efficient, rapid drying, automatic sensor, adjustable speed and sound control, adjustable heat control, electric hand dryer; surface mounted or semi - recessed which can eliminate over 99% of airborne bacteria and particles as small as 0.3 microns with the removable Super Filter System and it shall be powered by 220v AC supply/ batteries and shall operate automatically from IR sensor that shall activate it when hands are placed in sensor zone etc. all complete accepted by the Engineer- in- charge.					
7.65.1	Automatic Hand drier Local (Standard quality) (PWD BW 26.65.1)	each	5,965.22	5,957.00	5,945.69	5,945.69
7.65.2	Automatic Hand drier Local (Super quality) (PWD BW 26.65.2)	each	7,226.31	7,219.11	7,206.78	7,206.78
7.65.3	Automatic Hand drier Local (Suprior quality) (PWD BW 26.65.3)	each	9,117.42	9,110.22	9,098.92	9,098.92
7.65.4	Automatic Hand drier (Special quality) (PWD BW 26.65.4)	each	14,414.58	14,407.39	14,396.08	14,396.08
7.66	Manufacturing, supplying, fitting & fixing of adjustable hanger made of 38 mm x 38 mm x 6 mm m.s. angle with 600 mm long 12 mm dia nut-bolt for having pvc pipe from ceiling as per direction of the Engineer-in-charge. (PWD BW 26.66)	m	893.14	889.03	858.19	858.19
7.67	Groove cutting in brick work and R.C.C work, including cost for concealing of water distribution pipe work (12 mm and 20 mm dia) in brick wall by cutting groove in wall, lintel, beam etc. by any means carefully without damaging the structure and filling the grooves with C.C (4:2:1) after laying of pipe including cost of scaffolding, finishing, curing etc. all complete approved and accepted by the Engineer- in-charge.					
7.67.1	Groove size 40 mm x 40 mm (For laying 12 mm to 20 mm dia pipes) (PWD BW 26.67.1)	m	334.03	327.86	306.28	306.28
7.67.2	Groove size 75 mm x 75 mm (For 25 mm to 40 mm dia pipes) (PWD BW 26.67.2)	m	549.86	540.61	508.75	508.75
7.68	Punching or cutting hole of any diameter in RCC floor for sanitary works. (PWD BW 26.68)	each	207.61	203.50	190.14	190.14
7.69	Supply, fitting & fixing of 600 mm dia C.I. man hole cover etc. all complete approved by the Engineer- in- charge. (PWD BW 26.69)	each	1,869.53	1,867.47	1,860.28	1,860.28
7.70	Construction of masonry inspection pit with 250 mm thick brick work in cement mortar (1:4) including necessary earth work, side filling and one layer brick flat soling, 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 700 mm approved and accepted by the Engineer- in- charge.					
7.70.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe. (PWD BW 26.70.1)	each	4,899.42	4,877.83	4,676.39	4,676.39
7.70.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe. (PWD BW 26.70.2)	each	7,260.22	7,229.39	6,931.33	6,931.33
7.70.3	Clear 600 x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 400 mm PVC pipe. (PWD BW 26.70.3)	each	10,132.86	10,091.75	9,676.53	9,676.53
7.70.4	Master-pit of Size: Clear 600 mm x 500 mm and average 750 mm depth for Septic tank. (PWD BW 26.70.4)	each	4,813.08	4,794.58	4,612.67	4,612.67
7.71	Construction and placement M.H. cover with locking/unlocking arrangement including necessary earth work, side filling, shuttering, curing, cement plaster (1:4) with neat finishing on edges and top etc. all complete approved and accepted by the Engineer- in- charge.					
7.71.1	900 mm x 900 mm x 75 mm R.C.C. pit cover (PWD BW 26.71.1)	each	1,398.81	1,395.72	1,373.11	1,373.11
7.71.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover (PWD BW 26.71.2)	each	1,616.69	1,612.58	1,586.89	1,587.92

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.71.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover (PWD BW 26.71.3)	each	1,854.11	1,850.00	1,821.22	1,822.25
7.72	Construction and placing of R.C.C inspection pit cover (slab) with supplying and provisions for placing, fitting, fixing 450 mm dia C.I. man-hole cover with locking/un-locking arrangement including concrete (1:2:4) with approx. 1% re-enforcement, necessary earth cutting, or cleaning, side filling, curing etc. with minimum 12 mm cement plaster (1:4) and neat cement finishing on edges and top all complete and accepted by the Engineer- in- charge.					
7.72.1	950 mm x 950 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover. (PWD BW 26.72.1)	each	2,314.56	2,311.47	2,291.94	2,291.94
7.72.2	1025 mm x 1025 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover. (PWD BW 26.72.2)	each	2,530.39	2,527.31	2,504.69	2,505.72
7.72.3	1100 mm x 1100 mm x 75 mm R.C.C. pit cover with 450 mm dia C.I. manhole cover. (PWD BW 26.72.3)	each	2,769.86	2,765.75	2,740.06	2,740.06
7.73	Construction of masonry inspection pits up to a depth of 700 mm with 250 mm thick brick work in cement mortar (1:4) including 100 mm thick R.C.C. top slab (1:2:4) with 1% reinforcement, man-hole cover with locking arrangement including necessary earth work, side filling and one brick flat soling. 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete approved and accepted by the Engineer- in- charge.					
7.73.1	Clear 450 mm x 450 mm and depth 450 mm to 600 mm, average 525 mm for single 150 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover. (PWD BW 26.73.1)	each	7,213.97	7,189.31	6,968.33	6,968.33
7.73.2	Clear 525 mm x 525 mm and depth 675 mm to 825 mm, average 750 mm for single 225 mm dia R.C.C. pipes and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover. (PWD BW 26.73.2)	each	9,790.61	9,756.69	9,436.03	9,437.06
7.73.3	Clear 600 mm x 600 mm and depth 750 mm to 900 mm, average 825 mm for single 300 mm dia R.C.C. pipes and 375 mm and 400 mm PVC pipe with pit cover and 450 mm dia C.I. man-hole cover. (PWD BW 26.73.3)	each	12,902.72	12,857.50	12,416.58	12,416.58
7.74	Construction of septic tank of different sizes with walls of brick work in cement mortar (1:6) having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 450 mm height at top including supplying, fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges. etc. all complete as per type plan approved and accepted by the Engineer-in-charge (Rate is including cost of reinforcement and its fabrication, binding and placing).					
7.74.1	For 200 users (PWD BW 26.74.1)	each	339,769.97	338,621.94	330,007.11	330,068.78
7.74.2	For 100 users (PWD BW 26.74.2)	each	268,156.47	267,274.64	260,185.03	260,229.22
7.74.3	For 50 users (PWD BW 26.74.3)	each	168,039.61	167,500.03	163,316.97	163,346.78
7.74.4	For 30 users (PWD BW 26.74.4)	each	123,435.08	123,043.50	119,889.25	119,908.78
7.74.5	For 20 users (PWD BW 26.74.5)	each	115,506.81	115,139.89	112,179.89	112,198.39
7.74.6	For 10 users (PWD BW 26.74.6)	each	67,965.92	67,763.44	66,187.86	66,200.19

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.75	Construction of non electric Eco STP of different sizes (as per detail drawing attached in annexure) with 250 mm walls of brick work in cement mortar (1:4) having a brick flat soling and 125 mm thick reinforced cement concrete flooring (1:2:4) with 125 mm thick walls (1:4) in partition and flush pointing (1:2) on inside wall surface and 12 mm thick cement plaster (1:4) with N.C.F. on floor and slab surface including supplying, fitting and fixing of upvc pipes & Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:2:4) top slab, including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling, dressing, inside cleaning, cow dung or old septic tank liquied for charging/start up including the cost of all materials, operations and incidental charges. etc. all complete as per type plan approved and accepted by the Engineer-in-charge (Rate is including cost of reinforcement and its fabrication, binding and placing).					
7.75.1	500 users (PWD BW 26.75.1)	each	702,642.33	701,703.97	668,089.47	671,516.08
7.75.2	300 users (PWD BW 26.75.2)	each	553,804.69	552,913.61	526,881.03	529,334.33
7.76	Construction of soak well of different sizes (as per detail drawing attached in annexure) (medium and large sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:6) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa including supplying and fabricating M.S. rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the (Rate is including cost of reinforcement and its fabrication, binding and placing) Engineer- in-charge.					
7.76.1	200 users (PWD BW 26.76.1)	each	157,191.42	156,777.22	150,074.06	150,374.17
7.76.2	100 users (PWD BW 26.76.2)	each	141,328.69	140,952.53	134,956.47	135,217.53
7.76.3	50 users (PWD BW 26.76.3)	each	126,577.00	126,239.89	120,894.42	121,123.61

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.77	Purification of supplied raw water using Mobile Water Desalination Plant which includes mobilization, demobilization, necessary maintenance of all associated electromechanical machines, tank, membrane, micron filter, sand tube, gravel tube, manganese tube, activated carbon tube, resin tube, anti-scalant, salt tube and any other related instruments as and when required. This rate also includes cost of energy, laboratory testing to conform following specification and as per the direction of Engineer in charge.Water in outlet must conform the following indicators and levels: A. 1) pH- 6.5 to 8.5, 2) Iron as Fe ≤0.3 mg/l, 3) Arsenic≤0.05mg/l, 4) Total Hardness as CaCO3 - 5 - 25 mg/l, 5) Chloride as CL- 500 mg/l, 6) Sulfate as SO42-≤2000mg/l, 7) Alkali equivalent sodium oxide ≤ 1500 mg/l, 8) Sugars ≤100mg/l, 9)Phosphates as P2O5 ≤100mg/l, 10)Nitrates as NO3-≤500mg/, 11) Lead asPb+ ≤100mg/, 12) Zinc as Zn2+ ≤100 mg/l, 13) Salinity≤1000ppm/l,B. Setting time and strength test: The initial setting time obtained on paste samples made with the water shall not be less than 1 hr and not differ by more than 25% from the initial setting time obtained on specimens made with distilled or de-ionized water.The final setting time obtained on paste samples made with the water shall not be less than 10 hr and not differ by more than 25% from the final setting time obtained on specimens made with distilled or de-ionized water.The mean compressive strength at 7 days and 28 days of the concrete or mortar specimens prepared with water shall be at least 90% of the mean compressive strength of corresponding specimens prepared with distilled or de-ionized water.C. To determine the value of aforementioned indicators, test shall be carried out following ISO 29581-1, ISO 7890-1, BDS ISO 12439:2011 (ISO 12439:2010). D. Supplier shall be responsible for all kind of maintenance and providing spare parts untill the completion of service.E. The authority or engineer in charge reserves the right to select the materials/goods/ machineries to be used in the plant					
7.77.1	Consumption Quantity: 50,000 to 100,000 liter (PWD BW 26.77.1)	liter	2.52	2.52	2.52	2.52
7.77.2	Consumption Quantity: 100,000 to 500,000 liter (PWD BW 26.77.2)	liter	2.21	2.21	2.21	2.21
7.77.3	Consumption Quantity: 500,000 to 10,000,000 liter (PWD BW 26.77.3)	liter	1.89	1.89	1.89	1.89
7.77.4	Consumption Quantity: 10,00,000 to 50,000,000 liter (PWD BW 26.77.4)	liter	1.58	1.58	1.58	1.58
7.77.5	Consumption Quantity: 50,000,000 liter and above (PWD BW 26.77.5)	liter	1.26	1.26	1.26	1.26
7.78	Pipe line installation: Installation of 50 psi, API, 5L, Grade-B, ERW Natural pipe line for supplying Titas Gas including, supplying, fitting, fixing and laying different sizes M.S. pipes with necessary tape and primer including cutting trenches (450 mm x 910 mm) in all kinds of soil, cleaning, cutting, applying coal-tar, wrapping the pipes, marking the pipeline with 200mm X 200mm demarcation plate (C.C./ M.S. plate) @ 15m interval and back filling the trenches, excavating earth including. leveling, dressing and removing excess earth in all respect as per specification of Titas Gas T and D Co. Ltd. and accepted by the Engineer-in-charge. [Rate is excluding the cost of welding and back filling with sand at the bottom by 300 mm in thickness (compacted)](Pipes manufactured by National Tubes Limited under Steel & Engineeing Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)					
7.78.1	100 mm ND (114.30 mm O.D) M.S pipe, weight of min 14.4 kg/m, standard test pressure 176 kg/ m2, wall thickness of min 5.4 mm (PWD BW 28.1.1)	m	4,249.86	4,243.69	4,227.25	4,227.25
7.78.2	75 mm N.D (88.90 mm O.D) M.S pipe, weight of min 10.1 kg/m, standard test pressure 176 kg/ m2, wall thickness of min 4.85 mm (PWD BW 28.1.2)	m	2,421.44	2,416.31	2,398.83	2,398.83

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.78.3	50 mm N.D. (60.30 mm O.D) M.S pipe, weight of min 6.17 kg/m, standard test pressure 176 kg/ m2, wall thickness of min 4.47 mm (PWD BW 28.1.3)	m	1,461.50	1,455.33	1,438.89	1,438.89
7.78.4	25 mm N.D. (33.80 mm O.D) M.S pipe weight of min 3.84 kg/m, standard test pressure 50 kg/ m2, wall thickness of min 4.05 mm (PWD BW 28.1.4)	m	872.58	866.42	849.97	849.97
7.78.5	20 mm N.D. (27.20 mm O.D) M.S pipe weight of min 1.90 kg/m, standard test pressure 50 kg/ m2, wall thickness of min 3.25 mm (PWD BW 28.1.5)	m	685.53	679.36	661.89	661.89
7.79	Providing Butt welded joints with pipes to Tees, Elbows, Saddles, end caps etc above or below ground including. cutting and V-leveling in each end of the pipe, grinding by machine etc. complete as per specification of Titas Gas T and D C Ltd. and accepted by the Engineer-in-charge.					
7.79.1	75 mm N.D (88.90 mm O.D)-6.95 mm (PWD BW 28.2.1)	each	287.78	287.78	287.78	287.78
7.79.2	50 mm N.D (60.30 mm O.D)-5.15 mm (PWD BW 28.2.2)	each	246.67	246.67	246.67	246.67
7.79.3	25.mm N.D (33.40 mm O.D)-4.2mm (PWD BW 28.2.3)	each	192.19	192.19	192.19	192.19
7.79.4	20 mm N.D (26.70 mm O.D)-3.35mm (PWD BW 28.2.4)	each	164.44	164.44	164.44	164.44
7.80	Supplying, fitting and fixing the following materials including carriage to the work site from Titas Gas Store as per specification of Titas Gas (T and D) Co. Ltd. and accepted by the Engineer-in-charge. (Rate is excluding the cost of welding)					
7.80.01	50 mm x 50 mm x 50 mm (N.D) equal tee (PWD BW 28.3.1)	each	323.75	322.72	322.72	322.72
7.80.02	50 mm x 50 mm x 25 mm (N.D) reducing tee (PWD BW 28.3.2)	each	527.25	527.25	526.22	526.22
7.80.03	25 mm x 25 mm x 25 mm (N.D) equal tee (PWD BW 28.3.3)	each	187.06	186.03	185.00	185.00
7.80.04	50 mm x 90º elbow (PWD BW 28.3.4)	each	262.08	262.08	261.06	261.06
7.80.05	25 mm x 90º elbow (PWD BW 28.3.5)	each	220.97	220.97	219.94	219.94
7.80.06	50 mm x 25 mm 45º elbow (PWD BW 28.3.6)	each	120.25	120.25	119.22	119.22
7.80.07	50 mm x 25 mm reducer. (PWD BW 28.3.7)	each	138.75	138.75	137.72	137.72
7.80.08	20 mm plug, socket (PWD BW 28.3.8)	each	543.69	542.67	541.64	541.64
7.80.09	50mm X 20 mm saddle (PWD BW 28.3.9)	each	447.08	447.08	446.06	446.06
7.80.10	50 mm dia end cap (PWD BW 28.3.10)	each	106.89	106.89	105.86	105.86
7.80.11	25 mm dia end cap (PWD BW 28.3.11)	each	116.14	116.14	115.11	115.11
7.81	Supplying, welding, fitting and fixing of different size valve tee/ service tee to connect the pipe line with the Titas Gas Main pipe line etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					
7.81.1	50 mm x 50 mm Valve Tee (50 mm and above 50 mm low pressure line) Sch 40 (PWD BW 28.4.1)	each	17,265.64	17,201.92	16,947.03	16,947.03
7.81.2	50 mm x 25 mm Valve Tee (PWD BW 28.4.2)	each	3,156.31	3,108.00	2,915.81	2,915.81
7.81.3	25 mm x 25 mm Service Tee (PWD BW 28.4.3)	each	7,169.78	7,128.67	6,964.22	6,964.22
7.81.4	50 mm x 25 mm Service Tee (PWD BW 28.4.4)	each	13,996.28	13,941.81	13,721.86	13,721.86
7.82	Supplying, fitting and fixing in position different dia I/F (Insulated Flange) etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge. 50 mm N.D. (60.30 mm O.D) Insulation Flange. (PWD BW 28.5)	each	7,389.72	7,328.06	7,080.36	7,080.36

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.83	Construction of 1520 mm x 1520 mm x 1370 mm (depth) water-tight valve pit, enclosed by 250 mm thick brick wall in 1:6, plastered on each face in 1:4 with net cement finishing, having a 75 mm thick C.C (1:3:6) bed upon a layer of brick flat soling, over laid by 38 mm thick patent stone flooring including standard M.S. sheet valve pit cover as per drawing and specification of Titas Gas T and D Co. Ltd. etc. all complete in all respect and accepted by the Engineer-in-charge. (PWD BW 28.6)	each	128,634.61	128,348.89	126,222.42	126,222.42
7.84	Supplying, fitting and fixing of ball valve class 150 RF including supplying of 2 Nos. flange along with necessary nuts and bolts, welding the flange etc. all complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					
7.84.1	50 mm ball valve class 150 RF. 2" dia (PWD BW 28.7.1)	each	19,232.81	19,133.11	18,735.36	18,735.36
7.84.2	25 mm ball valve class 150 RF.1" dia (PWD BW 28.7.2)	each	14,881.19	14,781.50	14,383.75	14,383.75
7.85	Riser Pipe line installation: Installation of 2 psi, API, 5L, Grade-B, ERW Natural pipe line for supplying Titas Gas including, supplying, fitting, fixing and laying different sizes M.S. pipes with necessary tape and painting in all respect as per specification of Titas Gas T and D Co. Ltd. and accepted by the Engineer-in-charge. [Rate is excluding the cost of welding and tee, elbow socket etc fittings](Pipes manufactured by National Tubes Limited under Steel & Engineeing Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)					
7.85.1	12 mm N.D. with wall thickness 2 mm (PWD BW 28.8.1)	each	327.86	326.83	320.67	320.67
7.85.2	20 mm N.D.with wall thickness 2.35 mm (PWD BW 28.8.2)	each	397.75	395.69	389.53	389.53
7.86	Supplying, fitting and fixing in position different dia one-way brass stop cock (best quality and heavy type) etc. complete in all respect as per specification of Titas Gas T and D Co. Ltd. approved and accepted by the Engineer-in-charge.					
7.86.1	12 mm x 6 mm N.D. (PWD BW 28.9.1)	each	415.22	414.19	412.14	412.14
7.86.2	20 mm x 20 mm N.D. (PWD BW 28.9.2)	each	749.25	748.22	743.08	743.08
7.87	Cutting of permanent pucca (rigid/flexible) road and mending good the damages etc. all complete in all respect and accepted by the Engineer-in-charge.					
7.87.1	Bituminous Road (PWD BW 28.10.1)	sqm	1,393.67	1,367.97	1,266.22	1,266.22
7.87.2	R.C.C. Road (PWD BW 28.10.2)	sqm	2,083.31	2,046.31	1,894.19	1,894.19
7.88	Testing and purging of the house line properly as per specifications Titas Gas T and D Co. Ltd. and accepted by the Engineer-in-charge. (PWD BW 28.11)	m	29.81	29.81	29.81	29.81
7.89	Supplying and installation the complete LP Gas Reticulated System for highrise buildings (Upto 40 unit 20 storied) with Storage facility (45 KG POL Valve cylinders/Bulk Tank) with isolation and safety valve, pressure gauges, LPG transfer hose, Seamless MS pipe network, LPG Regulator (1st Stage and 2nd Stage), Household LP Gas meter, Safety fittings & accessories, system design, documentation, supervision and commissioning etc. (as per standard of department of Explosive and NFPA-58) all complete and accepted by engineer in charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
7.89.1	Cylinder heading line for multistoried Building with 40 unit apartment, 2X10 Nos cylinder Heading line, 45 Kg LP Gas Cylinder Bank Vapor Off Take (VOT) System with MS Seamless SCH 40 pipes. (min. dia 25 mm), Flanze Type MS 150 class ball valve, Pressure Gauge (100 mm dia) liquid type (range: 0-20 Bar), Bleed Valve, Safety Relief Valve (LPG Type, Relief at 14.6 Bar)), LP Gas pigtal, Ball valve and necessary fittings suitable for LP Gas as per standard of department of Explosive and NFPA-58), Supply, Installation of Medium pressure main distribution pipeline, MS Seamless (Sch-40) 50 mm dia pipe upto 100 meter length, Flanze Type MS Valve 150 Class Dia 50 mm, Sch 40 MS 50 mm TEE , Sch 40 MS 50 mm Elbow, 150 Class 50 mm MS Flanze , Painting, Pipe support with MS Clamp, First Stage Regulator ; Brand: REGO / FISHER / CAVAGNA or similar from USA or EU, MS Seamless SCH 40 pipes, Flanze Type MS 150 class ball valve, Pressure Gauge (100 mm dia) liquid type (range: 0-20 Bar), Bleed Valve, Safety Relief Valve (LPG Type, Relief at 14.6 Bar) etc. as per requirement all complete, approved and accepted by the Engineer-in-charge. (All the welding joints must be TIG welded)(Rate is excluding the cost of shed, perimeter fencing and RCC floor). (PWD BW 28.12.1)	set	1,191,749.44	1,191,749.44	1,191,749.44	1,191,749.44
7.89.2	Reduction cost per unit below 40 unit connection for all necessary arrangement including heading line. (PWD BW 28.12.2)	each	10,277.78	10,277.78	10,277.78	10,277.78
7.89.3	Additional cost per apartment upto 100 apartment for all necessary arrangement including heading line. (PWD BW 28.12.3)	each	9,458.64	9,458.64	9,458.64	9,458.64
7.89.4	Supplying and installation of 45 Kg LP Gas empty cylinder cylinder [Water capacity: 108 litre; design code: DOT, Service pressure 17 Kgs/cm2, test pressure 34 Kgs/cm2, Steel grade SG295 or equiv.], certified by Department of Explosives. (PWD BW 28.12.4)	each	7,566.50	7,566.50	7,566.50	7,566.50
7.90	Supplying and instalation of LP Gas Prepaid meter with smart recharging system. (Smart card for recharge gas, Meter connection, Second Stage Regulator, Gas meter header with individual valves (MS 150 class) in both ends of meter and other fittings etc. all complete and accepted by the Engineer-in-charge. (PWD BW 28.13)	each	25,222.69	25,222.69	25,222.69	25,222.69

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 8 : Electrical Works						
Section-01: Main and Sub-Main Switches						
8.01	THREE PHASE DISTRIBUTION BOAITD (TPDB) Providing and fixing three phase distribution board (TPDB) [concealed /surface] having the following components and specifications: lFig:4 3] l. Steel board : Approximate size 36"x30"x6"MS sheet:l8SWC with hinged type door and locking arrangement dulypainted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) etc. In front side there will be tempered thick fiberglass of minimum 8 mm thickness will rubber gaskets to observe the insidearrangement. 2. Copper bar : size l2"xl"x6 mm(4 No's) and 6"xl"x5mm(l No) mounted on insulator at both ends. Capacity: 200-300A 3. 1 no. TPMCCB (main control) and following nos. TPMCCB for feeders.TPMCCB's are Manufactured / Assembled and tested in accordance withlEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard Minimum breaking capacity 10-16 l(A with thermal over current and instantaneous electromagnetic short circuit release 4. Loop Cable: From phase bar to TPMCCB (circuit & power) Cable Size: As required compatible will circuit breaker with TPMCCBs accepted / approved by the Engineer-in-charge[PWD-4.3]					
8.01.1	100A TPDB Incoming 1x100A TPMCCB (10 KA)Outgoing: 6xl0-20A TPMCCB (10 KA)[PWD-4.3.1]	each	66,069.67	66,068.64	66,061.44	66,061.44
8.01.2	150A TPDB Incoming 1x150A TPMCCB (16 KA)Outgoing: 8xl0-30A TPMCCB (10 KA)[PWD-4.3.2]	each	86,248.03	86,247.00	86,239.81	86,239.81
8.01.3	200A TPDB Incoming 1 x200A TPMCCB (l6 KA)Outgoing: l0xl0-30A TPMCCB (10 KA)[PWD-4.3.3]	each	108,948.56	108,947.53	108,940.33	108,940.33
Section-02: Distribution/Sub-Distribution Board						
8.02.1	SINCLE PHASE DISTRIBUTION BOARD (SPDB) Providing and fixing single phase distribution board (SPDB) [concealed / surface having the following components and specifications: [Fig : 4.2] 1. Steel board: Approximate size: 20"x l5"x4" MS sheet : l8SWG with hinged type door and locking arrangement duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) etc. In front side there will be tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets to observe the insidearrangeme. 2. Copper bar: Approximate size: l0"x l"x 3mm (2 nos) and 6"x 1" x 3mm, (1 no) mounted on insulator at both ends. capacity: 60- 100A . 3. 1 No. DPMCB (main control) and following nos. SPMCB, DPMCB and SPMCB Manufactured / Assembled and tested in accordance with relevant BDS IEC 60898-t:2016 and IEC / VDE / NEMA / BS / JIS standard. Minimum breaking capacity 6/10 KA with thermal over current and instantaneous electromagnetic short circuit release. 4. Loop Cable [from phase.bar to SPMCB (circuit & power)] Size: lC- l x2.5 sq mm (BYM) with DPMCB and SPMCB accepted /approved by the Engineer-in-charge.[PWD-4.2]					
8.02.1.1	6-way SPDBIncoming: lx40A DPMCB (6 KA)Outgoing: 6x5-l0A SPMCB (6 KA)[PWD-4.2.1]	each	13,185.36	13,184.33	13,177.14	13,177.14
8.02.1.2	8-way SPDBIncoming: 1x50A DPMCB (10 KA)Outgoing: 8x5-10A SPMCB (10 KA)[PWD-4.2.2]	each	14,572.86	14,570.81	14,565.67	14,565.67
8.02.1.3	10-way SPDBIncoming: 1x60A/63A DPMCB (10 KA)Outgoing: 10x5-10A SPMCB (10 KA)[PWD-4.2.3]	each	17,031.31	17,030.28	17,025.14	17,025.14

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.02.2	Supplying and fixing of almirah type 18 SWG metal board of depth 228mm (6") duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) having built in push type / suitable locking arrangement including metal bridges of suitable size for fixing of all electrical control devices complete with suitable anchoring arrangement in wall / column and keeping provision for cable inlets and exits as required (only front surface of the board will be considered for measurement) accepted/approved by the Engineer-in-charge.With water tight arrangement.[PWD-4.9.2]	sqm	18,040.58	18,039.56	18,034.42	18,034.42
Section-03: Energy Meter						
8.03	ENERGY METER					
8.03.1	Providing & fixing 230V, 50Hz, single phase, 10 – 40 Amps electric energy meter (KWH meter) steel body with glass cover on prepared board inconformity with BDS IEC standard accepted/approved by engineer in charge.[PWD-21.22.1]	each	1,727.69	1,727.69	1,725.64	1,725.64
8.03.2	Providing & fixing 230 V, 50 Hz, single phase 10-40 Ampere electronics digital energy meter (KWH meter) steel body with glass cover on prepared board inconformity with BDS IEC standard. [PWD-21.22.2	each	2,232.33	2,232.33	2,229.25	2,229.25
8.03.3	Providing & fixing 415V + 10%, 50Hz three phase electronics digital energy meter (KWH meter) steel body with glass cover on prepared board inconformity with BDS IEC standard. [PWD-21.22.3					
8.03.3.1	10-100 Amps (Single Tariff) [PWD-21.22.3.1]	each	6,772.03	6,772.03	6,769.97	6,769.97
8.03.3.2	10-100 Amps (Double Tariff) [PWD-21.22.3.2]	each	8,664.17	8,664.17	8,661.08	8,661.08
Section-04: Circuit Breaker						
8.04.1	Circuit Breaker (SPMCB) Providing & fixing on a prepared board 250 volt grade following single pole miniature circuit breaker (SPMCBs) having minimum breaking capacity 6-KA / I0 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard.SPMCBs accepted / approved by the Engineer-in-charge.[PWD-4.4.1]					
8.04.1.1	5 – 40 Amps (minimum 6 KA) MCB[PWD-4.4.1.1]	each	801.67	801.67	800.64	800.64
8.04.1.2	60/63 Amps (minimum 10 KA) MCB[PWD-4.4.1.2]	each	990.78	990.78	989.75	989.75
8.04.2	TPMCB Providing & fixing on a prepared board 500 volt grade following Triple pole miniature circuit Breaker (TPMCB) having minimum breaking capacity 6-KA/ 10 KA with thermal over-current and instantaneous electromagnetic short circuit release provision as per BDS IEC and IEC / VDE / NEMA / BS / JIS standard.TPMCBs accepted / approved by the Engineer-in-charge.wd-[P4.5.4]					
8.04.2.1	5 - 60 Amps. [PWD-4.5.1.1]	each	4,141.94	4,141.94	4,139.89	4,139.89
8.04.3	TPMCCB Providing & fixing on a prepared board 500 volt grade following triple-pole molded case circuit breaker (TPMCCB) with thermal over-current and instantaneous electromagnetic short circuit release provision, Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standard.TPMCCBs accepted / approved by the Engineer-in-charge. [PWD-4.6.1]					
8.04.3.1	15 - 100 Amps. (Minimum 10-KA) [PWD-4.6.1]	each	7,673.39	7,673.39	7,671.33	7,671.33
8.04.3.2	120 - 200 Amps. (Minimum 16-KA) [PWD-4.6.2]	each	9,060.89	9,060.89	9,057.81	9,057.81

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-05: Electrical Wiring and Cable						
8.05.01	CANNEL POINT WTRING (BYM)(WITHOUT SWITCH) Surface channel wiring for the following point looping at the switch board with earth Terminal with 1C-2x1.5 sqmm PVC insulated and sheathed stranded cable (BYM) and IC- lx1.5 sqmm PVC insulated ECC(BYA) (Green / Yellow bi-colour) including circuit wiring(From SDB to Switch Board) with IC-2x25 sqmrn PVC insulated and sheathed stranded cable (BYM) & IC-2x2 5 sqmm PVC insulated ECC(BYA) Green & Yellow bi-colour through minimum 1 mm thick PVC channel complete with l8 SWG GP sheet / PVC switch board (preferably concealed) with3mm thick ebonite sheet cover, circular box, without Switch, fixing materials, otheraccessories elc. as required and mending the damages good. All electrical contactsshall be of brass /copper connected through connector or soldering (no twistingshall be allowed) and cables shall be manufactured ans tested according to IEC / BS/VDE standard along with relevant BDS standard as per detailed specificationmentioned Annexure-l. The work shall be carried out as per direction & approvalof the Engineer In Charge.[PWD-1.1]					
8.05.01.1	Light point/Exhaust / Wall bracket fan point [PWD-1.1.2.1]	point	1,127.47	1,122.33	1,101.78	1,101.78
8.05.01.2	Fan point [PWD-1.1.2.2]	point	1,127.47	1,122.33	1,101.78	1,101.78
8.05.01.3	Call bell point with gang bell push [PWD-1.1.2.3]	point	1,159.33	1,153.17	1,133.64	1,133.64
8.05.02	SUFACE CONDUIT POINT WIRING (BYA) (WITHOUT SWITCH) Surface conduit wiring for following point looping at the switch board with earth terminal with IC-2x1.5 sqmm PVC insulated cable (BYA) & IC-2x1.5 sqmm PVC insulated ECC (BYA) (Green / Yellow bicolour) including circuit wiring (From SDB to Switch Board) with IC-2x2.5 sqmm PVC insulated cable (BYA) & IC- 2x2.5 sqmm PVC insulated ECC (BYA) Green / Yellow bi-colour through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm inner dia with 1.5mm wall thickness complete with l8 SWG GP sheet / PVC switch board and pull box (preferably concealed) with 3 mm thick ebonite sheet cover, without switch, fixing materials. Other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and Tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure- I . The work shall be carried out as per direction & approval of the Engineer in Charge.[PWD-1.3]					
8.05.02.1	Light point/Exhaust/Wall bracket fan point [PWD-1.32.1]	point	1,123.36	1,119.25	1,096.64	1,096.64
8.05.02.2	Fan point [PWD-1.3.2.2]	point	1,123.36	1,119.25	1,096.64	1,096.64
8.05.02.3	Call bell point with bell push [PWD-1.3.2.3]	point	1,197.36	1,192.22	1,170.64	1,170.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.03	CONCEALED CONDUIT POINT WIRING (BYA)(WITHOUT SWITCH) Concealed conduit wiring for following point looping at the switch board with earth terminal with IC-2x1.5 sqmm PVC insulated cable (BYA) & IC-2x1.5 sqmm PVC insulated ECC(BYA) Green / Yellow bi-colour including circuit wiring (From SDB to Switchboard) with IC-2x2.5 sqmm PVC insulated cable (BYA) & IC-2x2.5 sqmm PVC insulated ECC (BYA) (Creen / Yellow bi-colour) through PVC conduit (one conduit from switch board to common point on ceiling is considered to draw 3 pair of cable) of reputed manufacturer of minimum 25 mm dia & 1.7 mm wall thickness complete with l8 SWG GP sheet / PVC switch board pull box with 3mm thick ebonite sheet cover, fixing materials etc.(without switch) as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standard along with relevant BDS standard as per detailed specification mentioned in Annexure- I. The work shall be carried out as per direction & approval of the Engineer In Charge.[PWD-1.7]					
8.05.03.1	Light point/Exhaust or Wall bracket fan point [PWD-1.7.2.1]	point	1,192.22	1,187.08	1,161.39	1,161.39
8.05.03.2	Fan point [PWD-1.7.2.2]	point	1,192.22	1,187.08	1,161.39	1,161.39
8.05.03.3	Call bell point with bell push [PWD-1.7.2.3]	point	1,266.22	1,261.08	1,234.36	1,234.36
8.05.04	SURFACE CONDUIT POINT WIRING (BYM) (WITHOUT SWITCH) Surface conduit wiring with the following PVC insulated and sheathed cable (BYM) & Green / Yellow bi-colour PVC insulated ECC wire (BYA) through PVC conduit of reputed manufacturer complete with 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevantBDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge.[PWD-1.10.2]					
8.05.04.1	1C-2x1.5 sqmm (BYM) cable with 1.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	197.33	196.31	194.25	194.25
8.05.04.2	1C-2x2.5sqmm (BYM) cable with 2.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	268.25	267.22	264.14	264.14
8.05.04.3	1C-2x4.0 sqmm (BYM) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	347.39	347.39	344.31	344.31
8.05.04.4	1C-2x6.0 sqmm (BYM) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	448.11	447.08	445.03	445.03

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.05	SURFACE WIRING (BYA) (THROUGH PVC CONDUIT) Surface conduit wiring with the following PVC insulated cable (BYA) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with 18 SWG GP sheet pull box with 3mm thick ebonite sheet cover, fixing materials, other accessories etc. including mending the damages good as required. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge[PWD-1.11.2]					
8.05.05.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	175.75	175.75	172.67	172.67
8.05.05.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	244.61	243.58	241.53	241.53
8.05.05.3	1C-2x4.0 sqmm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	328.89	327.86	324.78	324.78
8.05.05.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	434.75	433.72	430.64	430.64
8.05.05.5	1C-2x10 sqmm (BYA) cable with 10 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 31 mm having wall thickness of 1.9 mm	m	676.28	675.25	672.17	672.17
8.05.05.6	1C-2x16 sqmm (BYA) cable with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm	m	1,032.92	1,031.89	1,028.81	1,028.81
8.05.06	SURFACE WIRING (NYY) (THROUGH PVC CONDUIT) Surface conduit wiring with the following PVC insulated and sheathed stranded cable (NYY) / XLPE insulated and PVC sheathed stranded cable (2XY) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge[PWD-1.14.2]					
8.05.06.01	1C-4x2.5sqmm (NYY / 2XY) with 2.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	497.44	496.42	492.31	492.31
8.05.06.02	1C-4x4sqmm (NYY / 2XY) with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm	m	641.33	639.28	636.19	636.19
8.05.06.03	1C-4x6sqmm (NYY / 2XY) with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm	m	836.61	835.58	832.50	832.50

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.06.04	1C-4x10sqmm (NYY / 2XY) with 10 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm	m	1,237.44	1,236.42	1,231.28	1,231.28
8.05.06.05	1C-4x16sqmm (NYY / 2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm	m	1,758.53	1,757.50	1,753.39	1,753.39
8.05.06.06	1C-4x25sqmm (NYY / 2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 50 mm having wall thickness of 2.5 mm	m	2,512.92	2,511.89	2,506.75	2,506.75
8.05.06.07	1C-4x35sqmm (NYY / 2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 50 mm having wall thickness of 2.5 mm	m	3,177.89	3,176.86	3,171.72	3,171.72
8.05.06.08	1C-4x50sqmm (NYY / 2XY) with 25 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 65 mm having wall thickness of 3 mm.	m	4,385.53	4,384.50	4,379.36	4,379.36
8.05.06.09	1C-4x70sqmm (NYY / 2XY) with 35 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 65 mm having wall thickness of 3 mm	m	6,059.78	6,058.75	6,052.58	6,052.58
8.05.06.10	1C-4x95sqmm (NYY / 2XY) with 50 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 75 mm having wall thickness of 3 mm	m	8,014.61	8,012.56	8,007.42	8,007.42
8.05.06.11	1C-4x120sqmm (NYY / 2XY) with 70 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 75 mm having wall thickness of 3 mm	m	10,015.69	10,013.64	10,008.50	10,008.50
8.05.06.12	1C-4x150sqmm (NYY / 2XY) with 70 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 75 mm having wall thickness of 3 mm	m	12,272.69	12,270.64	12,264.47	12,264.47
8.05.06.13	1C-4x185sqmm (NYY / 2XY) with 95 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 100 mm having wall thickness of 3.4 mm	m	15,117.58	15,115.53	15,109.36	15,109.36
8.05.06.14	1C-4x240sqmm (NYY / 2XY) with 120 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 125 mm having wall thickness of 3.4 mm	m	19,888.53	19,886.47	19,877.22	19,877.22
8.05.06.15	1C-4x300sqmm (NYY / 2XY) with 150 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 125 mm having wall thickness of 3.4 mm	m	24,397.39	24,395.33	24,386.08	24,386.08
8.05.06.16	1C-4x400sqmm (NYY / 2XY) with 185 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 125 mm having wall thickness of 3.4 mm	m	31,785.06	31,783.00	31,773.75	31,773.75
8.05.06.17	1C-4x500sqmm (NYY / 2XY) with 240 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 150 mm having wall thickness of 4.5 mm	m	39,529.36	39,526.28	39,518.06	39,518.06
8.05.06.18	1C-4x630sqmm (NYY / 2XY) with 300 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 200 mm having wall thickness of 5.3 mm	m	49,974.67	49,971.58	49,963.36	49,963.36
8.05.07	CONCEALED WIRING (BYA) Concealed conduit wiring with the following PVC insulated stranded cable (BYA) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with 18 SWG GP sheet pull box with 3mm thick ebonite sheet cover, fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge[PWD-1.16.2]					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.07.1	1C-2x1.5sqmm (BYA) cable with 1.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16 mm having wall thickness of 1.5 mm	m	199.39	198.36	193.22	193.22
8.05.07.2	1C-2x2.5sqmm (BYA) cable with 2.5sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16 mm having wall thickness of 1.5 mm	m	250.78	249.75	244.61	244.61
8.05.07.3	1C-2x4.0 sqmm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 16 mm having wall thickness of 1.5 mm	m	362.81	360.75	354.58	354.58
8.05.07.4	1C-2x6.0 sqmm (BYA) cable with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	485.11	484.08	477.92	477.92
8.05.07.5	1C-2x10 sqmm (BYA) cable with 10 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm	m	701.97	699.92	692.72	692.72
8.05.07.6	1C-2x16 sqmm (BYA) cable with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm	m	1,038.06	1,036.00	1,029.83	1,029.83
8.05.08	CONCEALED WIRING (NYY) (THROUGH PVC CONDUIT) Concealed conduit wiring with the following PVC insulated and sheathed stranded cable (NYY) / XLPE insulated and PVC sheathed stranded cable (2XY) & PVC insulated Green / Yellow bi-colour ECC wire (BYA) through PVC conduit of reputed manufacturer complete with fixing materials other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge[PWD-1.17.2]					
8.05.08.01	1C-4x2.5 sqmm (NYY / 2XY) with 2.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm.	m	542.67	540.61	533.42	533.42
8.05.08.02	1C-4x4 sqmm (NYY / 2XY) with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm	m	685.53	683.47	676.28	676.28
8.05.08.03	1C-4x6 sqmm (NYY / 2XY) with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm.	m	938.36	936.31	929.11	929.11
8.05.08.04	1C-4x10 sqmm (NYY / 2XY) with 10 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm.	m	1,289.86	1,287.81	1,280.61	1,280.61
8.05.08.05	1C-4x16 sqmm (NYY / 2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 40 mm having wall thickness of 2.2 mm.	m	1,889.06	1,887.00	1,878.78	1,878.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.09	Providing & laying of following sizes HT (11KV) PVC insulated, sheathed, screened & armoured cable (NYSEYFGbY) / HT (11KV) armoured XLPE Cable : All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction / approval / acceptance of the Engineer In Charge.In kutcha ground by cutting 45.70 cm width x 91.40 cm depth trench with necessary brick or tile protection and mending the damages good by refilling trench with proper compaction.In pucca floor through required size of PVC pipe cutting trench of necessary size and mending good the damages with one layer 1st class flat brick soling,75 mm thick (1:2:4) cc work with neat cement finishing etc.In pucca ground / road through required size of PVC pipe by cutting 45.70cm width x 91.40 cm depth trench mending good the damages by earth refilling with proper compaction providing 50 mm thick compacted premix bituminous carpeting over one layer of 1st class flat brick soling and 75 mm thick compacted water bound macadam of khoa of brick. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge.[PWD-1.20.2]					
8.05.09.1	3Cx25 sqmm XLPE cable In pucca ground / pucca road through 75 mm PVC pipe having wall thickness of 3 mm.	m	3,939.47	3,935.36	3,918.92	3,919.94
8.05.09.2	3C x 35 sqmm cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	4,825.42	4,821.31	4,804.86	4,805.89
8.05.09.3	3C x 50 sqmm cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	5,733.97	5,728.83	5,713.42	5,714.44
8.05.09.4	3C x 70 sqmm XLPE cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	7,080.36	7,076.25	7,059.81	7,060.83
8.05.09.5	3C x 95 sqmm XLPE cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	8,708.36	8,704.25	8,687.81	8,689.86
8.05.09.6	3C x 120 sqmm XLPE cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	10,188.36	10,184.25	10,167.81	10,168.83
8.05.09.7	3C x 150 sqmm XLPE cable In pucca ground / pucca road through 100 mm PVC pipe having wall thickness of 3.4 mm.	m	11,943.81	11,939.69	11,923.25	11,925.31
8.05.09.8	3C x 185 sqmm XLPE cable In pucca ground / pucca road through 125 mm PVC pipe having wall thickness of 3.4 mm.	m	14,585.19	14,581.08	14,564.64	14,566.69
8.05.10	TELECOMMUNICATION CABLE Supplying and drawing of following sizes PVC insulated & sheathed twisted pair telecommunication cables having dia of each core is 0.6 mm through prelaid pipes. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) approved / accepted by the Engineer In Charge.[PWD-1.21.1]					
8.05.10.01	1C-2x0.282 sqmm (1 pair)	m	23.64	23.64	23.64	23.64
8.05.10.02	1C-4x0.282 sqmm (2 pair)	m	34.94	34.94	34.94	34.94
8.05.10.03	1C-6x0.282 sqmm (3 pair)	m	49.33	49.33	49.33	49.33
8.05.10.04	1C-8x0.282 sqmm (4 pair)	m	68.86	68.86	68.86	68.86
8.05.10.05	1C-10x0.282 sqmm (5 pair)	m	82.22	82.22	82.22	82.22
8.05.10.06	1C-12x0.282 sqmm (6 pair)	m	98.67	98.67	98.67	98.67
8.05.10.07	1C-16x0.282 sqmm (8 pair)	m	124.36	124.36	124.36	124.36
8.05.10.08	1C-20x0.282 sqmm (10 pair)	m	154.17	154.17	154.17	154.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.10.09	1C-40x0.282 sqmm (20 pair)	m	287.78	287.78	287.78	287.78
8.05.10.10	1C-100x0.282 sqmm (50 pair)	m	689.64	689.64	689.64	689.64
8.05.11	CO-AXIAL CABLE Supplying & drawing of following sizes PVC insulated & sheathed 75 ohm impedance co-axial cables through prelaid pipes. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.)) approved/accepted by the Engineer In Charge.[PWD-1.22.1]					
8.05.11.1	4 / C	m	50.36	50.36	50.36	50.36
8.05.11.2	5 / C	m	60.64	60.64	60.64	60.64
8.05.11.3	6 / C	m	79.14	79.14	79.14	79.14
8.05.12	Overhead ASC Providing and drawing following PVC insulated aluminum stranded conductor in overhead line at proper sag complete with necessary GI binding wire as required as per BDS 1036. Cable manufacturer(s) must have valid test certificate from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the engineer [PWD-3.11.2]					
8.05.12.1	IC-25 sq.mm (GNAT)	m	68.86	68.86	68.86	68.86
8.05.12.2	IC-50 sq.mm (ANT)	m	120.25	120.25	120.25	120.25
8.05.12.3	IC-75 sq.mm (EARWIG)	m	211.72	211.72	211.72	211.72
8.05.12.4	IC-100 sq.mm (WASP)	m	217.89	217.89	217.89	217.89
8.05.13	GALVANIZED CABLE TRAY Supply, fitting and fixing galvanized cable tray made of 18 SWG (1.2 mm) MS Sheet evenly perforated with 7 mm width Capsule hole punch with self-Hanging Facility at top, joint clamp, including fabricating cost of electricity, tools and plants, workshop charges, carriage of the same, cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4), etc. complete for all floors accepted by the engineer.[PWD-4.33]					
8.05.13.1	100x50 mm without cover	m	1,450.19	1,450.19	1,450.19	1,450.19
8.05.13.2	200x50 mm without cover	m	1,797.58	1,797.58	1,797.58	1,797.58
8.05.13.3	300x100 mm without cover	m	2,395.75	2,395.75	2,395.75	2,395.75
8.05.13.4	500x100 mm without cover	m	2,976.44	2,976.44	2,976.44	2,976.44
8.05.14	GALVANIZED CABLE LADDERS Supply, fitting and fixing of Galvanized cable ladders made of 14 SWG (2 mm) MS Sheet with rungs spaced of 300 mm centers, 100x25mm side rail with multiple formation to protect from torsion and bending with full loading capacity with self-Hanging Facility at top and bottom, joint clamp, including fabricating cost of electricity, tools and plants, workshop charges, carriage of the same, cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4), etc. complete for all floors accepted by the engineer.[PWD-4.34]					
8.05.14.1	300x100 mm	m	4,414.31	4,414.31	4,414.31	4,414.31
8.05.14.2	400x100 mm	m	5,044.33	5,044.33	5,044.33	5,044.33
8.05.14.3	600x100 mm	m	6,180.03	6,180.03	6,180.03	6,180.03
8.05.14.4	900x100 mm	m	7,819.33	7,819.33	7,819.33	7,819.33

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.05.15	BUSBAR TRUNKING SYSTEM Supply and fixing bus bar trunking system (800 A and above) both feeder and plugging having the following specification :- Rated operation voltage 1000V 3-phase, 5 wire . All bus-bar trunking products and fixing (straight length, elbow, tees, flanged ends, cable tap box and circuit breaker etc.) shall be in accordance with IEC61439 ; 2012 or UL 857 and from the same manufacturer as per bus bar trunking system. Short circuit rating : 800 A - 1000 A (40-60 KA/sec) 2500 A - 4000 A (165 -220 KA/sec) Housing: Constructed of code gauge steel and aluminum to reduce hysteresis and eddy current losses. It shall be totally enclosed non ventilated and anticorrosive ability. Bus bar: Hard drawn silver plated high conductivity copper of 99.9% purity.Bus-bar insulation :Class B or class F rated polyester film. (no epoxy insulati) Joint: Bus bar trunking joint shall be of the one-bolt type and shall be possible to remove any joint connection assembly to allow electrical isolation of bus bar trunking length. Indoor feeder and plug-in trunking shall be hanged 3 meters horizontally and 4.88 meters vertically spacing. Line to line voltage drop shall not exceed 4% when connected at full load. Temperature rise at any point of the bus bar trunking enclosure shall no exceed 550C. Bus bar trunking system with flange, elbow, plug in points and fixing supports.[PWD-4.8.1]					
8.05.15.1	800 A	m	141,432.50	141,432.50	141,429.42	141,429.42
8.05.15.2	1000 A	m	146,476.83	146,476.83	146,474.78	146,474.78
8.05.15.3	1250 A	m	150,260.08	150,260.08	150,258.03	150,258.03
8.05.15.4	1600 A	m	157,826.58	157,826.58	157,824.53	157,824.53
8.05.15.5	2000 A	m	196,922.22	196,922.22	196,919.14	196,919.14
8.05.16	UTP Cat-6 CABLE Supply, installation, testing & commissioning of UTP (unshielded twisted pair) Cat-6 cable with following specifications or equivalent as per direction of the Engineer in charge. Physical specifications: Weight: 25.6 lbs. /1,000 ft. (38.2 kg/km) Jacket thickness: 0.022 in (0.56 mm) Outside diameter: 0.232 in (5.89 mm) Maximum pulling tension: 25 lbs. (11.34 kg) Operating temperature: - 4°F to 1 40°F (-20°C to 60°C) Gauge: 23 AWG Electrical specifications: NVP (fastest pair @ 10 MHz): 69% Maximum DC resistance: 7.61 ohms / 100 m Maximum DC resistance unbalance: 3% Mutual capacitance at 1 kHz: 5.6 nF/100 m ANSI/TIA-568-C.2 category 6. ISO/IEC 11 801: 2002 (edition 2) class E CENELEC EN50173: 2002 (edition 2) category 6 ETL: CMR [PWD-17.26]	m	82.22	82.22	79.14	79.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-06: Switch Board, Switch and Socket						
8.06.1	UNIVERSAL COMBINED SWITCH SOCKET OUTLET (SURFACE/CONCEALED TYPE) Providing & fixing 250 volt single phase universal combined switch socket outlet (surface / concealed type) Manufactured/ Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / plastic board (self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. Sample to be approved by the Engineer-in-charge.Manufacturer shall have certificate of standard which they follow. Made in HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD-4.11.1.1]					
8.06.1.1	13 / 15 / 16 / 20 Amps.	each	968.17	968.17	968.17	968.17
8.06.1.2	5 - 10 Amps.	each	734.86	734.86	734.86	734.86
8.06.2	GANG SWITCH Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. All electrical contacts shall be of brass / copper. MADE IN HONGKONG / MALAYSIA / SINGAPORE / S KOREA / THAILAND [PWD- 4.12.2]					
8.06.2.01	One gang switch	each	224.06	224.06	224.06	224.06
8.06.2.02	Two gang switch	each	385.42	385.42	385.42	385.42
8.06.2.03	Three gang switch	each	528.28	528.28	528.28	528.28
8.06.2.04	Four gang switch	each	784.19	784.19	784.19	784.19
8.06.2.05	One gang switch & one 5/10 Amps. 2-pin socket combined.	each	526.22	525.19	525.19	525.19
8.06.2.06	Fan regulator(gang type)	each	1,219.97	1,218.94	1,218.94	1,218.94
8.06.2.07	Call bell push(gang type)	each	495.39	495.39	495.39	495.39
8.06.2.08	Telephone socket(gang type)	each	625.92	624.89	624.89	624.89
8.06.2.09	TV socket (gang type)	each	625.92	624.89	624.89	624.89
8.06.2.10	20 AMP DP Switch	each	955.83	954.81	954.81	954.81
8.06.2.11	Data/ Internet Socket	each	1,126.44	1,125.42	1,125.42	1,125.42
Section-07: Earthing and Thunder Protection						
8.07.1	EARTHING Earthing the electrical installation with 40 mm (1.5") dia G.I. pipe (earth electrode) having 6.35 mm. dia hole across the pipe at 305 mm. interval securely bonded by soldering with 2 nos. of No-2 SWG HDBC earth leads (at the top of the electrode) with its protection by 20 mm. (3/4") dia G.I. pipe up-to plinth level run at a depth of 609.6 mm (2 ft) below G.L up-to main board to be earthed including necessary connecting copper sockets, bolts, nuts, etc. complete for maintaining earth resistance within 1 ohm. [PWD- 4.19]					
8.07.1.01	Depth of bottom of main electrode at 12954 mm. (42.5 ft) from GL & length of electrode 12192 mm. (40 ft). [PWD- 4.19.2]	set	30,267.03	30,267.03	30,267.03	30,267.03
8.07.1.02	Depth of bottom of main electrode at 37338 mm. (122.5 ft) from GL & length of electrode 36576 mm. (120 ft). [PWD- 4.19.6]	set	52,967.56	52,967.56	52,967.56	52,967.56
8.07.2	LIGHTNING ARRESTER					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.07.2.1	LIGHTNING ARRESTER (Up to 6-storied building) Providing & fixing 25.4 mm (1") dia 457 mm (1.5 ft) long solid copper rod with 6.6 mm thick 150 mm x 150 mm copper made base with sharp end top, fixed on the top of 2.0"(2.5 - 3 mm thick) dia 10' long GI pole by necessary accessories . The pole shall fixed on parapet wall with necessary CC work and other accessories for arresting lightning as per plan (enclosed) and as per direction of the Engineer. [Fig : 4.21] [PWD-4.21.1]	set	7,778.22	7,777.19	7,772.06	7,772.06
8.07.2.2	Providing & drawing no-2 HDBC wire through 12.7 mm. (½") dia G.I. pipe including fitting, fixing the G.I. pipe in wall or column complete as required. [PWD-4.21.2]	m	1,164.47	1,164.47	1,163.44	1,163.44
8.07.3	LIGHTNING ARRESTER(Above 6-storied building) (Item no : 4.22.1 - 4.22.9) [PWD-4.22]					
8.07.3.1	Supply, installation, testing and commissioning early streamer Emission Air Terminal (ESEAT)/ Collection Volume Method (CVM) as per IEEE 998-2012 or equivalent product having the following technical specification - (i)Withstand Peak Lightning Current : 100 KA (ii)Weather condition of work : Material of lightning Air Terminal should be able to work in any environmental condition. So, material of Air Terminal should be stainless steel. (iii)Dimension of the air terminal :Minimum length : 220 mm25mm dia solid rod at the bottom of the Air Terminal having M20 male thread to fix on mast. (iv)Certified advance Time : Maximum 60µ second with a current peak higher than 100 KA. (v)Material of the Air Terminal : Stainless steel (vi)Weight : 2.25 – 4.00 kg. (vii)Radius of protection : 90 – 100 meter at 5 meter heig from the Plan (viii)Product certification and standards: System should compliant to UL-96 (lightning protection component) (standard of safety)(ix)Manufactured / Assembled and made in : USA / FRANCE / AUSTRALIA or EU countries.[PWD-4.22.1]	each	319,066.42	319,066.42	319,066.42	319,066.42
8.07.3.2	Supply and installation of insulated Air Terminal mast of the following specificati- Made of stainless steel (Type : 316) Length : 2300 mm Dia : 30mm The mast shall be fixed on the top of the GI tower with SS nuts bolts, clamps as per sample approved by the Engineer-in-charge. [PWD-4.22.2]	each	18,380.78	18,380.78	18,380.78	18,380.78
8.07.3.3	Supply and installation of lightning event counter of the following technical specification - Register capacity : 0-999 mechanical counting without external power supply (LCD display) The down conductor shall pass the hole of the counter and the same shall be fixed vertically at any point. [PWD-4.22.3]	each	50,760.92	50,760.92	50,760.92	50,760.92
8.07.3.4	Supply and installation of earth test box with the following arrangement inside it. Test Joint : (79mm x 50mm x 20mm) made of copper.30mm x 2mm and dia 8mm, line coupling made of copper.[PWD-4.22.4]	each	1,544.75	1,544.75	1,544.75	1,544.75
8.07.3.5	Supply and drawing of copper made down conductor having dia 12.7 mm or copper strip (30mmx2mm) with fixing holder on vertical and horizontal surface. The fixing shall have 40mm to 50mm length or height and will be placed 3 nos per meter as per direction and sample approved by the Engineer-in-charge .[PWD-4.22.5]	m	2,323.81	2,323.81	2,323.81	2,323.81

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1	2	3	4	5	6	7
8.07.3.6	Construction of GI tower with the following specification - GI Pole: Dia 3", Length: 15' (L-10', D-3"; L-5', D- 2") duly painted with powder coating with epoxy polyester resin . There will be minimum three Guy-wire for erection of the pole properly. The base of the pole and guy will be installed by CC on the roof-top and the size will be as required to hold the pole at any circumstances.[PWD-4.22.6]	each	13,620.11	13,620.11	13,620.11	13,620.11
8.07.3.7	Construction of earthing (2 nos.) for the lightning arrester as per instruction and enclosed diagram (Fig : 4.21) and as per direction of the Engineer in the following way- (i)Soil digging : Size – 3000mmx400mmx400mm (2 nos.) (ii)Construction of pit by brick and RCC slab on it. On the top of the slab there will be a hole and a pit cover made by cast iron will be fixed on it. (iii)Size of the pit : (600mmx600mmx600mm) (2 nos.) (iv)Copper plate : (300mmx150mmx15mm) (2 nos.)Copper plate will be fixed with the electrode (copper rod or copper strip) by necessary fixing materials made of copper. (v) Copper electrode (12.7mm dia copper rod or copper strip (30mmx2mm)Length of the copper rod or strip : minimum 3000mm (10+10) = 20 meter.(vi)Ground enhancing materials (40 + 40) = 80 kg.(2 Nos. of earthing is considered 1 set)[PWD-4.22.7]	job	157,641.58	157,641.58	157,641.58	157,641.58
8.07.3.8	Surge protection device (SPD) for protection of over-head line connected to LT line.Capacity : 50 KA 4-pole with wiring and SPD box.Made in GERMANY / AUSTRALIA / SPAIN or product of EU countries. [PWD-4.22.8]	set	55,805.25	55,805.25	55,805.25	55,805.25
8.07.3.9	Supply and installation of Aviation light fittings with LED Lamp, day light sensor, wiring by 1C-2x1.5 sq.mm cable (NYY) with ECC as per instruction and sample approved by the Engineer-in-charge.The Aviation Light fitting shall be fixed on GI pipe (GI Bracket) with necessary fixing materials shown in the fig - 4.22, below the Air Terminal. [PWD-4.22.9]	each	11,129.81	11,129.81	11,129.81	11,129.81
8.07.4	Construction of earthing inspection pit inside measurement 600 mm x 600 mm with 250 mm thick brick in cement mortar (1:4) with 100mm thick RCC top slab (1:2:4) with 1% re-enforcement 450 mm dia water sealed CI man-hole cover with locking arrangement including necessary earth works, site filling and one brick flat soling 75 mm thick (1:3:6) base concrete for making inlet channel & 12mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of .75 meter. [PWD-4.20]	each	7,566.50	7,566.50	7,566.50	7,566.50
Section-08: Miscellaneous						
8.08.1	PVC PIPE Providing & laying of following PVC pipe (best quality PVC pipe of reputed manufacturer) embedded in wall / column / ceiling / floor etc. with all accessories, 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials etc. as required including mending the damages good. [PWD-1.25]					
8.08.1.1	Minimum inner dia 12 mm & minimum wall thickness 1.5 mm.	m	33.92	33.92	33.92	33.92
8.08.1.2	Minimum inner dia 20 mm & minimum wall thickness 1.5 mm.	m	51.39	51.39	51.39	51.39
8.08.1.3	Minimum inner dia 25 mm & minimum wall thickness 1.7 mm.	m	68.86	68.86	68.86	68.86
8.08.1.4	Minimum inner dia 40 mm & minimum wall thickness 2.2 mm.	m	153.14	153.14	153.14	153.14

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1	2	3	4	5	6	7
Section-09: Ceiling and Exhust Fan Fittings						
8.09.1	CEILLING FAN Supplying & fixing AC capacitor type ceiling fan (without regulator) of following specifications and sizes complete with minimum 305 mm (1 ft) long and 0.75 -1.0" dia, 2.3 mm thickness MS pipe down rod, tempered cast aluminum blades, 2.5 µf 400V AC capacitor, canopy, double Z ball bearing, best quality silicon sheet core, best quality copper made super enamel wire, aluminum alloyed casting body / metal body having safety pin with powder coated heat / docu paint as required as per BDS 818 etc. connecting PVC wire complete as required.Rated voltage : 230 voltsRated frequency : 50 HzRated speed : 300 rpm ± 5 %Service value : Minimum 3.5 m3 / min / wattTemperature rise : Maximum 55ºCClass of Insulation : Minimum ENoise level : Maximum 60 dB at a distance of 1 meter.Input power : Maximum 70 watt.[PWD-21.1]					
8.09.1.1	1442 mm. (56") Sweep	each	3,833.61	3,830.53	3,817.17	3,817.17
8.09.1.2	1220 mm. (48") Sweep	each	3,594.14	3,590.03	3,577.69	3,577.69
8.09.1.4	Providing & fixing box type fan clamp made of 25.4 mm. x 6.35 mm. (1"x ¼") MS flat bar using a 12 mm. dia MS rod having at least 750 mm clearance around and shall be placed above the MS rod mesh of the roof slab including necessary bolts, nuts etc. as required as per sample approved by the Engineer.[PWD-21.4.1]	each	176.78	176.78	175.75	175.75
8.09.1.5	Providing & fixing U type fan clamp made of 12 mm. dia MS rod having at least 750 mm clearance around and shall be placed above the MS rod mesh of the roof slab including necessary bolts, nuts etc. as required as per sample approved by the Engineer.[pwd-21.4.2]	each	138.75	138.75	137.72	137.72
8.09.2	EXHAUST FAN Providing and fixing of following axial flow AC capacitor type wall mounted exhaust fan complete with blade, steel frame standard wall louver shutter, PVC insulated connecting wire etc. complete as required including cutting wall and mending good the damages as per direction of the Engineer.[PWD-21.2]					
8.09.2.1	8" Exhaust fan plastic body (foreign made accepted / approved by the Engineer).	each	1,374.14	1,370.03	1,353.58	1,353.58
8.09.2.2	10" Exhaust fan plastic body (foreign made accepted / approved by the Engineer).	each	1,450.19	1,445.06	1,428.61	1,428.61
8.09.2.3	12" Exhaust fan plastic body (foreign made accepted / approved by the Engineer).	each	1,626.97	1,621.83	1,605.39	1,605.39
8.09.3	FAN REPAIRING Full-re-winding the fan by required size of super enameled copper wire, ampere tube, cotton tape, leatheroid paper including heating, varnishing, testing etc. complete as required (dismantle wires shall be taken by the contractor).[PWD-21.7]					
8.09.3.1	56" AC ceiling fan	each	1,323.78	1,322.75	1,318.64	1,318.64
8.09.3.2	CAPACITOR FOR FAN Supply & installation of the following size fan capacitor (foreign made or equivalent brand accepted / approved by the Engineer).2.8 / 3.5 µF[PWD-21.11.2]	each	164.44	162.39	159.31	159.31

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1	2	3	4	5	6	7
Section-10: Light Fittings						
8.10.01	Fancy Saucer Light Providing & fixing of the fancy saucer light fitting(except lamp) with brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 7W LED Bulb Material: SS/MS Sheet, GlassSize: D-215mm mm Gloria Cat No-GCLF-692 Energy+ EPSL-90 Cosmo cat no-BDTCL-SL-04 Asha Cat No. ACS-P 2816 Crescent-CMP-23or equivalent [PWD-6.5.1.5]	each	971.25	971.25	968.17	968.17
8.10.02	BRACKET LIGHT FITTINGS (Except Lamp) Providing & fixing of the fancy bracket light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source: 1x9W LED Bulb Material: SS pipe (Size-30*30mm, thick- 1.2mm) & SS Sheet body, Alu Sheet, MS Sheet, Glass.L-100mm, H-220mm, P-1mm GLORIA cat. no. GWBL-2505-2861 Energy+ Cat No EPWL-300 Cosmo Cat No-BDTCLGWB-01 Asha Cat No-ACS-BS-1221 G57 Crescent-CB-1802/1or equivale.[PWD-6.2.1.1]	each	971.25	971.25	968.17	968.17
8.10.03	BATHROOM LIGHT FITTING(EXCEPT LAMP) Providing & fixing of the bath-room light Fittings consisting of oxidized or golden or chromium plated brass base with carrier, brass holder , earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light sour 9W LED Bulb Material: SS Sheet, SS/Brass pipe (Dia-10mm), Aluminium Sheet, GlassL-350mm B-120mm P-mm GLORIA cat. no. GBB-959-2105-FREnergy+ Cat no-EPML-100 Cosmo Cat No-BDTCL-MLF-01 Asha Cat No. ACS-BB 2802 TTG Crescent-CB-476/9-644/9Watt: 9W LED Bulb or equivalent.[PWD-6.4.1.1]	each	971.25	971.25	968.17	968.17
8.10.04	PENDENT LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing of the fancy pendent light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc (except lamp) of the following manufacturer's model & catalogue number. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material : Aluminium Sheet body, SS. Pipe (Dia-12mm), Brass Aloy, MS Sheet Base. Total : Dia-440mm, Height-550mm GLORIA cat. no. GHBL-1169Energy+ Cat No-EPHL-280 Cosmo Cat No-BDTCL-HL-03 Asha Cat No-ACS-CP 228, Crescent-CML- 527 or equivale.[PWD-6.1.1.3]	each	2,232.33	2,232.33	2,229.25	2,229.25
8.10.05	FOOT LIGHT FITTINGS(EXCEPT LAMP) Providing & fixing the stair light Fittings with earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy Glass/ Polycarbonate Energy+ cat no-EPSTL-13024ADEX AD SHY8 Asha Cat No. ACS-F 245or equivalent.[PWD-6.13.1.2]	each	1,570.44	1,570.44	1,567.36	1,567.36

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.06	TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source 20T-8 tube Material: MS SheetL-1235mm B-50mm P-mm Gloria cat no-GTF(LED)751x1x20W Energy + EPIL-430 Cosmo cat no-BDTCL-TLF-02 Asha Cat no-ACS -335x1x40W Crescent-CTLS-7x1x40 Watt or equivelent[PWD-6.6.1.1]	each	661.89	661.89	659.83	659.83
8.10.07	FLOOD LIGHT FITTINGS Providing & fixing the Metal halide flood light Fittingsconsisting of black / gray coloured die-cast Aluminium body, housing for control gear, polished Aluminium reflector, 4 mm toughened heatproof glass, universal mounting for ceiling, wall or surface, hinged front glass for in position lamp replacement, cable entry gland, U-shaped bracket for pole mounting, brass holder, ballast (Phillips/ Harmonics /GE), ignitor, capacitor, necessary wiring with FR cable suitable for use with metal halide lamp, earth terminal etc. complete with metal halide lamp (Phillips /Harmonics/GE). Complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Gloria Cat No-GMHL-741x1x400W Cosmo Cat no-BDTCL-HL-03 Asha Cat No. ACS-M 41 (MAT) 400W or equivalent.[PWD-6.9.1.2]	each	12,828.72	12,828.72	12,825.64	12,825.64
8.10.08	CEILING MOUNTED SAUCER LIGHT FITTINGS (EXCEPT LAMP) Fancy Saucer Light Providing & fixing of the fancy saucer light fitting (except lamp) with brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 12W LED Bulb Material: SS/MS Sheet, Glass Size: D-293mm H-95mm Gloria Cat No-GCF-696 Energy+ EPSL-9021 Cosmo cat no-BDTCL-SL-05 Asha Cat No. ACS-P 2871 Crescent-CPC-51-FG Or equivalent. [PWD-6.5.1.6]	each	971.25	971.25	968.17	968.17
8.10.09	Providing & fixing of the fancy pendent light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc (except lamp) of the following manufacturer's model & catalogue number. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source15W LED Bulb, Material: Alu. Sheet body, SS. Pipe (Dia-12mm), MS Sheet .Total : Dia-350mm, Height-750mm Gloria cat no- GHPL-1177 Energy+ EPHL-28037, Asha Cat No. ACS-CP 1342 or equivalent.[PWD-6.1.1.4]	each	2,484.14	2,484.14	2,482.08	2,482.08
8.10.10	Tube light holder [PWD-6.24.1]					
8.10.10.1	two (2) nos in set	each	205.56	205.56	203.50	203.50
8.10.10.2	L-Type	each	217.89	217.89	215.83	215.83
8.10.10.3	Round type	each	220.97	220.97	217.89	217.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.11	SINGLE TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty)Light source 20W T LED tube Material: MS Sheet, Design Acrylic (thick-2.5mm)L-1240mmB-60mm H-106mm Gloria cat no-GTF(LED)755x1x20WEnergy + EPIL-43002Cosmo cat no-BDTCL-TLF-03Asha Cat No. ACS-TLS 317x1x40WCrescent-CTLS-68x1x40 Wattor equivalent.[PWD-6.6.1.2]	each	1,020.58	1,020.58	1,017.50	1,017.50
8.10.12	DOUBLE TUBE LIGHT FITTINGS ((LUVER TYPE) Supply & fixing of pendent LED light fittings of following Specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min),ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent, LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature: 3500K-6500K (Warm-White),Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: MS Sheet, Plastic CoverL-1200mm GLORIA cat. no. GTF-789 Energy+-EPHL-28062 Cosmo Cat No-BDTCL-TLF-01,Asha Cat No. ACS-LTLS 3096x2x18W, or equivalent.[PWD-6.1.2.1]	each	2,295.03	2,295.03	2,292.97	2,292.97
8.10.13	FLOOD LIGHT FITTINGS (HALOGEN) Providing & fixing the halogen flood light Fittings consisting of Aluminium sheet body of min. breadth 410mm & height 300mm, anodized Aluminium reflector, heat proof glass cover, polished holder, earth terminal necessary wiring with FR cable suitable for use with 1500 watt lamp etc. (except lamp). Complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Gloria Cat No-GLFL 709x1x1500W Cosmo Cat no-BDTCLHL-01 Asha cat No-ACS-M-41- 400-wor equivalent.[PWD-6.9.2.1]	each	2,043.22	2,043.22	2,040.14	2,040.14
8.10.14	EMERGENCY EXIT LIGHT FITTINGS (LED) Supply & fixing of LED sign of the following features and model with all necessary elements such as drivers, chips etc. complete model and sample shall be approved by the Engineer.Exit light Gloria cat no-GEXT 54, 3W ENERGY + model no- (green / red) EPES - 34001 (3 W) (green) & EPES - 34005 (3 W) (red)Cosmo cat no-SE-01Asha Exit Light 3W-Asha Cat No. ACS SIGN 001or equivalent.[PWD-6.15.1]	set	945.56	945.56	943.50	943.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.15	SPOT LED LIGHT FITTINGS Supply & fixing spot/Panel LED light fittings of following specifications: Luminous efficacy: i) For Spot/Bracket LED Light Fittings: 80 lm/W (min), ii) For Panel/Tube Light Fittings: 100 lm/W (min) Power Factor: minimum 0.95 Colour Rendering Index(Ra) : i) For Residential building Ra≥80 ii) For office and other types of buildings 70≤Ra<85 Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY (PHILIPS) or equivalent LED chips: EPISTAR / OSRAM / SIGNIFY (PHILIPS) / CREE / BRIDGELUX or equivalent. Colour temperature: 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy (thick-2.5mm), Alu reflector, Glass Size: Dia-85mm Gloria Cat no- GCDL-322, 5W Energy+ EPCSL-6053 Cosmo cat no-BDTCL-CSL-01 (5W) Adex-AD SLM 5W 830/840 Asha Cat No. ACS-LS 1501 Pasha Cat No PECS008001/7W or equivalent. [PWD-6.5.2.6]	each	1,003.11	1,003.11	1,000.03	1,000.03
8.10.16	CELLING CONCEALED LIGHT FITTINGS (LED) Supply & fixing spot/Panel LED light fittings of following specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min),ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy (thick-3mm), Alu reflector, GlassSize: D-75mm H-110mm Gloria Cat no- GSDL-519, 10W Energy+ cat no-EPSDL-5004 Cosmo cat no-BDTCL-SDL-02 Asha Cat no-ACS LS-1568 (15/24 w)or equivalent. [PWD-6.5.2.6]	each	2,043.22	2,043.22	2,040.14	2,040.14
8.10.18	GARDEN & GATE LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing the garden / gate light Fittings with frosted fancy glass cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable ,and ingress protection (IP 55) and polished brass base suitable for Fittings with 38.1 mm. dia G.I pipe post. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). With Dia-305mm,Heighi-615mm Material: Cast Aluminium, MS Sheet and GlassCast Aluminium thickness: minimum 5mm Gloria Cat no-GGL-160 Energy+EPGL-16010 Cosmo Cat no-BDTCL-GDL-01Asha cat no-ACS GL-2948-NET Crescent-CGL-49 (N)or similar product of SUNKO, ANNYESHA, FLOS or equivale [PWD- 6.7.1.1]	each	2,169.64	2,169.64	2,166.56	2,166.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.19	Street Light (Except Lamp) Providing & fixing the water tight street light Fittingswith clear acrylic sheet semicircular shade, brass holder, earth terminal necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable and ingress protection (IP 65) & mountable on 38.1 mm (1.5") dia G.I pipe bracket, suitable for LED lamp (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). GLORIA cat. no. GRL-703(Net) ENERGY+ model no - EPBL 23036 Cosmo BDTCL-STLF-01 Crescent-CST-1008 (N) Asha cat No-ACS-RL-2984-Nor equivalent.[PWD- 6.8.1.1]	each	1,512.89	1,511.86	1,508.78	1,508.78
8.10.20	DOUBLE TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: MS sheet, Aluminium reflectorL-1213 mm B-300 mm, H-80mm Gloria cat no- GTF (LED)-805x2x20 w Energy+EPLS-3018 Asha Cat ACS-TLS 339x2x20W (4') LED Crescent-CTLS - 5027or equivalent. [PWD- 6.6.1.16]	each	3,045.31	3,045.31	3,043.25	3,043.25
8.10.21	GARDEN & GATE LIGHT FITTINGS (LED) Supply & fixing LED garden & gate light fittings of following specifications:Luminous efficacy: 80 lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Watt: 15W LED bulb, Voltage: AC165-265V, with dia : 230 mm and height :610 mm Material: Aluminium alloy & MS sheet painted with epoxy powder paint & glassCast Aluminium thickness : minimum 5 mm Gloria cat no- GGL (LED) -375 Energy+EPGL-16035 Cosmo BDTCL-GDL-01 Asha Cat No. ACS-GL 1706 Crescent-CGL-86or similar product of SUNKO, ANNYESHA, FLOS or equivalent [PWD- 6.7.2.2]	each	1,166.53	1,165.50	1,161.39	1,161.39
8.10.22	GI POLE(25') Providing following seamless GI pole fabricated with GI pipe complete with GI sockets, MS. base plate, top cover, necessary welding as required:-Total length-25'; Dia-4"; Length-20'; Thickness-4mmDia-3"; Length-5'; Base plate-1.5'×1.5'×0.25"[PWD- 3.2.4]	each	17,009.72	17,009.72	17,009.72	17,009.72
8.10.23	GI POLE(30') Providing following seamless GI pole fabricated with GI pipe complete with GI sockets, MS. base plate, top cover, necessary welding as required:-Total length-30'; Dia-6"; Length-20'; Thickness-4mmDia-4"; Length-10'; Base plate-2'×2'×.25"[PWD- 3.2.3]	each	30,024.47	30,024.47	30,024.47	30,024.47

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.24	STREET LIGHT FITTINGS (SODIUM/MHL) Providing & fixing of the street light Fittingswith high pressure sodium lamp consisting of epoxy powder coated grey colour Aluminium die-casting body, high purity anodized Aluminium reflector, terminal resistant tempered frosted glass cover, high pressure sodium lamp, E-40 / E-27 holder, Ignitor, mfd capacitor, control gear, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable & mountable on 38.1 mm (1.5") dia G.I pipe bracket etc. complete. (with lamp) as per sample accepted / approved by the Engineer-in-charge (with 2 years warranty).Gloria Cat. No: GLST.1214, MHL ENERGY + model no- EPSTL - 18002/1 x E40 MHL Cosmo-BDTCL-MSTL-01 Asha Cat No. ACS-LSL 2344 MHLCrescent-CST 2022or equivalent products of SUNKO/Annyesha/SHWASH/Crescent or equivalent foreign made 400W. [PWD- 6.8.2.3]	set	7,072.14	7,072.14	7,070.08	7,070.08
8.10.25	CEILING MOUNTED SAUCER LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing of the fancy saucer light fitting(except lamp) with brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 12W LED BulbMaterial: MS Sheet, Brass Alloy , Opel Acrylic (thick-2.5mm)Size: D-350mm L-120mmGLORIA cat. no. GCF- 801X1"X32W opel Energy+ EPSL-9018Cosmo cat no- BDTCL-SL-02 Adex-AD-SCL /20W 830/840/865 Asha Cat No. ACS-TLS 415 EX20WCrescent-CML-42(32W R/T)or equivalent (except lamp).[PWD- 6.5.1.2]	each	1,349.47	1,349.47	1,346.39	1,346.39
8.10.26	CEILING MOUNTED SAUCER LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing of the fancy saucer light fitting(except lamp) with brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 7W LED BulbMaterial: MS Sheet, Brass aloy, GlassSize: D-313mm H-126mmGloria cat no- GCLF-640 LED/CFL-7 wEnergy+ EPSL-9023Asha Cat No. ACS-P 3652Crescent-CPM-423-P-BLKor equivalent.[PWD- 6.5.1.8]	each	1,223.06	1,223.06	1,221.00	1,221.00
8.10.27	BRACKET LIGHT FITTINGS (Except Lamp) Providing & fixing of the fancy bracket light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source: 1x9W LED BulbMaterial: SS pipe (Size-30*30mm, thick- 1.2mm) & SS Sheet body, Alu Sheet, MS Sheet, Glass.L-100mm, H-220mm, P-120mm GLORIA cat. no. GWBL-2505-2861 Energy+ Cat No EPWL-30003 Cosmo Cat No-BDTCLGWB-01 Asha Cat No-ACS-BS-1221 G57 Crescent-CB-1802/1or equivalent.[PWD-6.2.1.1]	each	971.25	971.25	968.17	968.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.28	BRACKET LIGHT FITTINGS (Except Lamp) Providing & fixing of the fancy bracket light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source 9W LED Bulb Material: Brass/SS pipe (Dia-10mm), SS Sheet, Alu. Sheet, GlassH-222mm B-185mm P-90mm Gloria- GWB-2759-2420 Cosmo Cat No-BDTCL-GWB-11 Crescent-CB-565-970 BR Asha Cat No. ACS-BS 3231 or equivalent [PWD-6.2.1.9]	each	932.19	932.19	929.11	929.11
8.10.29	BATHROOM LIGHT FITTING(EXCEPT LAMP) Providing & fixing of the bath-room light Fittings consisting of oxidized or golden or chromium plated brass base with carrier, brass holder , earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Providing & fixing of 1 x 2'-0" tube light Fittingsmade of 22 SWG sheet steel rust proof powder coated base & designed perspex sheet cover each of minimum length 640 mm (breadth of Fittings70mm), holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete set (except lamp) as per sample accepted / approved by the Engineer-in-charge (with 2 years warranty). GLORIA cat. no. GTF-755 x1x10 W Energy+ Cat no-EPML-10039 Cosmo Cat No-BDTCL-MLF-02Adex-AD-TUL- 10W 830/840/865 Asha Cat No. ACS-TLS 317x1x10W Crescent-CBBI -1008 LD Slor equivalent.[PWD-6.4.1.2]	each	760.56	760.56	757.47	757.47
8.10.30	PENDENT LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing of the fancy pendent light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc (except lamp) of the following manufacturer's model & catalogue number. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source: 15W LED Bulb Material: Alu. Sheet body, SS Pipe (Dia-12mm), MS Sheet Base. Total : Dia-295mm, H-750mm Gloria cat no- GLHL-1185 Energy+-EPHL-28061 Asha Cat No. ACS-CP 1312Crescent-CML-42 or equivalent.[PWD-6.1.1.7]	each	2,043.22	2,043.22	2,040.14	2,040.14
8.10.31	PENDENT LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing of the fancy pendent light Fittingswith carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc (except lamp) of the following manufacturer's model & catalogue number. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source: 15W LED Bulb, Material: Alu. Sheet body, MS Sheet Base. Total : Dia-275mm, Height-750mm Gloria cat no- GHPL-1178 Energy+ EPHL-28060 Asha Cat No. ACS-CP 1344 Crescent-CMLI-C101881 1 (A)or equivalent. [PWD-6.1.1.6]	each	1,727.69	1,727.69	1,725.64	1,725.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.32	SINGLE TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty)Light source 20W LED T-8 tube Material: MS Sheet, PC Cover & Plastic GrillL-1340mm B-104mm H-55mm Gloria cat no-GTF(LED)892x 1x 20 w Energy + EPIL-4305 Cosmo Cat no-BDTCL-TLF-06 Asha Cat No. ACS-TLS 307x1x40W Crescent-CTLS-225x1x40 Wattor equivalent.[PWD-6.6.1.5]	each	1,854.11	1,854.11	1,851.03	1,851.03
8.10.33	SINGLE TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty)Light source 20W LED T-8 tube Material: MS Sheet, Alu SheetL-1582mm B-80mm H-85 Gloria cat no-GTF-875x 1x 20 W Energy+EPIL-43004 Cosmo Cat no-BDTCL-TLF-10 Asha Cat no-ACS –TLS-1199 Crescent-CTLS-94x2x40 Wattor equivalent.[PWD-6.6.1.8]	each	1,425.53	1,425.53	1,422.44	1,422.44
8.10.34	SINGLE TUBE LIGHT FITTINGS(LED) Supply & fixing LED tube & panel light fittings of following specifications:Luminous efficacy: 100 lm/W(minimum)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver : MEANWELL/OSRAM / ENERGY+/ SIGNIFY(PHILIPS) or equivalent IEC standard, LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Light source 20W LED T-8 tube Material: MS Sheet, PC/ABS Cover & GrillL-1340mm B-165mm H-55mm Gloria cat no- GTF (LED)-892x2x20 w Energy+EPLE-43003 Asha Cat No. ACS-TLS 307x2x18W (4') Crescent-CTLS 225or equivalent.[PWD-6.6.2.7]	each	2,250.83	2,250.83	2,248.78	2,248.78
8.10.35	SINGLE TUBE LIGHT FITTINGS Providing & fixing the 4' x 40 watt tube light Fittings with superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty)Light sourceT-8 LED tube Material: MS Sheet Gloria cat no- GTF (LED)-973x2x20 W Energy+EPTL-43001 Asha Cat No. ACS-TLS 362x2x20W (4') LEDor equivalent [PWD-6.6.1.10]	each	661.89	661.89	659.83	659.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.36	DOUBLE TUBE LIGHT FITTINGS ((LUVER TYPE) Providing & fixing the 4' x 40 watt tube light Fittingswith superior quality electronic driver of one year guarantee, holder, necessary wiring with 2 X 0.4 sq. mm PVC insulated (stranded) flexible FR wire, earth terminal etc. (except lamp). The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: MS Sheet, Aluminium reflector, L-1210 mm B-195 mm, H-70mm Gloria cat no- GTF (LED)-945x2x18 W T-5 Energy+EPTL-1033 Asha Cat No. ACS-TLS 1379x1x20W (4') LED Crescent-CTLS-5041-40 W SURFor equivalent.[PWD-6.6.1.13]	each	1,910.64	1,910.64	1,908.58	1,908.58
8.10.37	FLOOD LIGHT FITTINGS (LED) Supply & fixing LED flood light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium Alloy Aluminium reflector, Heat proof glass/PolycarbonateModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).50W Gloria Cat no-GLFL-914 Energy+ cat no-EPFDL-17001 -(50W) Cosmo cat no-BDTCL-LFDL-01Adex-AD FLE 50W830 Asha cat No-ACS-LFL-2155- (50 W) Pasha Cat no PE FLL0005054/50W or equivalent.[PWD-6.9.3.1]	each	3,745.22	3,745.22	3,743.17	3,743.17
8.10.38	FLOOD LIGHT FITTINGS (LED) Supply & fixing LED flood light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium Alloy Aluminium reflector, Heat proof glass/PolycarbonateModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).100 W Gloria Cat no-GLFL-902 Energy+ cat no-EPFDL-17001 (100 W) Cosmo cat no-BDTCL-LFDL-02Adex-AD FLE 100W830 Asha cat No-ACS-LFL-2155- (100 W)or equivalent. [PWD-6.9.3.2]	each	6,142.00	6,142.00	6,138.92	6,138.92
8.10.39	FLOOD LIGHT FITTINGS (LED) Supply & fixing LED flood light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium Alloy Aluminium reflector, Heat proof glass/PolycarbonateModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).10 W Gloria Cat no-GLFL-905 Energy+ cat no-EPFDL-17001 Cosmo cat no-BDTCL-LFDL-04Adex-AD FLE 150W865 Asha cat No-ACS-LFL-2156- (150 w)or equivalent. [PWD-6.9.3.3]	each	9,609.72	9,609.72	9,607.67	9,607.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.40	FLOOD LIGHT FITTINGS (LED) Supply & fixing LED flood light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium Alloy Aluminium reflector, Heat proof glass/PolycarbonateModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).200 W Gloria Cat no-GLFL-911 ENERGY + model no - EPFDL- 17011/ 200 W Cosmo cat no-BDTCL-BFDL-03Adex-AD FLE 200W865 Asha Cat no-ACS-LFL-2160 (200 watt) Crescent cat no-CFLD-024-200 Wor equivalent. [PWD-6.9.3.4]	each	12,239.81	12,239.81	12,236.72	12,236.72
8.10.41	CELLING CONCEALED LIGHT FITTINGS (LED) Supply & fixing spot/Panel LED light fittings of following specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min),ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Alu Sheet/Aloy, MS Sheet, Acrylic, Aluminium reflector Gloria-GCDL-603 Energy+ EPCSL-6012(single) Cosmo Cat No. BDTCL- CSL-06 Asha Cat No. ACS-LS 1523 (1)or equivalent.9W[PWD- 6.5.2.16.1]	each	1,570.44	1,570.44	1,567.36	1,567.36
8.10.42	CELLING CONCEALED LIGHT FITTINGS (LED) Supply & fixing spot/Panel LED light fittings of following specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min),ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy (thick-2.5mm), Alu reflector, GlassSize: 115*115mm GLORIA cat. no.- GCDL-332 (9 W) Energy + EPCSL-6071 Cosmo cat no-BDTCL-CSL-03 (9W)Adex-AD SLM 8W 830/840 Asha Cat No. ACS-LS 1596or equivalent. [PWD- 6.5.2.7]	each	1,786.28	1,786.28	1,783.19	1,783.19

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.43	CELLING CONCEALED SPOT LIGHT FITTINGS (LED) Supply & fixing spot/Panel LED light fittings of following specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min), ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy Acrylic , Aluminium reflector GLORIA Cat No GCDL 389 Energy+ EPCSL-6072 Cosmo Cat No. BDTCL- CSL-05 Asha Cat No. ACS-LS 1512 (2) or equivalent.2x6W[PWD-6.5.2.15.1]	each	1,570.44	1,570.44	1,567.36	1,567.36
8.10.44	GARDEN & GATE LIGHT FITTINGS (LED) Supply & fixing LED garden & gate light fittings of following specifications:Luminous efficacy: 80 lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Watt: 15W LED bulb, Voltage: AC165-265VWith Dia: 210 mm & Height :475 mm Material: Aluminium alloy, MS sheet painted with epoxy powder paint & acrylicCast Aluminium thickness : minimum 5 mm Gloria cat no- GGL-307 Energy+EPGL-16041 Asha-ACS-GL-9307 Crescent-CGL -74 LED: 15Wor similar product of SUNKO, ANNYESHA, FLOS or equivalent[PWD-6.7.2.8]	each	3,209.75	3,208.72	3,204.61	3,204.61
8.10.45	GARDEN & GATE LIGHT FITTINGS (LED) Supply & fixing LED garden & gate light fittings of following specifications:Luminous efficacy: 80 lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Watt: 7W , Voltage: AC85-265V, Material: Aluminium alloy + AcrylicWith Dia: 95 mm & Height :450 mm (Acrylic Height: 95 mm minimum)Cast Aluminium thickness : minimum 3mm Gloria cat no- GGDL-316 Energy+EPGL-24017 Cosmo-BDTCL-LBL-01 Asha ACS-LGL-2723or similar product of SUNKO, ANNYESHA, FLOS or equivalent [PWD- 6.7.2.9]	each	2,869.56	2,867.50	2,864.42	2,864.42

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.46	GARDEN & GATE LIGHT FITTINGS (LED) Supply & fixing LED garden & gate light fittings of following specifications:Luminous efficacy: 80 lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Watt: 7W , Voltage: AC85-265V, Material: Aluminium alloy, Acrylic, SS Pipe With Dia: 110 mm & Height :600 mmCast Aluminium thickness : minimum 3mm Gloria-GGDL-312 (S) 6W Energy+EPGL-16009 Asha ACS-BL-902 Cast Aluminium Crescent-CGL-4120 B WH-S or equivalent . [PWD- 6.7.2.10]	each	2,869.56	2,867.50	2,864.42	2,864.42
8.10.48	GARDEN & GATE LIGHT FITTINGS (LED) Supply & fixing LED garden & gate light fittings of following specifications:Luminous efficacy: 80 lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤ Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Watt: 12W LED bulb, Voltage: AC165-265V, Material: Aluminum alloy painted with epoxy powder paint, Acrylic.H-800mm, Dia-210mmCast Aluminum thickness : minimum 6mm Gloria cat no- GGDL-334 Energy+EPGL-24034 Cosmo BDTCL-LBL-11 Asha ACS-LGL-2732or similar product of SUNKO, ANNYESHA, FLOS or equivalent[PWD- 6.7.2.12]	each	8,827.58	8,826.56	8,822.44	8,822.44
8.10.49	GARDEN & GATE LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing the garden / gate light Fittings with frosted fancy glass cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable ,and ingress protection (IP 55) and polished brass base suitable for Fittings with 38.1 mm. dia G.I pipe post. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). With Dia-235 mm,Height-900 m Material: Cast Aluminium, Acrylic ,MS PipeCast Aluminium thickness: minimum 5mm MS Pipe dia: 2.5" & thickness: minimum 2 mm Gloria Cat no-GBL-263 Energy+EPGL-2429 Cosmo Cat no-BDTCL-GDL-03 Asha cat no-ACS BL-2954 Crescent-CGL-36 or similar product of SUNKO, ANNYESHA, FLOS or equivalent [PWD- 6.7.1.3]	each	3,272.44	3,272.44	3,270.39	3,270.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.50	GARDEN & GATE LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing the garden / gate light Fittings with frosted fancy glass cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable ,and ingress protection (IP 55) and polished brass base suitable for Fittings with 38.1 mm. dia G.I pipe post. The fittings shall be suitable for use of LED lamp and complete sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). With Dia-293 mm,Height-940mm Material: Cast Aluminium, Acrylic ,MS PipeCast Aluminium thickness: minimum 5mm MS Pipe dia: 2.5" & thickness: minimum 2mm Gloria Cat no-GBL-284 Energy+EPGL-16034 Cosmo Cat no-BDTCL-GDL-03 Asha cat no-ACS BL-9307 Crescent-CGL-74or similar product of SUNKO, ANNYESHA, FLOS or equivalent [PWD- 6.7.1.4]	each	3,272.44	3,272.44	3,270.39	3,270.39
8.10.51	WATER TIGHT LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing the water tight light Fittingsof following manufacturers model & catalogue number suitable U-type glass cover (minimum total height of Fittings310mm), G.I wire net guard, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete. suitable for LED lamp (except lamp) as per sample accepted / approved by the Engineer-in-charge (with 2 years warranty). Light source 9W LED Bulb Gloria Cat no-GLOD-1439 Energy + EPSL 23001 Cosmo cat no-BDTCL-WSL-07 Asha Cat No. ACS-BF WT 261or equivalent. [PWD- 6.10.1.3]	each	889.03	889.03	886.97	886.97
8.10.52	WATER TIGHT LIGHT FITTINGS (EXCEPT LAMP) Providing & fixing the water tight light Fittingsof following manufacturers model & catalogue number suitable U-type glass cover (minimum total height of Fittings310mm), G.I wire net guard, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete. suitable for LED lamp (except lamp) as per sample accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy Aluminium Sheet, MS sheet, GI wire, Glass Gloria Cat no-GWT-706 Asha Cat No. ACS-BF WT 520 NET Crescent-CML-26or equivalent . [PWD- 6.10.1.2]	each	1,422.44	1,422.44	1,420.39	1,420.39
8.10.53	STREET LIGHT FITTINGS (SODIUM/MHL) Providing & fixing of the street light Fittingswith high pressure sodium lamp consisting of epoxy powder coated grey colour Aluminium die-casting body, high purity anodized Aluminium reflector, terminal resistant tempered frosted glass cover, high pressure sodium lamp, E-40 / E-27 holder, Ignitor, mfd capacitor, control gear, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable & mountable on 38.1 mm (1.5") dia G.I pipe bracket etc. complete. (with lamp) as per sample accepted / approved by the Engineer-in-charge (with 2 years warranty). Gloria Cat no: GLST.1217, ENERGY+ model no - EPSTL 23025 Cosmo BDTCL-MSTL-02 Crescent-CST- 1010-150 Asha Cat No. ACS-RL 3747 (CFL)150W or equivalent. [PWD-6.8.2.1]	each	7,061.86	7,060.83	7,057.75	7,057.75

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.54	STREET LIGHT FITTINGS (LED) Supply & fixing LED street light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent.LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium aloyModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). GLORIA cat No- GLST. 1205 Energy+ EPSTL-18001 Cosmo BDTCL-LSTL-02Cosmo BDTCL-LSTL-03 Asha Cat No. ACS-LSL 2343 Muspana Cat No MPSL100DLor equivalent products of SUNKO/Annyesha/SHWASH/Crescent or equivalent foreign made.150 W[PWD- 6.8.3.1.2]	each	11,664.25	11,663.22	11,659.11	11,659.11
8.10.55	STREET LIGHT FITTINGS (LED)(With Daylight sensor) Supply & fixing LED street light fittings of following specifications:Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95Colour Rendering Index(Ra) :70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent.LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Material: Aluminium aloyModel & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).(Daylight sensor) Gloria Cat. No: GLST.1249 Energy+ EPSTL-18008 Asha Cat No. ACS-LSL 2352 Muspana Cat N0 MPSL250W MLDor equivalent SUNKO/ Annyesha/ SHWASH/ Crescent or equivalent foreign made product of 250W.[PWD- 6.8.3.2]	each	32,663.81	32,661.75	32,658.67	32,658.67
8.10.56	STREET LIGHT FITTINGS (LED) Supply & fixing LED street light fittings of following specifications: Luminous efficacy: 100lm/w(minimum), Power Factor: minimum 0.95 Colour Rendering Index (Ra) :70≤Ra<85 Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent. LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent. Colour temperature: 3500K-6500K (Warm-White) Material: Aluminium aloy Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Gloria Cat. No: GLST.1224 Energy+ EPSTL-18011 Cosmo Cat No. BDTCL- LSTLSMD-01 Asha Cat No. ACS-LSL 2315 Muspana Cat No MPSL50/100/150/200ML or equivalent products of SUNKO/Annyesha/SHWASH/Crescent or equivalent foreign made. 200W [PWD-6.8.3.3.4]	each	18,657.25	18,656.22	18,652.11	18,652.11

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.57	PANEL LIGHT FITTINGS (LED) Supply & fixing LED tube & panel light fittings of following specifications: Luminous efficacy: 100 lm/W(minimum) Power Factor: minimum 0.95 Colour Rendering Index (Ra): i) For Residential building Ra≥80 ii) For office and other types of buildings 70≤Ra<85" Driver: MEANWELL/OSRAM / ENERGY+/ SIGNIFY(PHILIPS) or equivalent IEC standard, LED chips: EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent. Colour temperature: 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Square panel Material: Aluminium Alloy Acrylic Gloria Cat no-CPL-703 Energy+EPLLED-2001/2002 Cosmo Cat no-BDTCL-LPL-01 Asha Cat no-ACS-LTLS-1651 Adex Cat no-ADPLS-36 W 840 Megaman-MQL1030 Walton: WLED-PL-ECO Pasha Cat No- PE-606060/48W or equivalent. 48 W [PWD-6.6.2.2.2]	each	3,328.97	3,328.97	3,326.92	3,326.92
8.10.58	Supply & fixing LED tube & panel light fittings of following specifications: Luminous efficacy: 100 lm/W(minimum) Power Factor: minimum 0.95 Colour Rendering Index (Ra): i) For Residential building Ra≥80 ii) For office and other types of buildings 70≤Ra<85 Driver: MEANWELL/OSRAM / ENERGY+/ SIGNIFY(PHILIPS) or equivalent IEC standard, LED chips: EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent. Colour temperature: 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty). Material: Aluminium Alloy ABS Plastic GLORIA cat No- GTF (LED). 774 Energy+EPTL-1023 Cosmo Cat no-BDTCL-LE-xTS-01 Adex -AD BL 840 Asha Cat no-ACS –LTLS-1635 Megaman-MXL2027 or equivalent. 4' x 36 W [PWD-6.6.2.1.4]	each	1,665.00	1,665.00	1,661.92	1,661.92

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.10.59	ROUND PANEL LIGHT FITTINGS (Round panel LED) Supply & fixing spot/Panel LED light fittings of following specifications:Luminous efficacy: i)For Spot/Bracket LED Light Fittings: 80 lm/W (min),ii)For Panel/Tube Light Fittings: 100 lm/W (min)Power Factor: minimum 0.95Colour Rendering Index(Ra) :i) For Residential building Ra≥80ii) For office and other types of buildings 70≤Ra<85Driver: Should be of IEC standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS) or equivalent LED chips :EPISTAR / OSRAM / SIGNIFY(PHILIPS) / CREE / BRIDGELUX or equivalent.Colour temperature : 3500K-6500K (Warm-White) Model & sample to be accepted / approved by the Engineer-in-charge (with 2 years warranty).Round panel (surface type) Material: Alu Aloy, Acrylic Gloria Cat No-GSDL-513 Energy + cat No-EPPLLED-2006 Cosmo cat no-BDTCL-LSRPL-01 Adex-AD SDL 830/840/865 Asha Cat no- ACS LPL-1451 Megaman-MXTL1013-Y Walton WLED-DSPLR-200-UL or equivalent. [PWD- 6.5.2.1]					
8.10.59.1	12 W, Approximate Dia -165 mm	each	971.25	971.25	968.17	968.17
8.10.59.2	18 W, Approximate Dia -218 mm	each	1,097.67	1,097.67	1,094.58	1,094.58
8.10.59.3	24 W, Approximate Dia - 297 mm	each	1,387.50	1,387.50	1,384.42	1,384.42
Section-11: Electric Bulb/Lamp						
8.11	LED BULBS & TUBE LAMPS Supply & fixing of the following LED bulbs & tube lamps manufacturers by OSRAM / SIGNIFY(PHILIPS) / ENERGYPAC / CBE / CORONA / HAVELLS / GE / EDISION / EASTERN / PRODIP / MEP / METRO /Megaman/ Walton/ HARMONICS / SUPERSTAR/ TRANSTEC / ENERGY+ / Gloria / Adex / PASHA / SQ / Click / COSMO or equivalent brand accepted / approved by the Engineer-in-charge (with 2 years warranty).[PWD-6.20]					
8.11.01	3 watt LED bulb	each	157.25	157.25	157.25	157.25
8.11.02	5 watt LED bulb	each	164.44	164.44	164.44	164.44
8.11.03	7 watt LED bulb	each	214.81	214.81	214.81	214.81
8.11.04	9 watt LED bulb	each	239.47	239.47	239.47	239.47
8.11.05	12 watt LED bulb	each	302.17	302.17	302.17	302.17
8.11.06	15 watt LED bulb	each	327.86	327.86	327.86	327.86
8.11.07	18 watt LED bulb	each	390.56	390.56	390.56	390.56
8.11.08	20 watt LED bulb	each	416.25	416.25	416.25	416.25
8.11.09	30 watt LED bulb	each	718.42	718.42	718.42	718.42
8.11.10	600 mm / 2'- 9 / 10 watt-T5 AC LED tube Lamp	each	403.92	403.92	403.92	403.92
8.11.11	600 mm / 2'- 9 / 10 watt-T8 AC LED tube Lamp	each	440.92	440.92	440.92	440.92
8.11.12	1200 mm / 4'- 18 / 20 watt-T5 AC LED tube Lamp	each	478.94	478.94	478.94	478.94
8.11.13	1200 mm / 4'- 18 / 20 watt-T8 AC LED tube Lamp	each	504.64	504.64	504.64	504.64
8.11.14	4'(18W) 25 mm LED Tube Light	each	416.25	416.25	416.25	416.25
8.11.15	2'(9W) 25mm LED Tube Light	each	365.89	365.89	365.89	365.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Section-12: Electric Motor/Pump						
8.12.1	CENTRIFUGAL PUMP MOTOR SETSINGLE STAGE (SINGLE PHASE)(For lower capacity/smaller household requirement) Providing of single stage 2800-2900 RPM monoblock type Centrifugal water pump motor set (reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B/ DIN/ NEMA/ IEC/ BS/ VDE/ JIS/CEI 2-3/ CSA/ GS/ SONCAP/ ROHS & ISO 9001 (Quality) ISO 14001 (Environment and Safety) standard of following capacity suitable for operation at single phase, 230 V ± 5 %, 50 Hz AC having insulation: B & protection: IPX4 (minimum) & CE certified . Country of Manufacture: Bangladesh/ China/ Vietnam/ Malaysia as per sample accepted / approved by the Engineer-in-charge. [PWD-5.1]					
8.12.1.1	HP- 0.5Discharge (liter/min)- 10-80Head (meter)- 22-14Suction dia (mm)- 25Delivery dia (mm)- 25[PWD-5.1.1]"	set	6,602.44	6,602.44	6,602.44	6,602.44
8.12.1.2	HP-1Discharge (liter/min)- 10-100Head (meter)- 35-16Suction dia (mm)- 25Delivery dia (mm)- 25[PWD-5.1.3]"	set	13,304.58	13,304.58	13,304.58	13,304.58
8.12.1.3	HP-1.5Discharge (liter/min)- 10-120Head (meter)- 39-20Suction dia (mm)- 32Delivery dia (mm)- 25[PWD-5.1.6]"	set	18,412.64	18,412.64	18,412.64	18,412.64
8.12.1.4	HP-2Discharge (liter/min)- 50-220Head (meter)- 36-23Suction dia (mm)- 40Delivery dia (mm)- 25[PWD-5.1.7]"	set	21,186.61	21,186.61	21,186.61	21,186.61
8.12.2	SINGLE STAGE (THREE PHASE)Providing of single stage 2800-2900 RPM centrifugal water pump motor set monoblock type (reservoir to overhead tank) manufactured according to relevant BDS standard and ISO 9906:2012, GRADE 3B / DIN / NEMA / IEC / BS / VDE / JIS & ISO 9001:2015 standard. CE certified / UL listed of following capacity suitable for operation at 3- phase, 400 V ± 5 % 50 Hz AC having Insulation: Class F & Protection: IPX5 (minimum) manufactured by company having minimum 30 years of manufacturing experience in their own industry.Country of Manufacture: EU Countries/ USA/ Japan/UK, as per sample accepted / approved by the Engineer-in-charge.[PWD-5.3]"					
8.12.2.1	HP-3 Discharge (liter/min)- 100-500Head (meter)- 32-14Suction dia (mm)- 50Delivery dia (mm)- 50"	set	50,823.61	50,823.61	50,823.61	50,823.61
8.12.2.2	HP-4 Discharge (liter/min)- 67-33Head (meter)- 55-49Suction dia (mm)- 50Delivery dia (mm)- 32"	set	88,027.11	88,027.11	88,027.11	88,027.11
8.12.2.3	HP-5.5 Discharge (liter/min)- 100-417Head (meter)- 45-27Suction dia (mm)- 50Delivery dia (mm)- 32"	set	98,494.00	98,494.00	98,494.00	98,494.00
8.12.2.4	HP-7 Discharge (liter/min)- 100-900Head (meter)- 46-15Suction dia (mm)- 50Delivery dia (mm)- 50"	set	134,562.83	134,562.83	134,562.83	134,562.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
8.12.3	SUBMERSIBLE PUMP MOTOR SET (For deep tube well) Providing of following capacity multistage Bore-well Submersible water Pump Motor set manufactured according to relevant BDS standard and ISO 9906:2012, Grade 3B / DIN / NEMA / IEC / BS / VDE / JIS & ISO 9001:2015 standard. CE certified / UL listed comprising of 2900 RPM, single/ three phase submersible rewindable type (oil / water cooled) motor having insulation: Class F & Protection: IP68 (minimum), suitable for operation at 230 /400 V ± 5%, 50 Hz AC supply, non-return valve with 10 meters long marine cable (total required length of marine cable including these 10 meters shall be in a single length) etc. complete in all respect manufactured by company having minimum 30 years of manufacturing experience. Country of Manufacture: EU Countries/ USA/ Japan/UK, in their own industry as per sample accepted / approved by the Engineer-in-charge. [PWD-5.7]					
8.12.3.1	HP-1 Discharge (liter/min)- 13-53Head (meter)- 81-35Tube-well dia (mm)- 100Delivery dia (mm)- 31.25[PWD-5.7].3"	set	72,514.86	72,514.86	72,514.86	72,514.86
8.12.3.2	HP-1.5 Discharge (liter/min)- 10-58Head (meter)- 104-30Tube-well dia (mm)- 100Delivery dia (mm)- 31.25[PWD-5.7.5]"	set	76,929.17	76,929.17	76,929.17	76,929.17
8.12.3.3	HP-2 Discharge (liter/min)- 40-200Head (meter)- 58-21Tube-well dia (mm)- 150Delivery dia (mm)- 31.25[PWD-5.7.6]"	set	155,875.86	155,875.86	155,875.86	155,875.86
Section-13: Sub-Station						
8.13	WATER HEATER / GEYSER Providing & installation of following capacity electrically operated water heater containing blue diamond inner tank made of minimum 14 SWG, magnesium anode rod , non- magnetic rust proof galvanized steel & outer jacket, body made of minimum 22 SWG mild steel sheet & 20 mm polyurethane thermal insulation with automatic thermostatic switch with suitable wattage range of stainless steel Incoloy 800 glass line immersion heating element , thermal cut-out , on-off indicating lamp, Earth Leakage Circuit Breaker (ELCB), safety valve 0.8 MPa, inlet and outlet water connection pipe including fixing accessories all complete as required with adequate safety measures in conformity with codes and specification of international standards. Suitable for use in tropical country like BANGLADESH. Model and sample to be approved by competent authority.[PWD-21.16]					
8.13.1	45 liter / hr. (1000 ~ 1500 watt) wall mounting type.[PWD-21.16.2]	each	10,215.08	10,206.86	10,171.92	10,171.92
8.13.2	65 liter / hr. (1500 ~ 2000 watt) wall mounting type.[]PWD-21.16.3	each	11,476.17	11,467.94	11,433.00	11,433.00

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 9 : Termite Treatment Works						
9.01	Supplying anti termite chemicals such as Heptachlor-40 WP or equivalent Govt. registered approved chemicals and mixing the same with pure water in required proportion (For-Heptachlor-40 WP-1 Kg. of Heptachlor powder in 79 litres of pure water and for other chemicals, mixed according to manufacturer's specification) and spraying the emulsified mixture @5 litres per square metre of soil surface by hand spray or by any other means to the sides and bottom of the foundation trench and over plinth filling or floor bed etc. all complete as per direction of the E-I-C.	sqm	25.66	25.29	24.72	24.72
9.02	Extra cost for supplying anti termite chemicals and mixing the same with pure water as per specification in item No. 9.1 and using the same emulsified water as mixing water in Cement Sand mortar of 1st class brick works (1:6) in foundation & upto plinth etc. all complete as per direction of the E-I-C	cum	270.60	266.02	259.14	259.14
9.03	Supplying anti termite chemicals and mixing the same with pure water as per specification in item No. 9.1 and spraying the emulsified mixture over both outside and inside back fill in foundation trenches @15 litres per sq. m. of the vertical surface area of the foundation wall etc. all complete as per direction of the E-I-C. (The maximum depth of the back fill to be treated is 500mm and the measurement for depth should not be given more than 500mm).	sqm	49.78	49.28	48.52	48.52
9.04	Anti-termite treatment in existing structures by making holes at a required depth of 225mm from the existing finished FL/GL inside and outside the building and applying anti termite chemicals, such as Heptachlor 40 WP or Dursbane 20 EC or Pyrifox 20 EC or equivalent Govt. registered approved chemicals into the holes preparing chemical solution mix with water at the ratio of chemical: water 1:40 maintaining a dosage rate of 25 ml per hole including supplying all materials and making and repairing the holes etc. all complete as per direction of the E-I-C.	each	78.56	77.15	72.80	72.80
9.05	Trench treatment for protection against incoming termites to the establishment through underground by making trench around existing building/structures at a required depth of 0.76m from existing level supplying anti termite chemicals such as Heptachlor 40 WP or Pyrifox 20 EC or Dursbane 20 EC or Dieldrin or equivalent Govt. registered approved chemicals preparing solution mix with water at the ratio of chemical: water 1:40, applying the solution into trench with the help of a chemical sprayer in three layers and phases including earth filling in trench etc. all complete as per direction of the E-I-C.	m	185.32	181.37	170.04	170.04
9.06	Fumigation treatment (Pest Control) against mosquitoes, flies, bees, cockroaches, spiders, silver fishes, lizards and other common pests and insects in wooden walls, brick walls, floors, doors and windows, furniture fanlight, carpets, records, curtains, electrical conduits etc. with the application of fumigants such as DDVP-100 EC, or DENCAVAPON-100 EC, or NEOCIDOL-60 EC or similar chemically equivalent govt. registered pest control products, preparing chemical solution mix with water at the ratio of chemical: water 1:100 applying with the help of electrically operated jet fogging machine, swing fog, Dina fog, pneumatic hand sprayer, knap sak hand sprayer at air tight position etc. all complete as per direction of the E-I-C. After fumigation the surface will remain at air tight position at least for 3 (three) hours (Volume of the room will be considered towards measurement).	cum	11.99	11.97	11.95	11.95
9.07.01	Treatment of all wooden door frames, window frames, wood paneling etc. by using TIMBERIN (an oil-based wood treatment formulation suitable for wood, plywood, partex, hard board etc.) on both surfaces by brush-on-method etc. all complete as per direction of the E-I-C..	sqm	116.78	116.30	114.39	114.39

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1	2	3	4	5	6	7
9.07.02	Treatment of wooden fittings irrespective of infestation status, all wooden fittings like door/window frames, wall cabinets etc. to be treated by injecting 100 ml Dursban/pyrifos, 4% solution of ZOEC formulation per drill hole in between walls and frames etc. all complete as per direction of the E-I-C. Each door/window/cabinet will require 10 Nos. drill hole treatment. If the door/window is proportionately larger no drill hole treatment may be required. Drill bit to be used is 5mm dia and hole to be made should have a depth of 75mm to 100mm.	each	254.34	253.33	249.29	249.29
9.08	Treatment of electric system by inserting a plucking materials (cotton, foam etc.) soaked in oil based anti-termite chemical TIMDERIN to a electric switch board point for all floors etc. all complete as per direction of the E-I-C..	each	632.05	623.52	589.43	589.43
9.09	Treatment of infested walls of old building (generally the thickness of wall 375mm to above) by using chemical (1:40) Dursban ZOEC/pyrifos ZOEC solution, including drilling holes in walls (15mmx150mm) with heavy-duty drilling machine, making and applying the solution to holes as per direction etc. all complete for all floors as per direction of the E-I-C.	sqm	1,140.02	1,137.38	1,126.85	1,126.85
9.10	Destruction of termite nest around an infested building, tree stumps in lawn with the treatment of Heptachlor by excavation soil in affected area upto a depth of 1.5 metre, mixing the Heptachlor with the soil and laying the same in same place etc. all complete as per direction of the E-I-C.	each	1,642.92	1,629.29	1,574.78	1,574.78
9.11	Chemical for Anti-termite treatment : Supplying and applying specified type of chemicals such as Pestearthy or equivalent best quality, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of Anti-termite inside (Floor) of building & outside (Barrier) of building : a. Inside (Floor) of building : At first fill the floor with sand and soil. Then spread Pestearthy equally on the surface of the floor. 1 kg Pestearthy spread 300 sft of coverage area. b.Outside (Barrier) of building : Dig the canal in the soil outside and attached to the external wall and make a surrounding canal of 600mm wide and 600mm deep. Spread Pestaerthy equally on the bottom layer of the canal. Fill up half of the canal with soil or sand. Then spread Pestearthy as 2nd layer the half-filled canal by the same way.After that fill up the 3/4 of the canal with soil or sand and spread Pestearthy as 3rd or final layer on the surface and fill the rest part of the canal with sand, soil, cement concrete etc. Pestearthy 1 kg spread surrounding canal of 3 layers by 12.20m or doges mentioned in the manufacturer's brochures and strictly following the recommendation and instruction, providing safety provision in all respect etc. All complete as per direction of the E-I-C.	kg	2,324.23	2,323.98	2,323.60	2,323.60

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 10 : Tube Well Works						
	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
10.01	Note: Tender for test & observation well must be called before main production well. Tender for main production well will then be called on the basis of required data obtained from the test well. Requirements of water must be the guiding factor for dimensioning the main well.SINKING OF 38 mm DIA TEST AND OBSERVATION WELL: Mobilization of test boring or observation well: Transportation of materials, equipments, tools and plants and boring rig to work site. Construction of derrick and dismantling the same. Cleaning the site after completion of the work accepted by the Engineer-in-charge. (PWD BW 27.1)	set	8,071.14	8,071.14	8,071.14	8,071.14
10.02	SINKING OF 38 mm DIA TEST AND OBSERVATION WELL: Boring by using 100 mm dia cutter and 40 mm dia heavy type G.I pipe (wall thickness 2.9 mm, outside diameter min 47.8 mm, weight 3.517 kg/m, capable to withstand 50 kg/cm2 pressure) and other equipments capable of drilling up to a depth of 500 meter by water jet system through all sorts of soil strata providing protection of caving by supplying necessary casing pipe. Collection of soil samples at every 3 meter interval and at every change of soil strata and preserving them in a controlled environment for analysis and laboratory test. Finally, withdrawal of boring and casing pipes etc. complete and accepted by the Engineer-in-charge.					
10.02.1	From 0.0 m to 50 m = 50 m (PWD BW 27.2.1)	m	201.44	201.44	201.44	201.44
10.02.2	Above 50 m to 100 m = 50 m (PWD BW 27.2.2)	m	232.28	232.28	232.28	232.28
10.02.3	Above 100 m to 152 m = 52 m (PWD BW 27.2.3)	m	267.22	267.22	267.22	267.22
10.02.4	Above 152 m to 200 m = 48 m (PWD BW 27.2.4)	m	307.31	307.31	307.31	307.31
10.02.5	Above 200 m to 250 m = 50 m (PWD BW 27.2.5)	m	352.53	352.53	352.53	352.53
10.02.6	Beyond 250 m (PWD BW 27.2.6)	m	405.97	405.97	405.97	405.97
10.03	Installation of tube-well fixture for observation well: Supplying and lowering of 40/38 mm inside dia best quality uPVC pressure tube well pipe (specific gravity 1.35 - 1.45, wall thickness 2.5 mm - 3.0 mm capable to withstand a minimum hydrostatic pressure of 170 psi for 1 hr). Fitting and fixing in position with all accessories, uPVC sand trap of length 3.00m with uPVC strainer of desired slot installing in or at mid depth of the most suitable water bearing strata, 38 mm dia, best quality G.I. pipe of length 1.52 m with M.S. welded flat bar welded on each side to prevent from rotation up to desired depth, fitting, fixing the best quality no. 6 C.I. head hand-pump etc including the cost of solvent cement, socket adapter, filling medium sand up to 18.00 m above strainer and the remaining portion with available soil from boring etc. complete as per standard specification and accepted by the Engineer-in-charge.					
10.03.1	Fitting & fixing of no. 6 Hand-pump set including all necessary accessories etc (PWD BW 27.3.1)	set	3,556.11	3,550.97	3,531.44	3,531.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.03.2	Supplying and fitting 38/40 mm dia heavy type G.I pipe conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe having wall thickness 2.9 mm, weight 3.517 kg/m capable to withstand 50 kg/cm2 hydraulic pressure (PWD BW 27.3.2)	m	1,045.25	1,041.14	1,024.69	1,024.69
10.03.3	38/40 mm dia water grade uPVC pipe having wall thickness 2.5 mm - 3.00 mm (PWD BW 27.3.3)	m	226.11	225.08	220.97	220.97
10.03.4	38/40 mm dia water grade uPVC strainer having wall thickness 2.5 mm -3.00 mm (PWD BW 27.3.4)	m	299.08	297.03	289.83	289.83
10.03.5	38/40 mm dia uPVC socket adapter (PWD BW 27.3.5)	each	135.67	134.64	132.58	132.58
10.03.6	Best quality 38 mm dia uPVC cap (PWD BW 27.3.6)	each	109.97	109.97	106.89	106.89
10.03.7	Supplying, fitting & fixing tube-well log describing technical information of the tube-well (PWD BW 27.3.7)	each	5,145.06	5,145.06	5,145.06	5,145.06
10.03.8	Filling the top 0.6 meter of the bore hole around the top pipe with sanitary seal of 1:2:4 (Cement: 1.2 FM sand: 20 mm downgraded brick chips) concrete (PWD BW 27.3.8)	each	72.97	72.97	70.92	70.92
10.04	Complete development of the tube well to obtain sand and turbidity free water at a satisfactory yield confirmed by tests as per specification and accepted by the Engineer-in-charge. Water sample must be taken from 3 separate aquifers from three tube-wells					
10.04.1	Wells up to 200 meter depth					
10.04.1.1	For 1 No. test tube-well (PWD BW 27.4.1.1)	each	9,080.42	9,080.42	9,080.42	9,080.42
10.04.1.2	For 2 Nos. test tube-wells (PWD BW 27.4.1.2)	each	13,621.14	13,621.14	13,621.14	13,621.14
10.04.1.3	For 3 Nos. test tube-wells (PWD BW 27.4.1.3)	each	18,160.83	18,160.83	18,160.83	18,160.83
10.04.2	Wells beyond 200 meter depth					
10.04.2.1	For 1 No. test tube-well (PWD BW 27.4.2.1)	m	52.42	52.42	52.42	52.42
10.04.2.2	For 2 Nos. test tube-wells (PWD BW 27.4.2.2)	m	78.11	78.11	78.11	78.11
10.04.2.3	For 3 Nos. test tube-wells (PWD BW 27.4.2.3)	m	104.83	104.83	104.83	104.83

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.05	Furnishing design of a production well by testing of water and soil samples from test bores up to 350 m depth collecting samples of water from the best suitable aquifer, filling in sterilized air-tight glass bottles having no air space inside; collecting soil (sand, solids etc) at every 3 m interval and at each change of soil strata from the bores, arranging them in the cell of a box in an orderly manner. Carrying out test of water for (1) pH, (2) CO2 (3) Chloride, (4) Fluoride, (5) Iron, (6) Manganese, (7) Nitrate-Nitrogen, (8)Total alkalinity, (9) Total hardness, (10) Arsenic, (11) Turbidity, followed by test reports along with Bangladesh Standards of potable water and (12) sieve analysis on soils throughout a bore, leading to ascertain the best suitable sustained aquifers, depths and slot sizes of strainer, types and dia of tube well for specific yield, thickness of shrouding around strainer, fineness modulus of shrouding materials, mechanical units (pumps, compressor) for testing and operation of the tube well, maintaining test bore functional till tube well installation, testing etc. is finished, finally filling and sealing the left over test bore permanently, including carrying water and soil samples under direct responsibility of Engineer-in-charge to BRTC, BUET or other reputed laboratory, approved by the authority, submitting the report and design details all complete and accepted by the Engineer-in-charge and maintaining the mobilized tools and plants at site till satisfactory test results are found (if not, next test bore may be executed with the approval of concern S.E. / Design Office)Total No. of test on water: 11 types of test x 1 test bore x one set sample (3 specimen) = 11 Nos. test (each specimen 1.5 liter of water)Sieve analysis: min 9 Nos. Sample x one test x One bore = 9 Nos. test (Samples are of 1 kg dry wt. each)There are about 55 (fifty-five) tests for potable water quality standard according to Bangladesh Environment Conservation Rules-12 (Schedule-3), 1997, under ECA 1995 of Ministry of Environment and Forest. Therefore, additional test/ tests on water or sieve analysis of soil if required, other than the above specified 12 (twelve) tests, may be carried out for public interest as per direction of the design engineer on actual payment including profit, VAT and all other charges.					
10.05.1	Furnishing design considering 1 No. test bore (PWD BW 27.5.1)	set of test	38,716.39	38,716.39	38,716.39	38,716.39
10.05.2	Furnishing design considering 2 Nos. test bores (PWD BW 27.5.2)	set of test	75,302.19	75,302.19	75,302.19	75,302.19
10.05.3	Furnishing design considering 3 Nos. test bores (PWD BW 27.5.3)	set of test	112,953.81	112,953.81	112,953.81	112,953.81
10.06	Disinfections of the well by using minimum 3 kg of bleaching powder of 33% strength or any other disinfectant as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.6)	each	466.61	466.61	466.61	466.61
10.07	Mobilization: Preparation for installation of tube-well and transportation of complete boring equipments, labour and materials to the work site and remove the materials after completion of the works. Installation of drilling rig and accessories, making arrangements for electricity, water, labour shed, site office and stores, digging mud pit etc, leveling, dressing and clearing of the site as per original condition and a testing for discharge using minimum 1000 liter water tub etc. all complete as per specifications and accepted by the Engineer-in-charge.					
10.07.1	For Tube-wells up to 100 meter depth (PWD BW 27.7.1)	set	49,309.69	49,309.69	49,309.69	49,309.69
10.07.2	For Tube-wells up to 200 meter depth (PWD BW 27.7.2)	set	52,831.89	52,831.89	52,831.89	52,831.89
10.07.3	For Tube-wells beyond 200 meter depth (PWD BW 27.7.3)	set	56,354.08	56,354.08	56,354.08	56,354.08

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1	2	3	4	5	6	7
10.08	Preparation and making gravel pack around the tube well fixtures with supply of designed graded pea gravels free from any substance harmful to pipe and health confirmed by test (Passing through #10 mesh and retained on #40 mesh) including sieving, washing etc. complete as per standard specification and accepted by the Engineer-in-charge.(The rate is inclusive of the cost of extra amount required for caving and extra depth below the tube well fixtures, shrouding should not be more than 15 m above the strainer and measurement should be allowed from bottom of the tube-well fixture to top of the gravel pack) (PWD BW 27.8)	cum	5,636.33	5,619.89	5,125.53	5,125.53
10.09	Making a sanitary seal up to a minimum depth of 6 meter from G.L. or as specified including the supply of approved quality of cement, sand and khoa (12 mm down graded) in a ratio of (1:1:5:3) as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.9)	cum	11,518.31	11,468.97	11,248.00	11,259.31
10.10	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and with drawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
10.10.1	From 0.0 m to 50 m = 50 m (PWD BW 27.10.1)	m	983.58	983.58	983.58	983.58
10.10.2	From 50 m to 100 m = 50 m (PWD BW 27.10.2)	m	1,131.58	1,131.58	1,131.58	1,131.58
10.10.3	From 100 m to 152 m = 52 m (PWD BW 27.10.3)	m	1,301.17	1,301.17	1,301.17	1,301.17
10.10.4	From 152 m to 200 m = 48 m (PWD BW 27.10.4)	m	1,496.44	1,496.44	1,496.44	1,496.44
10.10.5	From 200 m to 250 m = 50 m (PWD BW 27.10.5)	m	1,720.50	1,720.50	1,720.50	1,720.50
10.10.6	Beyond 250 m (PWD BW 27.10.6)	m	1,978.47	1,978.47	1,978.47	1,978.47
10.11	Supplying the following tube well fixtures and pipes having density 1350 kg/m3, opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge. Note : Pipe size (Wall Thickness) will be chosen as per table page no:)					
10.11.1	Best quality 50 mm dia uPVC cap (PWD BW 27.11.1)	each	181.92	180.89	176.78	176.78
10.11.2	Unknown...					
10.11.2.1	50 mm dia water grade (Class D) uPVC blind pipe/sand trap of wall thickness 3.1 mm to 3.7 mm (PWD BW 27.11.2.1)	m	270.31	270.31	266.19	266.19
10.11.2.2	50 mm dia water grade (Class E) uPVC blind pipe/sand trap of wall thickness 3.9 mm to 4.5 mm (PWD BW 27.11.2.2)	m	340.19	339.17	336.08	336.08
10.11.3	Unknown...					
10.11.3.1	50 mm dia strainer of any slot as per design made with grade(Class D) uPVC pipe of wall thickness 3.1 mm to 3.7 mm (PWD BW 27.11.3.1)	m	362.81	360.75	350.47	350.47
10.11.3.2	50 mm dia strainer of any slot as per design made with grade(Class E) uPVC pipe of wall thickness 3.9 mm to 4.5 mm (PWD BW 27.11.3.2)	m	432.69	429.61	420.36	420.36
10.11.4	Best quality 50 mm x 125 mm dia uPVC Reducer (PWD BW 27.11.4)	m	1,126.44	1,125.42	1,121.31	1,121.31
10.11.5	Unknown...					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.11.5.1	125mm dia water grade (Class D) uPVC housing pipe of wall thickness 7.3 to 8.4mm (PWD BW 27.11.5.1)	m	1,318.64	1,317.61	1,314.53	1,314.53
10.11.5.2	125mm dia water grade (Class E) uPVC housing pipe of wall thickness 9.0 to 10.4mm (PWD BW 27.11.5.2)	m	1,559.14	1,558.11	1,554.00	1,554.00
10.11.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.11.6)	each	602.28	599.19	588.92	588.92
10.12	Complete installation of 50 mm dia uPVC tube well fixtures such as expanded top or furnishing pipe, reducer, tube well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and PVC tape, sockets and placing in position with proper size M.S. centralizer @ 3.0 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.12)	m	107.92	105.86	101.75	101.75
10.13	Complete development of the tube well by air compressor and pump of suitable capacity by alternate surging and pumping or any specified method until satisfactory yield is achieved in sand and turbid free water confirmed by laboratory test using necessary quantity of cologne and conducting step drawn-down test before and after the development as per specification and accepted by the Engineer-in-charge.(Development should be started within 24 hours of completion of shrouding)					
10.13.1	Wells up to 200 m depth (PWD BW 27.13.1)	each	32,158.14	32,158.14	32,158.14	32,158.14
10.13.2	Wells beyond 200 m depth (PWD BW 27.13.2)	each	40,733.92	40,733.92	40,733.92	40,733.92
10.14	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.14)	hour	897.25	895.19	882.86	882.86
10.15	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) to obtain chlorinated water having 150 ppm free chlorine in the well complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.15)	each	1,689.67	1,689.67	1,689.67	1,689.67
10.16	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or by local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.16)	m	46.25	45.22	42.14	42.14
10.17	Protective top cover: Supplying and fitting fixing of best quality 150 mm dia 4 mm thick MS. Pipe 1.0 m (3'-4") long one end blocked with 200 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0") embedded in sanitary seal for protection of uPVC Housing Pipe as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.17)	each	5,472.92	5,460.58	5,410.22	5,410.22
10.18	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
10.18.1	From 0.0 m to 50 m = 50 m (PWD BW 27.18.1)	m	1,071.97	1,071.97	1,071.97	1,071.97
10.18.2	From 50 m to100 m = 50 m (PWD BW 27.18.2)	m	1,232.31	1,232.31	1,232.31	1,232.31
10.18.3	From 100 m to 152 m = 52 m (PWD BW 27.18.3)	m	1,417.31	1,417.31	1,417.31	1,417.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.18.4	From 152 m to 200 m = 48 m (PWD BW 27.18.4)	m	1,630.06	1,630.06	1,630.06	1,630.06
10.18.5	From 200 m to 250 m = 50 m (PWD BW 27.18.5)	m	1,874.67	1,874.67	1,874.67	1,874.67
10.18.6	Beyond 250 m (PWD BW 27.18.6)	m	2,156.28	2,156.28	2,156.28	2,156.28
10.19	Supplying the following tube well fixtures and pipes having density 1350 kg/m3, opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1:2013, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
10.19.1	Best quality 75 mm dia uPVC cap (PWD BW 27.19.1)	each	244.61	243.58	239.47	239.47
10.19.2	Unknown...					
10.19.2.1	75 mm dia water grade(Class D) uPVC blind pipe/sand trap of wall thickness 4.6 mm to 5.3 mm (PWD BW 27.19.2.1)	m	537.53	536.50	532.39	532.39
10.19.2.2	75 mm dia water grade(Class E) uPVC blind pipe/sand trap of wall thickness 5.7 mm to 6.6 mm (PWD BW 27.19.2.2)	m	677.31	676.28	672.17	672.17
10.19.3	Unknown...					
10.19.3.1	75 mm dia strainer of any slot as per design made with water grade (Class D) uPVC pipe of wall thickness 4.6 mm to 5.3 mm (PWD BW 27.19.3.1)	m	620.78	617.69	607.42	607.42
10.19.3.2	75 mm dia strainer of any slot as per design made with water grade (Class E) uPVC pipe of wall thickness 5.7 mm to 6.6 mm (PWD BW 27.19.3.2)	m	760.56	757.47	748.22	748.22
10.19.4	Best quality 75 mm x 150 mm dia uPVC Reducer (PWD BW 27.19.4)	each	1,614.64	1,613.61	1,609.50	1,609.50
10.19.5	Unknown...					
10.19.5.1	150 mm dia water grade(Class D) uPVC housing pipe having wall thickness 8.8 mm to 10.2 mm (PWD BW 27.19.5.1)	m	2,172.72	2,171.69	2,167.58	2,167.58
10.19.5.2	150 mm dia water grade(Class E) uPVC housing pipe having wall thickness 10.8 mm to 12.5 mm (PWD BW 27.19.5.2)	m	2,647.56	2,646.53	2,642.42	2,642.42
10.19.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.19.6)	m	602.28	599.19	588.92	588.92
10.20	Complete installation of 75 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c .in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.20)	m	115.11	113.06	109.97	109.97
10.21	Complete development of the well by suitable air compressor and pump of suitable capacity by alternate surging and pumping untill satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
10.21.1	Wells up to 200 m depth (PWD BW 27.21.1)	each	42,626.06	42,626.06	42,626.06	42,626.06
10.21.2	Wells beyond 200 m depth (PWD BW 27.21.2)	each	51,150.44	51,150.44	51,150.44	51,150.44
10.22	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer. (PWD BW 27.22)	hour	1,099.72	1,097.67	1,084.31	1,084.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.23	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.23)	each	2,052.47	2,052.47	2,052.47	2,052.47
10.24	Filling of the bore-hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.24)	m	55.50	54.47	51.39	51.39
10.25	Protective top cover: Supplying and fitting fixing best quality 200 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long, one end blocked with 250 mm dia 4 mm thick M.S. plate and other end minimum 300 mm (1'-0) embedded in sanitary seal for protection of uPVC housing pipe as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.25)	each	7,345.53	7,327.03	7,250.97	7,250.97
10.26	Boring: Execution of 400 mm dia of boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) Boring for 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
10.26.1	From 0.0 m to 50 m = 50 m (PWD BW 27.26.1)	m	1,122.33	1,122.33	1,122.33	1,122.33
10.26.2	From 50 m to 100 m = 50 m (PWD BW 27.26.2)	m	1,290.89	1,290.89	1,290.89	1,290.89
10.26.3	From 100 m to 152 m = 52 m (PWD BW 27.26.3)	m	1,484.11	1,484.11	1,484.11	1,484.11
10.26.4	From 152 m to 200 m = 48 m (PWD BW 27.26.4)	m	1,707.14	1,707.14	1,707.14	1,707.14
10.26.5	From 200 m to 250 m = 50 m (PWD BW 27.26.5)	m	1,963.06	1,963.06	1,963.06	1,963.06
10.26.6	Beyond 250 m (PWD BW 27.26.6)	m	2,258.03	2,258.03	2,258.03	2,258.03
10.27	Supplying the following tube well fixtures and pipes having density 1350 kg/m3, opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
10.27.1	Best quality 100 mm dia uPVC cap (PWD BW 27.27.1)	each	560.14	559.11	555.00	555.00
10.27.2	Unknown...					
10.27.2.1	100 mm dia water grade (Class D) uPVC blind pipe/ sand trap having wall thickness 6.0 mm to 6.9 mm (PWD BW 27.27.2.1)	m	725.61	724.58	720.47	720.47
10.27.2.2	100 mm dia water grade (Class E) uPVC blind pipe/ sand trap having wall thickness 7.3 mm to 8.4 mm (PWD BW 27.27.2.2)	m	1,053.47	1,052.44	1,048.33	1,048.33
10.27.3	Unknown...					
10.27.3.1	100 mm dia strainer of any slot as per design made with water grade(Class D) uPVC pipe having wall thickness 6.0 mm to 6.9 mm (PWD BW 27.27.3.1)	m	808.86	805.78	795.50	795.50
10.27.3.2	100 mm dia strainer of any slot as per design made with water grade(Class E) uPVC pipe having wall thickness 7.3 mm to 8.4 mm (PWD BW 27.27.3.2)	m	1,136.72	1,133.64	1,123.36	1,123.36
10.27.4	Best quality 100 mm x 200 mm dia uPVC reducer (PWD BW 27.27.4)	each	2,388.56	2,387.53	2,383.42	2,383.42
10.27.5	Unknown...					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.27.5.1	200 mm dia water grade (Class D) uPVC housing pipe having wall thickness 10.3 mm to 11.9 mm (PWD BW 27.27.5.1)	m	3,268.33	3,267.31	3,264.22	3,264.22
10.27.5.2	200 mm dia water grade(Class E) uPVC hjousing pipe having wall thickness 12.6 mm to 14.8 mm (PWD BW 27.27.5.2)	m	3,932.28	3,931.25	3,927.14	3,927.14
10.27.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.27.6)	each	602.28	599.19	588.92	588.92
10.28	Complete installation of 100 mm dia uPVC tube-well fixtures such as expanded top pipes,. reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality PVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c. in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.28)	m	136.69	134.64	129.50	129.50
10.29	Complete development of the tube-well by air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield of sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
10.29.1	Wells up to 200 m depth (PWD BW 27.29.1)	each	52,336.50	52,336.50	52,336.50	52,336.50
10.29.2	Wells beyond 200 m depth (PWD BW 27.29.2)	each	62,803.39	62,803.39	62,803.39	62,803.39
10.30	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.30)	hour	1,154.19	1,151.11	1,137.75	1,137.75
10.31	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.31)	each	2,414.25	2,414.25	2,414.25	2,414.25
10.32	Filling of the borehole around the tube-well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.32)	m	62.69	61.67	57.56	57.56
10.33	Protective top cover: Supplying and fitting fixing best quality 250 mm dia 4 mm thick M.S. pipe, 1.0 m (3'-4") long one, end blocked with 300 mm dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.33)	each	12,067.14	12,036.31	11,909.89	11,909.89
10.34	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). Boring for 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval or as required and at every change in soil stratum including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from E.G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth or of further boring required due to caving and siltation)					
10.34.1	From 0.0 m to 50 m = 50 m (PWD BW 27.34.1)	m	1,412.17	1,412.17	1,412.17	1,412.17
10.34.2	From 50 m to 100 m = 50 m (PWD BW 27.34.2)	m	1,623.89	1,623.89	1,623.89	1,623.89
10.34.3	From 100 m to 152 m = 52 m (PWD BW 27.34.3)	m	1,867.47	1,867.47	1,867.47	1,867.47
10.34.4	From 152 m to 200 m = 48 m (PWD BW 27.34.4)	m	2,148.06	2,148.06	2,148.06	2,148.06

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.34.5	From 200 m to 250 m = 50 m (PWD BW 27.34.5)	m	2,470.78	2,470.78	2,470.78	2,470.78
10.34.6	Beyond 250 m (PWD BW 27.34.6)	m	2,840.78	2,840.78	2,840.78	2,840.78
10.35	Supplying the following tube well fixtures and pipes having density 1350 kg/m3, opacity 0.2% of visible light as per ISO 7686, minimum required strength 25 MPa conforming to BDS-1878:2014, 4.4.1, 4.4.2 at working site as per standard practice and accepted by the Engineer-in-charge.					
10.35.1	Best quality 150 mm dia uPVC cap for blind pipe/ sand trap. (PWD BW 27.35.1)	each	1,175.78	1,174.75	1,170.64	1,170.64
10.35.2	Unknown...					
10.35.2.1	150 mm dia water grade(Class D) uPVC blind pipe/ sand trap having wall thickness 8.8 mm to 10.2 mm (PWD BW 27.35.2.1)	m	1,866.44	1,865.42	1,861.31	1,861.31
10.35.2.2	150 mm dia water grade(Class E) uPVC blind pipe/ sand trap having wall thickness 10.8 mm to 12.5 mm (PWD BW 27.35.2.2)	m	2,273.44	2,272.42	2,268.31	2,268.31
10.35.3	Unknown...					
10.35.3.1	150 mm dia strainer of any slot as per design made with water grade(Class D) uPVC pipe of wall thickness 8.8 to 10.2 mm (PWD BW 27.35.3.1)	m	1,970.25	1,967.17	1,955.86	1,955.86
10.35.3.2	150 mm dia strainer of any slot as per design made with water grade(Class E) uPVC pipe of wall thickness 10.8 to 12.5 mm (PWD BW 27.35.3.2)	m	2,378.28	2,375.19	2,362.86	2,362.86
10.35.4	Unknown...					
10.35.4.1	Best quality 150 mm x 200 mm dia uPVC Reducer (PWD BW 27.35.4.1)	each	2,601.31	2,600.28	2,595.14	2,595.14
10.35.4.2	Best quality 150 mm x 250 mm dia uPVC Reducer (PWD BW 27.35.4.2)	each	3,853.14	3,851.08	3,845.94	3,845.94
10.35.5	Unknown...					
10.35.5.1	200 mm dia water grade(Class D) uPVC housing pipe of wall thickness 10.3 mm to 11.9 mm (PWD BW 27.35.5.1)	m	3,268.33	3,267.31	3,264.22	3,264.22
10.35.5.2	200 mm dia water grade(Class E) uPVC housing pipe of wall thickness12.6 mm to 14.8 mm (PWD BW 27.35.5.2)	m	3,932.28	3,931.25	3,927.14	3,927.14
10.35.5.3	250 mm dia water grade(Class D) uPVC housing pipe of wall thickness 12.8 mm to 14.8 mm (PWD BW 27.35.5.3)	m	4,532.50	4,531.47	4,527.36	4,527.36
10.35.5.4	250 mm dia water grade(Class E) uPVC housing pipe of wall thickness 15.7 mm to 18.1 mm (PWD BW 27.35.5.4)	m	6,033.06	6,032.03	6,027.92	6,027.92
10.35.6	Supplying of centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.35.6)	m	602.28	599.19	588.92	588.92
10.36	Complete installation of 150 mm dia uPVC tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing with best quality uPVC solution, iron screws and uPVC tape and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.36)	m	132.58	130.53	127.44	127.44
10.37	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
10.37.1	Wells up to 200 m depth (PWD BW 27.37.1)	each	62,551.58	62,551.58	62,551.58	62,551.58
10.37.2	Wells beyond 200 m depth (PWD BW 27.37.2)	each	70,890.97	70,890.97	70,890.97	70,890.97

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.38	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.38)	hour	1,310.42	1,307.33	1,293.97	1,293.97
10.39	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.39)	each	2,897.31	2,897.31	2,897.31	2,897.31
10.40	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay as free from any substances harmful to pipes and health per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.40)	m	87.36	85.31	80.17	80.17
10.41	Protective top cover: Supplying fitting and fixing of best quality 250 mm dia 4 mm thick M.S. pipe 1.0 m (3'-4") long one end blocked with 300 dia 4 mm thick M.S. plate and other end minimum 300 (1'-0") embedded in sanitary seal for protection of uPVC Housing pipe as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.41)	each	11,260.33	11,228.47	11,103.08	11,103.08
10.42	Boring: Execution of 600 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 600 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge.(Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
10.42.1	From 0.0 m to 50 m = 50 m (PWD BW 27.42.1)	m	1,412.17	1,412.17	1,412.17	1,412.17
10.42.2	From 50 m to 100 m = 50 m (PWD BW 27.42.2)	m	1,623.89	1,623.89	1,623.89	1,623.89
10.42.3	From 100 m to 152 m = 52 m (PWD BW 27.42.3)	m	1,867.47	1,867.47	1,867.47	1,867.47
10.42.4	From 152 m to 200 m = 48 m (PWD BW 27.42.4)	m	2,148.06	2,148.06	2,148.06	2,148.06
10.42.5	From 200 m to 250 m = 50 m (PWD BW 27.42.5)	m	2,470.78	2,470.78	2,470.78	2,470.78
10.42.6	Beyond 250 m (PWD BW 27.42.6)	m	2,840.78	2,840.78	2,840.78	2,840.78
10.43	Supplying the following tube well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
10.43.1	150 mm dia M.S. cap 6 mm thick for blind pipe/sand trap (PWD BW 27.43.1)	each	1,594.08	1,593.06	1,588.94	1,588.94
10.43.2	150 mm dia G.I. Pipe having wall thickness 5.4 mm, weight 21.2 kg/m can withstand 50 kg/ cm2 hydraulic pressure for blind pipe/sand trap (PWD BW 27.43.2)	m	3,893.22	3,890.14	3,877.81	3,877.81
10.43.3	150 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
10.43.3.1	Stainless steel strainer of continuous slot having weight 28.84 kg per meter. (PWD BW 27.43.3.1)	m	18,942.97	18,940.92	18,930.64	18,930.64
10.43.3.2	2.50 mm thick stainless steel Bridge type strainer. (PWD BW 27.43.3.2)	m	14,409.44	14,407.39	14,397.11	14,397.11

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.43.4	150 mm x 300 mm dia M.S. reducer of minimum thickness of 6 mm. (PWD BW 27.43.4)	each	3,398.86	3,392.69	3,367.00	3,367.00
10.43.5	300 mm dia 6 mm minimum thick M.S. housing pipe (Seamless) (PWD BW 27.43.5)	m	10,750.56	10,744.39	10,719.72	10,719.72
10.43.6	Centralizer made with 12 mm dia M.S. rod of approved design. (PWD BW 27.43.6)	each	602.28	599.19	588.92	588.92
10.43.7	350 mm dia M.S. cap having 6 mm thick for housing pipe covering. (PWD BW 27.43.7)	each	3,606.47	3,592.08	3,531.44	3,531.44
10.44	Complete installation of 150 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including. blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.44)	m	827.36	811.94	752.33	752.33
10.45	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding)					
10.45.1	Wells up to 200 m depth (PWD BW 27.45.1)	each	62,551.58	62,551.58	62,551.58	62,551.58
10.45.2	Wells beyond 200 m depth (PWD BW 27.45.2)	each	70,890.97	70,890.97	70,890.97	70,890.97
10.46	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.46)	hour	1,352.56	1,349.47	1,336.11	1,336.11
10.47	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.47)	each	2,956.92	2,956.92	2,956.92	2,956.92
10.48	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.48)	m	87.36	85.31	80.17	80.17
10.49	Boring: Execution of 800 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter). For boring 800 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge.(Measurement will be allowed form G.L. to bottom of the blind pipe and the rate is required for caving and siltation)					
10.49.1	From 0.0 m to 50 m = 50 m (PWD BW 27.49.1)	m	1,588.94	1,588.94	1,588.94	1,588.94
10.49.2	From 50 m to 100 m = 50 m (PWD BW 27.49.2)	m	1,827.39	1,827.39	1,827.39	1,827.39
10.49.3	From 100 m to 152 m = 52 m (PWD BW 27.49.3)	m	2,101.81	2,101.81	2,101.81	2,101.81
10.49.4	From 152 m to 200 m = 48 m (PWD BW 27.49.4)	m	2,416.31	2,416.31	2,416.31	2,416.31
10.49.5	From 200 m to 250 m = 50 m (PWD BW 27.49.5)	m	2,779.11	2,779.11	2,779.11	2,779.11
10.49.6	Beyond 250 m (PWD BW 27.49.6)	m	3,196.39	3,196.39	3,196.39	3,196.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.50.1	200 mm dia M.S. cap 6mm thick for blind pipe/ sand strap (PWD BW 27.50.1)	each	2,022.67	2,021.64	2,017.53	2,017.53
10.50.2	200 mm dia 6 mm thick tube well pipe and blank G.I. pipe of wt. 33.45 kg per meter can withstand minimum 700 psi hydraulic pressure. (PWD BW 27.50.2)	m	7,992.00	7,988.92	7,976.58	7,976.58
10.50.3	200 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	m				
10.50.3.1	200 mm dia stainless steel strainer of continuous slot having 38.36 kg per meter. (PWD BW 27.50.3.1)	m	22,632.69	22,629.61	22,617.28	22,617.28
10.50.3.2	200 mm dia 2.5 mm thick stainless steel bridge type strainer (PWD BW 27.50.3.2)	m	15,068.25	15,065.17	15,052.83	15,052.83
10.50.4	200 mm x 400 mm dia 6 mm thick M.S. reducer. (PWD BW 27.50.4)	each	3,467.72	3,462.58	3,443.06	3,443.06
10.50.5	400 mm dia 6 mm thick M.S. housing pipe (Seamless) (PWD BW 27.50.5)	m	14,913.06	14,905.86	14,881.19	14,881.19
10.50.6	Centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.50.6)	each	602.28	599.19	588.92	588.92
10.50.7	450 mm dia M.S. cap of 6 mm thick for housing pipe covering. (PWD BW 27.50.7)	each	806.81	794.47	744.11	744.11
10.51	Complete installation of 200 mm dia deep tube well fixtures such as expanded top pipes, reducer, and tube well pipes, strainer, blind pipe. pipe cap etc. Fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer position including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.51)	m	903.42	886.97	821.19	821.19
10.52	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding).					
10.52.1	Wells up to 200 m depth (PWD BW 27.52.1)	each	59,398.36	59,398.36	59,398.36	59,398.36
10.52.2	Wells beyond 200 m depth (PWD BW 27.52.2)	each	66,386.22	66,386.22	66,386.22	66,386.22
10.53	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.53)	hour	1,398.81	1,396.75	1,383.39	1,383.39
10.54	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.54)	each	3,379.33	3,379.33	3,379.33	3,379.33
10.55	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.55)	m	87.36	85.31	80.17	80.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.56	Boring: Execution of 325 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 325 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
10.56.1	From 0.0 m to 50 m = 50 m (PWD BW 27.56.1)	m	983.58	983.58	983.58	983.58
10.56.2	From 50 m to 100 m = 50 m (PWD BW 27.56.2)	m	1,131.58	1,131.58	1,131.58	1,131.58
10.56.3	From 100 m to 152 m = 52 m (PWD BW 27.56.3)	m	1,301.17	1,301.17	1,301.17	1,301.17
10.56.4	From 152 m to 200 m = 48 m (PWD BW 27.56.4)	m	1,496.44	1,496.44	1,496.44	1,496.44
10.56.5	From 200 m to 250 m = 50 m (PWD BW 27.56.5)	m	1,720.50	1,720.50	1,720.50	1,720.50
10.56.6	Beyond 250 m (PWD BW 27.56.6)	m	1,978.47	1,978.47	1,978.47	1,978.47
10.57	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
10.57.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap. (PWD BW 27.57.1)	each	1,594.08	1,593.06	1,588.94	1,588.94
10.57.2	50 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe (PWD BW 27.57.2)	m	1,207.64	1,204.56	1,192.22	1,192.22
10.57.3	50 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.	m				
10.57.3.1	50 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter. (PWD BW 27.57.3.1)	m	7,669.28	7,666.19	7,656.94	7,656.94
10.57.3.2	50 mm dia 2.5 mm thick stainless steel bridge type strainer (PWD BW 27.57.3.2)	m	7,669.28	7,666.19	7,656.94	7,656.94
10.57.4	50 mm x 150 mm dia 6 mm thick M.S. reducer. (PWD BW 27.57.4)	each	1,387.50	1,381.33	1,355.64	1,355.64
10.57.5	150 mm dia 6 mm thick M.S. housing pipe (Seamless). (PWD BW 27.57.5)	m	5,201.58	5,195.42	5,170.75	5,170.75
10.57.6	Centralizer made with 12 mm dia M.S. rod of approved design. (PWD BW 27.57.6)	each	602.28	599.19	588.92	588.92
10.57.7	150 mm dia M.S. cap of 6 mm thick for housing pipe covering. (PWD BW 27.57.7)	each	2,371.08	2,355.67	2,295.03	2,295.03
10.58	Complete installation of 50 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including. blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge (PWD BW 27.58)	m	827.36	811.94	752.33	752.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.59	Compete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
10.59.1	Wells up to 200 m depth (PWD BW 27.59.1)	each	32,158.14	32,158.14	32,158.14	32,158.14
10.59.2	Wells beyond 200 m depth (PWD BW 27.59.2)	each	36,446.03	36,446.03	36,446.03	36,446.03
10.60	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.60)	hour	1,107.94	1,105.89	1,093.56	1,093.56
10.61	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.61)	each	1,689.67	1,689.67	1,689.67	1,689.67
10.62	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.62)	m	49.33	48.31	45.22	45.22
10.63	Boring: Execution of 350 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 350 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
10.63.1	From 0.0 m to 50 m = 50 m (PWD BW 27.63.1)	m	1,071.97	1,071.97	1,071.97	1,071.97
10.63.2	From 50 m to 100 m = 50 m (PWD BW 27.63.2)	m	1,232.31	1,232.31	1,232.31	1,232.31
10.63.3	From 100 m to 152 m = 52 m (PWD BW 27.63.3)	m	1,417.31	1,417.31	1,417.31	1,417.31
10.63.4	From 152 m to 200 m = 48 m (PWD BW 27.63.4)	m	1,630.06	1,630.06	1,630.06	1,630.06
10.63.5	From 200 m to 250 m = 50 m (PWD BW 27.63.5)	m	1,874.67	1,874.67	1,874.67	1,874.67
10.63.6	Beyond 250 m (PWD BW 27.63.6)	m	2,156.28	2,156.28	2,156.28	2,156.28
10.64	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
10.64.1	150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap. (PWD BW 27.64.1)	each	1,436.83	1,435.81	1,432.72	1,432.72
10.64.2	75 mm dia 4.85 mm thick tube well pipe and blank G.I. pipe (PWD BW 27.64.2)	m	1,777.03	1,776.00	1,771.89	1,771.89
10.64.3	75 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.64.3.1	75 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter. (PWD BW 27.64.3.1)	m	10,317.86	10,314.78	10,302.44	10,302.44
10.64.3.2	75 mm dia 2.5 mm thick stainless steel bridge type strainer (PWD BW 27.64.3.2)	m	10,251.06	10,247.97	10,234.61	10,234.61
10.64.4	75 mm x 150 mm dia 6 mm thick M.S. reducer. (PWD BW 27.64.4)	m	1,387.50	1,381.33	1,355.64	1,355.64
10.64.5	150 mm dia 6 mm thick M.S. housing pipe (Seamless) (PWD BW 27.64.6)	m	5,201.58	5,195.42	5,170.75	5,170.75
10.64.6	Centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.64.7)	each	602.28	599.19	588.92	588.92
10.64.7	150 mm dia M.S. cap of 6 mm thick for housing pipe covering. (PWD BW 27.64.8)	m	2,371.08	2,355.67	2,295.03	2,295.03
10.65	Complete installation of 75 mm dia deep tube-well fixtures such as expanded top pipes, reducer, tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge. (PWD BW 27.65)	m	792.42	779.06	721.50	721.50
10.66	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge(Development should be started within 24 hours of completion of shrouding).					
10.66.1	Wells up to 200 m depth (PWD BW 27.66.1)	each	42,626.06	42,626.06	42,626.06	42,626.06
10.66.2	Wells beyond 200 m depth (PWD BW 27.66.2)	each	48,308.64	48,308.64	48,308.64	48,308.64
10.67	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge. (PWD BW 27.67)	hour	1,235.39	1,232.31	1,218.94	1,218.94
10.68	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.68)	each	2,052.47	2,052.47	2,052.47	2,052.47
10.69	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge. (PWD BW 27.69)	m	57.56	55.50	52.42	52.42
10.70	Boring: Execution of 400 mm dia boring through all sorts of strata by reverse circulation or any other approved method (Method other than reverse circulation is to be applied only for wells deeper than 152 meter) for boring 400 mm dia vertical hole up to designed depth and collection of soil samples at every 3 meter interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements complete as per specification and accepted by the Engineer-in-charge. (Measurement will be allowed from G.L. to bottom of the blind pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation)					
10.70.1	From 0.0 m to 50 m = 50 m (PWD BW 27.70.1)	m	1,122.33	1,122.33	1,122.33	1,122.33
10.70.2	From 50 m to 100 m = 50 m (PWD BW 27.70.2)	m	1,290.89	1,290.89	1,290.89	1,290.89
10.70.3	From 100 m to 152 m = 52 m (PWD BW 27.70.3)	m	1,484.11	1,484.11	1,484.11	1,484.11

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
10.70.4	From 152 m to 200 m = 48 m (PWD BW 27.70.4)	m	1,707.14	1,707.14	1,707.14	1,707.14
10.70.5	From 200 m to 250 m = 50 m (PWD BW 27.70.5)	m	1,963.06	1,963.06	1,963.06	1,963.06
10.70.6	Beyond 250 m (PWD BW 27.70.6)	m	2,258.03	2,258.03	2,258.03	2,258.03
10.71	Supplying the following tube-well fixtures and pipes conforming to standard BS-1387 & BDS-1031, having chemical composition (in%) carbon 0.17-0.25, manganese 0.95-1.20, sulphur 0.060 max, phosphorous 0.060 max, tensile properties: miminum yield strength 188 MPa, minimum tensile strength 313 MPa and marking for a) manufacturer b) material c) wall thickness d) nominal outside dia e) intended use etc. on the body of the pipe at working site as per standard practice and accepted by the Engineer-in-charge.					
10.71.1	Supplying 150 mm dia 6mm thick M.S. cap for blind pipe/ sand trap. (PWD BW 27.71.1)	each	1,594.08	1,593.06	1,588.94	1,588.94
10.71.2	Supplying 100 mm dia 6 mm thick tube well pipe and blank G.I. pipe (PWD BW 27.71.2)	m	2,668.11	2,665.03	2,652.69	2,652.69
10.71.3	100 mm dia strainer of slot opening as per design including tagging 4 Nos. 12 mm dia M.S. rod continuously.					
10.71.3.1	Supplying 100 mm dia stainless steel strainer of continuous slot having 28.84 kg per meter. (PWD BW 27.71.3.1)	m	11,424.78	11,423.75	11,423.75	11,423.75
10.71.3.2	Supplying 100 mm dia 2.5 mm thick stainless steel bridge type strainer (PWD BW 27.71.3.2)	m	8,863.56	8,860.47	8,848.14	8,848.14
10.71.4	Supplying 100 mm x 200 mm dia 6 mm thick M.S. reducer. (PWD BW 27.71.4)	each	1,665.00	1,659.86	1,639.31	1,639.31
10.71.5	Supplying 200 mm dia 6 mm thick M.S. housing pipe (Seamless) (PWD BW 27.71.5)	m	5,404.06	5,397.89	5,372.19	5,372.19
10.71.6	Supplying centralizer made with 12 mm dia M.S. rod of approved design (PWD BW 27.71.6)	each	367.94	365.89	355.61	355.61
10.71.7	Supplying 200 mm dia M.S. cap of 6 mm thick for housing pipe covering. (PWD BW 27.71.7)	each	2,850.03	2,850.03	2,787.33	2,787.33
10.72	Complete installation of 100 mm dia deep tube-well fixtures such as expanded top pipes, reducer, and tube-well pipes, strainer, blind pipe, pipe cap etc. fitting and fixing socket, welding and additional welding with fibre and placing in position with proper size M.S. centralizer @ 3 meter c/c in strainer portion including blind pipe etc. complete as per standard practice and accepted by the Engineer-in-charge (PWD BW 27.72)	m	762.61	752.33	711.22	711.22
10.73	Complete development of the tube well by suitable air compressor and pump of suitable capacity by alternate surging and pumping until satisfactory yield, sand free water and the turbidity condition is reached using necessary quantity of calgon and conducting step draw down test before and after the development as per specification and accepted by the Engineer-in-charge (Development should be started within 24 hours of completion of shrouding)					
10.73.1	Wells up to 200 m depth (PWD BW 27.73.1)	each	52,336.50	52,336.50	52,336.50	52,336.50
10.73.2	Wells beyond 200 m depth (PWD BW 27.73.2)	each	59,314.08	59,314.08	59,314.08	59,314.08
10.74	Pumping test of the well by designed turbine/submersible pump with supply of testing equipments for pressure/ velocity/ discharge etc. and all materials for 72 hours including yield drawn and recovery test etc. complete as per specification and accepted by the Engineer-in-charge (PWD BW 27.74)	hour	1,282.67	1,279.58	1,266.22	1,266.22
10.75	Disinfections of the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine etc. complete as per standard specification and accepted by the Engineer-in-charge (PWD BW 27.75)	each	2,414.25	2,414.25	2,414.25	2,414.25

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1	2	3	4	5	6	7
10.76	Filling of the borehole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawn selected soil or local clay free from any substances harmful to pipes and health as per standard specification and accepted by the Engineer-in-charge (PWD BW 27.76)	m	64.75	62.69	59.61	59.61
10.77	Supplying and sinking of 40 mm dia water grade uPVC tube well pipe having wall thickness 2.5 mm to 3.0 mm including trial boring and with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
10.77.1	40 mm dia pipe up to 60 m depth (PWD BW 27.77.1)	m	285.72	281.61	265.17	265.17
10.77.2	40 mm dia pipe beyond 60 m depth (PWD BW 27.77.2)	m	506.69	500.53	475.86	475.86
10.78	Supplying and sinking of 3 m long uPVC strainer with all necessary fittings as required etc. complete and accepted by the Engineer-in-charge. (PWD BW 27.78)	each	721.50	717.39	701.97	701.97
10.79	Supplying, fitting and fixing of No. 6 pump for 40 mm dia tube well with all necessary fittings including 0.61 m long 40 mm dia G.I. Pipe etc. all complete as per accepted by the Engineer-in-charge. (PWD BW 27.79)	each	4,282.75	4,282.75	4,282.75	4,282.75
10.80	Construction of platform of size 1.4 m x 1.0 m and outlet drain up to1 meter long, as per drawing with 75 mm thick cement concrete of f'c min 17 MPa with brick chips and cement content relates to 1:2:4, over a brick flat soling and providing 125 mm x 75mm brick band in 1:6 all around, including finished with 12 mm thick cement plaster in 1:4 followd by neat cement finishing all complete and accepted by the Engineer-in-charge. (PWD BW 27.80)	each	7,361.97	7,340.39	7,063.92	7,063.92
10.81	Supplying and sinking uPVC, tube well pipe, uPVC strainer including trial boring with all necessary fittings as required etc. all complete and accepted by the Engineer-in-charge.					
10.81.1	50 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm (PWD BW 27.81.1)	m	600.22	596.11	579.67	579.67
10.81.2	40 mm dia water grade uPVC pipe having wall thickness 2.5 mm to 3 mm (PWD BW 27.81.2)	m	392.61	388.50	372.06	372.06
10.81.3	40 mm dia uPVC strainer 3.0 m long (PWD BW 27.81.3)	each	721.50	717.39	701.97	701.97
10.82	Supplying, fitting and fixing of deep set tube well pump (Hand set) with all necessary fittings as required such as No. 6 pump, 50 mm dia G.I. pipe 0.61 m long, 50 mm x 40 mm reducing socket, 40 mm dia pipe Nipple 1.22 m long cylinder, tie foot ball, tie plunger, 3 Nos. 10 mm dia sockets, 4 Nos. 10mm dia nuts, 5 Nos. end threaded 10 mm dia M.S. rod 3 m long, necessary quantity of solution and tape etc. complete and accepted by the Engineer-in-charge. (PWD BW 27.82)	each	8,660.06	8,635.39	8,534.67	8,534.67

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 11 : Furniture and Fixtures						
11.01	Supply of furniture for Primary School					
11.01.01	Supplying High Bench (Size : 1.125mx0.35mx0.6m) with top made of best quality seasoned wood (well matured and sapless) like Jack wood, Silkarai, Gamari and Chittagong Teak. Legs and structures be made of steel angle in box form, welded (12mm weld length @ 50mm c/c all through angle box), cold bended and formed round corners. Exposed faces of all iron components shall be painted and finished with 2 coats of best quality prior approved enamel paint over a coat of priming and wood surfaces to be varnished with best quality varnish in 3 coats, fabrication of steel angle box, finishing, assembling of all components, providing best quality PVC stoppers, fixing with requisite numbers and sizes of nuts and bolts and packing, etc all complete as shown in the drawing (if provided) and as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	4,161.67	4,161.67	4,161.67	4,161.67
11.01.02	Supplying Low Bench (Size : 1.35mx0.25mx0.375m) with top made of best quality seasoned wood (well matured and sapless) like Jack wood, Silkarai, Gamari and Chittagong Teak. Legs and structures be made of steel angle in box form, welded (12mm weld length @ 50mm c/c all through angle box), cold bended and formed round corners. Exposed faces of all iron components shall be painted and finished with 2 coats of best quality prior approved enamel paint over a coat of priming and wood surfaces to be varnished with best quality varnish in 3 coats, fabrication of steel angle box, finishing, assembling of all components, providing best quality PVC stoppers, fixing with requisite numbers and sizes of nuts and bolts and packing, etc all complete as shown in the drawing (if provided) and as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	3,745.50	3,745.50	3,745.50	3,745.50
11.01.03	Supplying Teacher's Table (Size : 0.675mx0.375mx0.763m) with top made of best quality seasoned wood (well matured and sapless) like Jack wood, Silkarai, Gamari and Chittagong Teak. Legs and structures be made of steel angle in box form, welded (12mm weld length @ 50mm c/c all through angle box), cold bended and formed round corners. Exposed faces of all iron components shall be painted and finished with 2 coats of best quality prior approved enamel paint over a coat of priming and wood surfaces to be varnished with best quality varnish in 3 coats, fabrication of steel angle box, finishing, assembling of all components, providing best quality PVC stoppers, fixing with requisite numbers and sizes of nuts and bolts and packing, etc all complete as shown in the drawing (if provided) and as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	5,132.72	5,132.72	5,132.72	5,132.72
11.01.04	Supplying Teacher's Chair (Size : 0.45mx0.4mx0.425m) with back and seat made of best quality seasoned wood (well matured and sapless) like Jack wood, Silkarai, Gamari and Chittagong Teak. Legs and structures be made of steel angle in box form, welded (12mm weld length @ 50mm c/c all through angle box), cold bended and formed round corners. Exposed faces of all iron components shall be painted and finished with 2 coats of best quality prior approved enamel paint over a coat of priming and wood surfaces to be varnished with best quality varnish in 3 coats, fabrication of steel angle box, finishing, assembling of all components, providing best quality PVC stoppers, fixing with requisite numbers and sizes of nuts and bolts and packing, etc all complete as shown in the drawing (if provided) and as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	5,132.72	5,132.72	5,132.72	5,132.72

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1	2	3	4	5	6	7
11.01.05	Supplying Steel Almirah (Size : 1.8mx0.9mx0.675m) with required number of drawers, made of 18 BWG MS sheet at front and two parallel sides and 20 BWG MS sheet at back side as per approved design and specification in/c superior quality painting with synthetic best quality prior approvedenamel paint in/c welding, plane surfacing, denting points, fitting and fixing standard lock with two sets of keys and also lock in drawers etc. all complete as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	26,759.52	26,759.52	26,759.52	26,759.52
11.01.06	Supply of High, Low combined Bench with Book shelf for Primary School: (A). High Bench with Book shelf: Size : 1.450m-(L) x 0.425m(W)x0.730m(H) with plastic top wall thickness 5mm with side wall 25mm height, wall thickness 5mm, Plastic frame weight 5000 gm, Vertical Ribs 25 nos, Horizontal Ribs 7 nos ,Rib height 12mm and thickness 4mm, Plastic top rib sunk size: 6 to 8mm dia for provided screw 38mm dia @ 180mm c/c long direction and 75mm c/c short direction fitted with steel frame size: 1.435m x0.372m x0.713m made of 25mm MS square box , Steel frame for footing bracing made of 38mm MS Square box with same materials, Book shelf fitted with 150mm below top frame with same materials and 5mm guide Rod 15 nos at back side and 2 nos each at left and right side welded with 25mm x 25mmx 2mm MS Angle as shown in drawing, Stopper should be anchored by raised thread. (B). Low Bench: Size : 1.395m-(L)x0.305m(W)x0.380m(H) with plastic top wall thickness 5mm with side wall 25mm height, wall thickness 5mm, Plastic frame weight 3000 gm, Vertical Ribs 21 nos, Horizontal Ribs 7 nos, Rib height 12mm and thickness 4mm, Plastic top rib sunk size 6 to 8mm dia for provided screw 38mm dia @ 180mm c/c long direction and 75mm c/c short direction fitted with steel frame size: 1.325m x0.270m x0.363m made of 25mm MS square box. Steel frame for footing bracing made of 38mm MS Square box, Stopper should be anchored by raised thread as shown in the drawing (if provided) including cost of fabricating, cutting, welding, painting etc. all Complete as per the drawing and direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school). BUET test: Physical strength, Breaking strength of Polypropylene impact co Polymer Plastic frame: i) Hardness, Rock well, ii) Tensile strength High and Low Bench for every 1000 nos set/pair or part there of one test for each type of comprising average of 2 (Two) sample. all complete	set	11,539.17	11,539.17	11,539.17	11,539.17

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1	2	3	4	5	6	7
11.01.07	Teacher Table: Supply Primary school teachers Table as per below specification Table top Raw materials :-Polypropylene Impact Copolymer Plastic Size : - 838mm(L) x 533mm(W) x 775m Table Top: Dimen 838mm(L) x 533mm(W) x 25mm(T) Colour: Deep blue, Brick Red, Black, Orange Plastic Top Weight : 5000gm Steel tube Specification 25mm x 25mm x1.2mm Steel frame Dimension 785mm(L) x 470mm(W) x 750mm Drawer: Two drawer fixed right side, made by high quality 12mm melamine laminated board with two side covered by 12mm laminated board and Back side covered by 3mm thick ply wood. Size:300mmx300mm Other Manufacturing and Supplying teachers table will be made of non-toxic Polypropylene impact Copolymer Plastic and Legs are structure made of ms Round tube -25mm x 1.2mm(22x1.2mm), welded (0.5" weld length @ 2" c/c continuously through the MS tube), cold bended & formed strictly as per drawing. The frame of table must be cleaned in 07(seven) stage tank with phosphate chemical method pure along with polyester powder coating for pre-head at 230ºC for 22 minutes in heat heaven for curing the paint. Finishing including assembling of all components and best quality PVC stoppers necessary number and type of nuts and bolts and packing shall be used as shown in the design. Bottom of legs will be provided with PVC cap/shoe as per drawing. Plastic frame top installation : The Polypropylene Impact Copolymer plastic frame top will be tied with MS steel frame (25mm X 378MM and thick1.2mm) by 1 micron electroplated (No-16) X 4 and 50mm star head Countersunk screw at a distance 75 and 180mm c/c. BUET test: Physical strength, Breaking strength of Polypropylene impact co Polymer Plastic frame: i) Hardness, Rock well, ii) Tensile strength All complete as per direction of the E-I-C.	each	7,945.00	7,945.00	7,945.00	7,945.00
11.01.08	Teacher Chair: Size 550mm(L)x515mm(W)x850m (H) Chair seat Raw materials :- Polypropylene Impact copolymer Chair top Specific on 465mm(L)x480mm(W)x425m (H) Plastic weight 174 Chair colour Deep blue, Brick red, black, Or Steel tu, Specification Round tube -25mm x 1.2mm, Steel frame Dimension 550mm(L) x 515mm(W) x 47 Manufacturing & Supplying teacher chair made of Polypropylene Impact Copolymer Plastic and Legs are structure made of MS Round tube -25mm x 1.2mm (22x1.2 mm), welded (0.5'' weld length@2 `` C/C continuously through the MS tube), cold bended & formed strictly as per drawing. The frame of chair must be cleaned in 07 (seven) stage tank with phosphate chemical method pure along with polyester powder coating for pre-head at 230ºc for 22 minutes in heat oven for curing the paint to make the permanent of color of steel frame. Finishing including assembling of all components and best quality PVC stoppers necessary number and type of nuts and bolts and packing shall be used as shown in the same must be supplied and get approval from Upazila Engineer/Executive Engineer before manufacturing of the lot. Bottom of legs will be provided with PVC cap/shoe as per drawing BUET test: Physical strength, Breaking strength of Polypropylene impact co Polymer Plastic frame: i) Hardness, Rock well, ii) Tensile strength All complete as per direction of the E-I-C.	each	2,143.89	2,143.89	2,143.89	2,143.89
11.02	Washing, cleaning and polishing with French polish, in/c small repairs as necessary, etc. all complete as per direction of the E-I-C.					
11.02.01	Armed chair	each	405.76	393.15	374.23	374.23
11.02.02	Armless chair	each	330.10	320.01	304.87	304.87

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1	2	3	4	5	6	7
11.02.03	Easy chair (caned)	each	339.24	329.15	314.02	314.02
11.02.04	Easy chair (canvassed)	each	339.24	329.15	314.02	314.02
11.02.05	Table (big)	each	499.72	484.58	461.88	461.88
11.02.06	Table (small)	each	414.91	402.29	383.38	383.38
11.02.07	Dressing Table	each	848.10	822.88	785.04	785.04
11.02.08	Sofa Set	each	1,409.29	1,371.46	1,314.71	1,314.71
11.02.09	Cot	each	1,220.13	1,188.60	1,141.31	1,141.31
11.02.10	Almirah	each	1,409.29	1,371.46	1,314.71	1,314.71
11.02.11	Meat Safe	each	848.10	822.88	785.04	785.04
11.02.12	Cupboard	each	848.10	822.88	785.04	785.04
11.02.13	Sideboard, whatnot, rack, cloth stand	each	433.19	420.58	401.66	401.66
11.03	Supplying best quality Cot (Size:2.13mx1.07m) made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	21,501.94	21,501.94	21,501.94	21,501.94
11.04	Supplying ordinary Table (Size:1.08mx0.76m) made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	12,485.00	12,485.00	12,485.00	12,485.00
11.05	Supplying best quality Tea Table of standard size made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	4,161.67	4,161.67	4,161.67	4,161.67
11.06	Supplying best quality Secretariat Table (Size: 1.52m x1.07mx0.76m) made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/French polishing, best quality rexin topping and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	27,744.44	27,744.44	27,744.44	27,744.44
11.07	Supplying official Table made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering. Three side covered in same board in black /beech colour and one side opened i/c table top covered with smooth finishing Laminated Melamine Board (LB) etc. all complete as per direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).					
11.07.01	Official Table LB (Size : 1600LX850WX 750Hmm) (Navana of FTL0560/ Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	12,611.11	12,611.11	12,611.11	12,611.11
11.07.02	Official Table LB (Size : 1600LX800WX 750Hmm) (Navana of FTL0562 /Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	11,854.44	11,854.44	11,854.44	11,854.44
11.07.03	Official Table LB (Size : 1600LX800WX 750Hmm (Navana of FTL0561/ Otobi / Hatil/ Akther/ Brothers or equivalent best quality)	each	11,097.78	11,097.78	11,097.78	11,097.78
11.07.04	Official Table LB (Size : 1600LX800WX 750Hmm) (Navana of FTL0563/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	11,097.78	11,097.78	11,097.78	11,097.78
11.07.05	Official Table LB (Size : 1400LX800WX 750Hmm) (Navana of FTM0560/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	11,097.78	11,097.78	11,097.78	11,097.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.07.06	Official Table LB (Size : 1400LX750WX 750Hmm) (Navana of FTM0562/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,467.22	10,467.22	10,467.22	10,467.22
11.07.07	Official Table LB (Size : 1400LX750W X 750Hmm) (Navana of FTM0561 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	9,458.33	9,458.33	9,458.33	9,458.33
11.07.08	Official Table LB (Size : 1400LX750WX 750Hmm) (Navana of FTM0563 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,827.78	8,827.78	8,827.78	8,827.78
11.07.09	Official Table LB (Size : 1200LX750WX 750Hmm) (Navana of FTN0560/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,088.89	10,088.89	10,088.89	10,088.89
11.07.10	Official Table LB (Size : 1200lLX750WX 750Hmm) (Navana of FTN0562/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,827.78	8,827.78	8,827.78	8,827.78
11.07.11	Official Table LB (Size : 1200LX700WX 750Hmm) (Otobi of TPOP001LB/Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	19,168.89	19,168.89	19,168.89	19,168.89
11.07.12	Official Table LB (Size : 1200LX 700WX 750Hmm) (Navana of FTN0561 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	11,097.78	11,097.78	11,097.78	11,097.78
11.07.13	Official Table LB (Size : 1200lLX700WX 750Hmm) (Navana of FTN0563 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,945.00	7,945.00	7,945.00	7,945.00
11.07.14	Official Table LB (Size : 1000LX600WX 750Hmm) (Navana of FTS0563/Otobi/Hatil/ Akther/ Brothers or equivalent best quality)	each	6,810.00	6,810.00	6,810.00	6,810.00
11.08	Supplying Senior officials Table made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering. Three side covered in same board in black /beech colour and one side opened i/c table top covered with smooth finishing termite proof Laminated Melamine Board (LB) etc. all complete as per direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).					
11.08.01	Senior Official Table LB (Size :1800LX1800W X 750Hmm) (Otobi of TMOP008LB /Navana/i/Hatil/Akther/Brothers or equivalent best quality)	each	46,156.67	46,156.67	46,156.67	46,156.67
11.08.02	Senior Official Table LB (Size :1800LX800W X750Hmm) (Otobi of TMOP004LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	42,625.56	42,625.56	42,625.56	42,625.56
11.08.03	Senior Official Table LB (Size :1800LX1800W X750Hmm) (Otobi of TMOP019LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	31,149.44	31,149.44	31,149.44	31,149.44
11.08.04	Senior Official Table LB (Size :1800LX1700W X750Hmm) (Otobi of TMOP006LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	41,553.61	41,553.61	41,553.61	41,553.61
11.08.05	Senior Official Table LB (Size :1800LX1000W X 750Hmm) (Navana of FTM0552 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	25,222.22	25,222.22	25,222.22	25,222.22
11.08.06	Senior Official Table LB (Size :1800LX900WX 750Hmm) (Navana of FTM0550LB /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	13,620.00	13,620.00	13,620.00	13,620.00
11.08.07	Senior Official Table LB (Size : 1650LX800WX 750Hmm) (Navana of FTM6001 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	40,355.56	40,355.56	40,355.56	40,355.56
11.08.08	Senior Official Table LB (Size :1600LX900WX 750Hmm) (Otobi of TEOP005LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	26,483.33	26,483.33	26,483.33	26,483.33
11.08.09	Senior Official Table LB(Size :1600LX850WX 750Hmm) (Navana of FTM0553 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	15,637.78	15,637.78	15,637.78	15,637.78
11.08.10	Senior Official Table LB (Size :1600LX750W X750Hmm) (Navana of FTM6002 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	34,554.44	34,554.44	34,554.44	34,554.44
11.08.11	Senior Official Table LB (Size : 1600lLX750W X 750Hmm) (Otobi of TEOP022LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	17,151.11	17,151.11	17,151.11	17,151.11
11.08.12	Senior Official Table LB (Size : 1400LX750W X 750Hmm) (Navana of TEOP012LB /Otobi//Hatil/Akther/Brothers or equivalent best quality)	each	24,843.89	24,843.89	24,843.89	24,843.89

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1	2	3	4	5	6	7
11.08.13	Senior Official Table LB (Size :1400LX750W X 750Hmm) (Otobi of TPOP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	19,168.89	19,168.89	19,168.89	19,168.89
11.09	Supplying Senior officials Table made of best quality imported Engineering wood/Melamine MDF (Medium Density Fiber) board of black /beech or any other approved colour with edge covering. Three sides covered in same board i/c cross legs fixing with any other means of wood/metal and one side opened. Table top covered with smooth finishing Engineering wood/MDF (Medium Density Fiber) with front side foreign black lather etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.09.01	Senior Official Table MDF/EW (Size :2438LX1907WX750Hmm) (Otobi of TMOP016WD /Navana/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	107,068.33	107,068.33	107,068.33	107,068.33
11.09.02	Senior Official Table MDF/EW (Size :2386LX1059WX750Hmm) (Otobi of TMOP020WD /Navana/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	128,633.33	128,633.33	128,633.33	128,633.33
11.09.03	Senior officials Table-MDF/EW (Size: 1800Lx2175Wx750H mm) (Hatil of HPL-500-125-2-1-67 /Navana/Otobi/Akther/Brothers or equivalent best quality) with drawer unit	each	77,185.04	77,185.04	77,185.04	77,185.04
11.09.04	Senior Official Table MDF/EW (Size :2150LX900WX750Hmm) (Navana of FTM1303 /Otobi/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	59,902.78	59,902.78	59,902.78	59,902.78
11.09.05	Senior officials Table-MDF/EW (Size: 1800Lx1800Wx750H mm) (Hatil of HPL-500-128-2-1-88 /Navana/Otobi/Akther/Brothers or equivalent best quality) with drawer unit	each	81,341.67	81,341.67	81,341.67	81,341.67
11.09.06	Senior Official Table MDF (Size :1800LX900WX750Hmm) (Navana of FTM1301LB /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	50,444.44	50,444.44	50,444.44	50,444.44
11.09.07	Senior officials Table-MDF/EW (Size: 1800Lx1700Wx750H mm) (Otobi of TMOP018WD /Navana/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	72,513.89	72,513.89	72,513.89	72,513.89
11.09.08	Senior Official Table MDF/EW (Size :1800LX1830WX 750Hmm) (Otobi of TMOP022LB/ Navana/Hatil/Akther /Brothers or equivalent best quality)	each	34,050.00	34,050.00	34,050.00	34,050.00
11.09.09	Senior Official Table MDF/EW (Size :1400LX800WX750Hmm) (Navana of FTM1304 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	31,527.78	31,527.78	31,527.78	31,527.78
11.10	Supplying Drawer unit made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering of standard (beech/Black) Colour & size, three drawer in high quality imported PVC handle with Center lock. Inside constructed rollers with bearings for smooth operation of sliding drawer etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.10.01	Three Drawer unit with wheel (size : 400Wx470Dx705H) (Navana of FDZ0610 /Otobi/Hatil/ Akther/Brothers or equivalent best quality)	each	7,818.89	7,818.89	7,818.89	7,818.89
11.10.02	Three Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0611/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	7,377.50	7,377.50	7,377.50	7,377.50
11.10.03	Three Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0620/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	7,188.33	7,188.33	7,188.33	7,188.33
11.10.04	Three Drawer unit with wheel (size : 400Wx470Dx705H) (Navana of FDZ0619/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	7,440.56	7,440.56	7,440.56	7,440.56
11.10.05	Two Drawer unit with wheel (size : 400Wx470Dx705H) (Navana of FDZ0617/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	5,675.00	5,675.00	5,675.00	5,675.00
11.10.06	Two Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0618/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	5,422.78	5,422.78	5,422.78	5,422.78

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.11	Supplying Conference Table made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) frame with standard size leg and 25mm thick scrach proof and termite proof Laminated Melamine Board (LB) top i/c edge covering of black /beech colour etc. all complete as per direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each				
11.11.01	Conference Table- Corner LB (size: 625Lx625Wx750Hmm) (Navana of FCM 0580 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	5,675.00	5,675.00	5,675.00	5,675.00
11.11.02	Conference Table- Short Middle LB (size: 600Lx600Wx750Hmm) (Navana of FCM 0581/ Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	5,675.00	5,675.00	5,675.00	5,675.00
11.11.03	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) (Navana of FCM 0582 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	day	8,449.44	8,449.44	8,449.44	8,449.44
11.11.04	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) (Navana of FCM 0582 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	9,080.00	9,080.00	9,080.00	9,080.00
11.11.05	Conference Table- Long Middle LB (size: 1600Lx600Wx750Hmm) (Navana of FCM 0584 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	10,088.89	10,088.89	10,088.89	10,088.89
11.12	Supplying best quality Dressing Table as per approved design, made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing to all wood surfaces, providing best quality Belgium Mirror (Size:1.08mx0.41m) etc. all complete and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	15,953.06	15,953.06	15,953.06	15,953.06
11.13	Supplying Dining Table (Size:1.83mx0.96mx0.76m) made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/ French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	27,744.44	27,744.44	27,744.44	27,744.44
11.14	Supplying cushioned Chair as per approved design and direction, made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, best quality high tempered spring and cushion in sit, back and handle etc. all complete as per direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	8,323.33	8,323.33	8,323.33	8,323.33
11.16	Supplying of Easy Chair of standard size with plastic cone of standard size, made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing or French polishing and finishing, etc. all complete as per design (if provided) etc. all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	15,133.33	15,133.33	15,133.33	15,133.33
11.17	Supplying best quality armed ChairJack wood (wooden sit and back) of standard size, made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/ French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	7,629.72	7,629.72	7,629.72	7,629.72

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.18	Supplying best quality armed Visitor Chair of official standard special size of zinc phosphate coated oven backed powder paint finish stainless steel tube body of 4 legs with two arm made by Stainless Steel tube or pre approved materials . Foam cushioning seat and back pasted on imported ply wood and covered by foreign Fabric or Rexene and all surface are black colour coat finish etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.18.01	Armed chair standard normal (Otobi of CFVE003 / Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	4,413.89	4,413.89	4,413.89	4,413.89
11.18.02	Armed chair standard normal (Navana of FCF 2305 /CFVP011 / Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,854.08	5,854.08	5,854.08	5,854.08
11.18.03	Armed chair standard normal (Navana of FCF 2313 / Otobi/ Hatil/ Akther /Brothers or equivalent best quality)	each	5,801.11	5,801.11	5,801.11	5,801.11
11.18.04	Armed chair standard medium (Navana of FCF 2303/2304 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	6,305.56	6,305.56	6,305.56	6,305.56
11.18.05	Armed chair standard fancy light (Navana of FCF 2301/ Otobi CFVP005/Hatil/ Akther/ Brothers or equivalent best quality)	each	6,658.67	6,658.67	6,658.67	6,658.67
11.18.06	Armed chair standard fancy heavy (Navana of FCF 2302 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,818.89	7,818.89	7,818.89	7,818.89
11.18.07	Armed chair standard fancy heavy (Otobiof CFVP006/007 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,197.22	8,197.22	8,197.22	8,197.22
11.18.08	Armed chair standard fancy heavy (Navana of FCV 2207/CFVP008/ Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,719.44	10,719.44	10,719.44	10,719.44
11.18.09	Armed chair standard fancy heavy (Navana of FCV 2209/2210/ Otobi/Hatil/ Akther/ Brothers or equivalent best quality)	each	11,602.22	11,602.22	11,602.22	11,602.22
11.18.10	Armed chair standard fancy heavy (Otobi of CFVP053 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	11,602.22	11,602.22	11,602.22	11,602.22
11.18.11	Armed chair standard fancy heavy (Navana of FCV 2204 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	12,611.11	12,611.11	12,611.11	12,611.11
11.18.12	Armed chair standard fancy heavy (Otobi of CFVP012 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	13,620.00	13,620.00	13,620.00	13,620.00
11.19	Supplying best quality armless Chair (wooden sit and back) of standard size made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	693.61	693.61	693.61	693.61
11.20	Supplying best quality armless Visitor Chair of official standard special size of zinc phosphate coated oven backed powder paint finish stainless steel tube body with 4 legs. Foam cushioning seat and back pasted on imported ply wood and covered by foreign Fabric /Rexene and all surface are black colour coat finish etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.20.01	Armless chair standard normal (Otobi of CFVE002 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	2,774.44	2,774.44	2,774.44	2,774.44
11.20.02	Armless chair standard normal (Navana of FCF 2307 LR /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	3,152.78	3,152.78	3,152.78	3,152.78
11.20.03	Armless chair standard normal (Navana of FCF 2307 FF /Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	3,468.06	3,468.06	3,468.06	3,468.06
11.20.04	Armless chair standard normal (Otobi of CFVE005/006 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	3,531.11	3,531.11	3,531.11	3,531.11
11.20.05	Armless chair standard medium (Navana of FCF 2308 LR/ Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	4,792.22	4,792.22	4,792.22	4,792.22

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.20.06	Armless chair standard medium (Navana of FCF 2308 FF /Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	5,422.78	5,422.78	5,422.78	5,422.78
11.20.07	Armless chair standard fancy light (Otobi of CFVP001 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,548.89	5,548.89	5,548.89	5,548.89
11.20.08	Armless chair standard fancy thick Plastic seat and back (Otobi of CFVP057 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	6,053.33	6,053.33	6,053.33	6,053.33
11.20.09	Armless chair sytandard fancy light (Otobi of CFVP010 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	6,557.78	6,557.78	6,557.78	6,557.78
11.20.10	Armless chair standard fancy light (Otobi of CFVP030 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,818.89	7,818.89	7,818.89	7,818.89
11.21	Supplying Dress stand of standard size, made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	3,783.33	3,783.33	3,783.33	3,783.33
11.22	Supplying Dress stand of standard size with coat rack on one side, made of best quality well matured, fully seasoned jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	3,909.44	3,909.44	3,909.44	3,909.44
11.24	Supplying Almirah without front glass (Size:1.52mx1.07mx0.46m) with 4 shelves, made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	29,005.56	29,005.56	29,005.56	29,005.56
11.25	Supplying Almirah with front glass (Size:1.52mx1.07mx0.46m) with 4 shelves, made of best quality well matured, fully seasoned Chittagong Teak wood (timber should be sapless) in/c superior quality varnishing/ French polishing and finishing, in/c glass front, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place).	each	29,636.11	29,636.11	29,636.11	29,636.11
11.26	Supplying Steel Almirah (Size:1.83mx0.91mx0.61m) with required number of drawers, made of 18 BWG MS sheet at front and two parallel sides and 20 BWG MS sheet at back side as per approved design and specification in/c superior quality painting with synthetic (BERGER/equivalent) enamel paint in/c welding, plane surfacing, denting points, fitting and fixing standard lock with two sets of keys and also lock in drawers etc. all complete as per direction of the E-I-C. (Rate is inclusive of delivering the furniture at the selected school).	each	26,759.52	26,759.52	26,759.52	26,759.52
11.27	Supply of best quality Steel Almirah made of rivet less fully mig welded 0.7 & 0.8 mm thick imported cold rolled mild steel. All surface of Mild steel (MS) chemically de-rusted, zinc phosphate coated and oven backed powder paint finish with high quality imported S type handle with office lock. Inside constructed with one fixed shelf with two nos. drawer and three nos. height adjustable shelves on MS slot. Almirah to be stands on box type MS leg. All bands are created by automatic banding machine and all surface are black colour coat finish etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.27.01	Steel Almirah 915Wx483Dx1929H mm size of Navana FAE4201/ Otobi/Hatil/ Akther/ Brothers or equivalent best quality)	each	34,050.00	34,050.00	34,050.00	34,050.00

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.28	Supplying Steel File Cabinet (Size:1.37m x0.46mx0.61m) with 4 drawers made of 18 BWG MS sheet as per approved design and specification in/c superior quality painting with synthetic (BERGER/equivalent) enamel paint, welding, plain surfacing, denting points all finishing, fitting and fixing standard lock with two sets of keys and also lock in drawers etc. all complete as per direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	18,297.46	18,297.46	18,297.46	18,297.46
11.29	Supply of best quality Steel File Cabinet made of rivet less fully mig welded 0.7 & 0.8 mm thick imported cold rolled mild steel. All surface of Mild steel (MS) chemically de-rusted, zinc phosphate coated and oven backed powder paint finish with high quality imported PVC handle with Center lock. Inside constructed rollers with solid steel bearings for smooth operation of sliding drawer. File Cabinet to be stands on same flat bed. All bands are created by automatic banding machine and all surface are black colour coat finish etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.29.01	Steel File Cabinet 4 drawerof 476Dx620Wx 1390H mm size of Otobi FCOP003MS/ Navana/ Hatil/Akther/Brothers or equivalent best quality)	each	29,256.52	29,256.52	29,256.52	29,256.52
11.29.02	Steel File Cabinet 3 drawer of 476Dx620Wx 1070H mm size of Navana FCT 4230/Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	21,626.79	21,626.79	21,626.79	21,626.79
11.29.03	Steel File Cabinet 2 drawer of 476Dx620Wx 746H mm size of Navana FCD 4230/Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	17,655.56	17,655.56	17,655.56	17,655.56
11.30	Supplying Steel Chest of Drawer (Size:1.37m x1.22mx0.53m) with 4 shelves, made of 18 BWG MS sheet as per approved design and specification in/c superior quality painting with synthetic (BERGER/equivalent) enamel paint, welding, plain surfacing, denting points all finishing, fitting and fixing standard lock with two sets of keys and also lock in drawers etc. all complete as per direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	30,088.85	30,088.85	30,088.85	30,088.85
11.31	Supplying Wooden Whatnot (Size:1.22mx0.38mx0.91m) with 3 shelves, made of best quality well matured, fully seasoned Jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, etc. all complete as per design (if provided) and direction of the E-I-C. (This item includes all fittings, fixings and delivering the furniture at the instructed place)..	each	7,314.44	7,314.44	7,314.44	7,314.44
11.32	Supplying Wooden Box (Size:1.22mx0.91mx0.76m) made of best quality well matured, fully seasoned Jack wood (timber should be sapless) in/c superior quality varnishing/French polishing and finishing, locking arrangement, etc all complete as per design (if provided) and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).	each	4,413.89	4,413.89	4,413.89	4,413.89
11.33	Supplying Multipurpose shelf of standard Colour & size of local best quality, 16mm thick scrach proof and termite proof finished malamine laminated wood particle board with in top, bottom, two short side and shelf PVC edging i/c 4 nos shelvs, 3nos front side are covered by 3mm sliding glass on PVC channel and one no. shelf covered by laminated board shutter with hinge, handle and tower bolt. Back side covered by 5mm thick ply wood. Fully knowed down system by using Housing, Dowels, T-nut, JRN nut, wood pin etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.33.01	Multipurpose shelf beech colour (size :1200Lx 400Dx1800Hmm) (Navana of HSM 0380 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	17,298.66	17,298.66	17,298.66	17,298.66

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.33.02	Multipurpose shelf beech colour (size 800Lx 400Dx1800Hmm) (Navana of HSM 0381 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	12,611.11	12,611.11	12,611.11	12,611.11
11.33.03	Multipurpose shelf beech colour (size :600Lx 300Dx1800Hmm) (Navana of HSM 0387 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	10,088.89	10,088.89	10,088.89	10,088.89
11.33.04	Multipurpose shelf beech colour (size :800Lx 350Dx1800Hmm) (Navana of HSM 0386 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	11,602.22	11,602.22	11,602.22	11,602.22
11.33.05	Multipurpose shelf beech colour (size : 600Lx 350Dx1800Hmm) (Navana of HSM 0382 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	10,593.33	10,593.33	10,593.33	10,593.33
11.34	Supplying Computer table of standard Colour & size of local best quality, made by 16mm thick scrach proof and termite proof finished malamine laminated wood particle board with PVC edging i/c CPU, UPS, Monitor, Printer & Mouse etc. placing arrangement and attached keyboard tray slided by channel and wheel etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.34.01	Computer Table (size :1200Lx600Dx7 50Hmm) (Otobi of TEOB002LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	12,611.11	12,611.11	12,611.11	12,611.11
11.34.02	Computer Table (size :1100Lx600Dx 750Hmm) (Otobi of TCCP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	13,553.16	13,553.16	13,553.16	13,553.16
11.34.03	Computer Table (size :910Lx450Dx 750Hmm) (Otobi of SROP007LB /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	10,088.89	10,088.89	10,088.89	10,088.89
11.34.04	Computer Table (size 1000Lx500Dx 750Hmm) (Navana of FTC 0661 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	8,827.78	8,827.78	8,827.78	8,827.78
11.34.05	Computer Table (size :1050Lx450Dx 700Hmm) (Otobi of TCCP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	12,106.67	12,106.67	12,106.67	12,106.67
11.34.06	Computer Table (size :800Lx500Dx 1400Hmm) (Otobi of TCCP007LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	11,097.78	11,097.78	11,097.78	11,097.78
11.34.07	Computer Table (size 600Lx480Dx750Hmm) (Navana of FTC 0660 /Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	5,296.67	5,296.67	5,296.67	5,296.67
11.35	Supplying Side Rack of standard Colour & size of local best quality made by 16mm thick scrach proof and termite proof Laminated Melamine Board (LB) with PVC edging i/c interior side 1 no. shelf and front side two nos. sliding shutter of same materials on PVC channel with hinge, handle, lock and tower bolt. Top and two side covered by Laminated Melamine Board (LB) and back side covered by 5mm thick ply wood i/c all body black /beech colour. etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.35.01	Side Rack : 900Wx400Dx750H mm size of Navana FCB 0651/Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	8,512.50	8,512.50	8,512.50	8,512.50
11.35.02	Side Rack : 750Wx400Dx750H mm size of Navana FCB 0652/Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	7,629.72	7,629.72	7,629.72	7,629.72
11.36	Supplying Slotted Angle Rack. of best quality fully knock down system steel open rack, structure made of 2mm thick mild steel angle. 5 nos. height adjustable shelves are made of 0.7 & 0.8mm thick mild steel. All surface of mild steel zinc phosphate coated and oven backed powder paint of black colour etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place).					
11.36.01	Slotted Angle Rack (size : 1200Lx600Dx 1800H mm size) (Otobi of SROP002MS /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	30,518.89	30,518.89	30,518.89	30,518.89
11.36.02	Slotted Angle Rack (size : 1145Lx300Dx 1830H mm size) (Navana of FRS 4251 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	19,295.00	19,295.00	19,295.00	19,295.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.37	Supplying Class Room Chair made of best quality MS box tube frame of standard thickness and size in black or any other approved colour with right side folding handle for writing purpose made with local best quality malamine board and same MS box tube frame. Seat and back made with same malamine board fitted with MS box tube with smooth finishing etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.37.01	Class Room Chair with bottom metal netting basket (Navana of FCC 2353 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,341.11	10,341.11	10,341.11	10,341.11
11.37.02	Class Room Chair with bottom metal netting basket (Hatil of HPL-508-203-10-1-00 / Navana/ Otobi/ Akther/Brothers or equivalent best quality)	each	6,936.11	6,936.11	6,936.11	6,936.11
11.37.03	Class Room Chair seat and back foam covering without basket (Navana of FCC 2351/Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	5,548.89	5,548.89	5,548.89	5,548.89
11.37.04	Class Room Chair without basket (Navana of FCC 2352 / Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	5,296.67	5,296.67	5,296.67	5,296.67
11.38.01	Supplying three seated group chair made by best quality Mild Steel frame of standard size and thickness of smooth painted surface with Stailess steel box handle of standard size and thickness. Seat and back made by Mild Steel sheet with standard colour coating and smooth finishing etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.38.01.01	MS three seated group chair (size :1430Lx 700W X890Hmm) (Navana of FCT 4274 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	21,754.17	21,754.17	21,754.17	21,754.17
11.38.02	Supplying three seated group chair made by best quality Mild Steel frame of standard size and thickness of smooth painted surface without handle. Seat and back made by high strength thick plstic sheet with smooth finishing and standard colour etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.38.02.01	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) (Otobi of CFWP007 /Navana/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	18,664.44	18,664.44	18,664.44	18,664.44
11.38.02.02	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) (Otobi of CFWP003 /Navana/Hatil/Akther/Brothers or equivalent best quality) with drawer unit	each	15,448.61	15,448.61	15,448.61	15,448.61
11.38.02.03	Plastic three seated group chair with MS box seat and back frame (size :1430-1320Lx700-500WX890-800Hmm) (Otobi of CFWP004 / Navana/ Hatil/ Akther/ Brothers or equivalent best quality) with drawer unit	each	10,719.44	10,719.44	10,719.44	10,719.44
11.38.03	Supplying three seated group chair made by best quality Mild Steel frame of standard size and thickness of smooth painted surface without handle. Seat and back made by standard thick and size Mehogini wood with smooth finishing and polishing fitted with ms box frame of standard size and thickness of smooth painted surface etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.38.03.01	Wooden three seated group chair (size :1320Lx500WX800Hmm) (Navana of FCT 4270 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	13,620.00	13,620.00	13,620.00	13,620.00

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.39	Supplying Laminated board Bed of standard size made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering of standard thickness with head board, leg board and two nos side rail in same standard thick and size fitted in rust proof clamp-screw and bed slats series of wooden batten and wood tex board, with best quality double or single mattress as in requiremenrts (excluding cost of mattress) etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.39.01	Single Bed 2036Lx1080Wx750Hmm size (Otobi of BSDB003LB /Navana/Hatil/Akther /Brothers or equivalent best quality)	each	18,664.44	18,664.44	18,664.44	18,664.44
11.39.02	Double Bed 2042Lx1540Wx845Hmm size (Otobi of BDDB019LB /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	25,222.22	25,222.22	25,222.22	25,222.22
11.39.03	Double Bed 2050Lx1668Wx700Hmm size (Otobi of BDDB007LB /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	27,492.22	27,492.22	27,492.22	27,492.22
11.40	Supplying Wooden Bed of standard size made of best quality well mature full seasoned termite proof Chittagong Teak wood of standard thickness with head board, leg board and two nos side rail in same standard thick and size wood of superior quality natural fiber polishing and finishing fitted in rust proof clamp-screw and bed slats series of wooden batten and wood tex board, with best quality double or single mattress as in requiremenrts (excluding cost of mattress) etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.40.01	Single Bed 2036Lx1080Wx750Hmm size (Otobi of BSDP009WD /Navana/Hatil/Akther /Brothers or equivalent best quality)	each	40,733.89	40,733.89	40,733.89	40,733.89
11.40.02	Double Bed 2050Lx1540Wx800Hmm size (Otobi of BDDP050WD /Navana/Hatil/Akther /Brothers or equivalent best quality)	each	44,769.44	44,769.44	44,769.44	44,769.44
11.40.03	Double Bed 2084Lx1600Wx1050Hmm size (Otobi of BDDP089WD /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	64,568.89	64,568.89	64,568.89	64,568.89
11.40.04	Double Bed 2084Lx1600Wx1050Hmm size (Akther of AFL-BED-150 /Otobi/Navana/ Hatil/ Brothers or equivalent best quality)	each	73,144.44	73,144.44	73,144.44	73,144.44
11.40.05	Double Bed 2084Lx1540Wx1050Hmm size (Akther of AFL-BED-150 /Otobi/Navana/ Hatil/ Brothers or equivalent best quality)	each	66,838.89	66,838.89	66,838.89	66,838.89
11.41	Supplying single or double best quality Compressed mattress covered with PVC bag or febric of Foreign colour and size as per requirements with standard thickness etc. all complete as per direction of the E-I-C (This item includes all fittings fixings and delivering the the instructed place).					
11.41.01	Single mattress 2000mmx1000mm size with minimum 100mm thick of approved best quality	each	13,872.22	13,872.22	13,872.22	13,872.22
11.41.02	Single mattress 2000mmx1000mm size with minimum 200mm thick of approved best quality	each	20,808.33	20,808.33	20,808.33	20,808.33
11.41.03	Double mattress 2000mmx1600mm size with minimum 100mm thick of approved best quality	each	18,916.67	18,916.67	18,916.67	18,916.67
11.41.04	Double mattress 2000mmx1600mm size with minimum 200mm thick of approved best quality	each	24,591.67	24,591.67	24,591.67	24,591.67
11.42	Supplying Sofa set of single or double or tripple seated as in requirement of standard size and colour made by wooden body covered with thick compressed foam and foreign rexin or foreign febric of approved colour and design etc. all complete as per direction of the E-I-C (This item includes all fittings fixings and delivering at the instructed place).					
11.42.01	Single seated Sofa (Otobi of SSCP006FR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	10,719.44	10,719.44	10,719.44	10,719.44

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.42.02	Single seated Sofa (Otobi of SSCP012LR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	22,700.00	22,700.00	22,700.00	22,700.00
11.42.03	Single seated Sofa (Otobi of SSCP094FF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	32,788.89	32,788.89	32,788.89	32,788.89
11.42.04	Double seated Sofa (Otobi of SDCP006FR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	20,177.78	20,177.78	20,177.78	20,177.78
11.42.05	Double seated Sofa (Otobi of STCP007LR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	50,444.44	50,444.44	50,444.44	50,444.44
11.42.06	Double seated Sofa (Otobi of SDCP047FF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	52,966.67	52,966.67	52,966.67	52,966.67
11.43	Supplying Sofa set of single or double or tripple seated as in requirement of standard size and design made by best quality well mature full seasoned termite proof Chittagong Teak wood of standard thickness and size of superior quality natural fiber polishing and finishing with thick compressed foam and foreign rexene or foreign fabric cover of approved colour and design etc. all complete as per direction of the E-I-C (This item includes all fittings fixings and delivering at the instructed place).					
11.43.01	Wooden Single seated Sofa (Otobi of SDCE003FF /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	18,916.67	18,916.67	18,916.67	18,916.67
11.43.02	Wooden Double seated Sofa (Otobi of SSCE009FF /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	30,897.22	30,897.22	30,897.22	30,897.22
11.44	Supplying Center Table of standard size and design made by best quality well mature full seasoned termite proof Chittagong Teak wood of standard thickness and size with four legs and frames made with same wood of superior quality natural fiber polishing and finishing etc. all complete as per direction of the E-I-C (This item includes all fittings fixings and delivering at the instructed place). .					
11.44.01	Wooden Center Table (Otobi of CTCE008WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	8,827.78	8,827.78	8,827.78	8,827.78
11.44.02	Wooden Center Table (Otobi of CTCE009WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	10,088.89	10,088.89	10,088.89	10,088.89
11.44.03	Wooden Center Table (Otobi of CTCP049WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	10,719.44	10,719.44	10,719.44	10,719.44
11.45	Supplying Wooden Dining Table set of standard size made of best quality well mature full seasoned termite proof Chittagong Teak wood of standard thickness with four legs and frame in same standard thick and size wood of superior quality natural fiber polishing and finishing with 6mm thick glass top finishing smooth and rounded edge of glass etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.45.01	Wooden Dining Table (size : 1524Lx915W x 750H) (Otobi of TDDP018WD /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	35,311.11	35,311.11	35,311.11	35,311.11
11.45.02	Wooden Dining Table (size : 1650Lx950W x 750H) (Otobi of TDDP049WD /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	38,842.22	38,842.22	38,842.22	38,842.22
11.45.03	Wooden Dining Table (size : 1520Lx912Wx 744H) (Otobi of TDDP012MF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	40,986.11	40,986.11	40,986.11	40,986.11
11.45.04	Wooden Dining Table (size : 1650-1524Lx 950-915Wx750-744H) (Akther of AFL-DNT/DNC-119 /Hatil/Otobi/Navana/i/Brothers or equivalent best quality)	each	75,666.67	75,666.67	75,666.67	75,666.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.46	Supplying Laminated board Dining Table of standard size made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering. Of standard thickness and design with four legs and frame in best quality well mature full seasoned termite proof wooden frame of standard thick and size materials etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.46.01	Round shaped Dining Table (size : 1600LX910Wx730Hmm) (Otobi of TDDP001LB /Navana/Hatil/ Akther / Brothers or equivalent best quality)	each	16,394.44	16,394.44	16,394.44	16,394.44
11.47	Supplying wooden Dining Chair of standard size made of best quality well mature full seasoned termite proof Mhogini wood of standard thickness with four legs, frame in same standard thick and size wood of superior quality natural fiber polishing and finishing with minimum thick foam covered by rexene or Fabric finishing smooth all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.47.01	Wooden Dining Chair (size : 596LX586W x 1025Hmm) (Otobi of CFDP013LR /Navana/ Hatil/Akther/Brothers or equivalent best quality)	each	6,936.11	6,936.11	6,936.11	6,936.11
11.47.02	Wooden Dining Chair (size : 440LX522W x 950Hmm) (Otobi of CFDP049WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	8,827.78	8,827.78	8,827.78	8,827.78
11.47.03	Wooden Dining Chair (size : 410LX475W x 895Hmm) (Otobi of FCDB002FR /Navana/ Hatil/ Akther /Brothers or equivalent best quality)	each	7,566.67	7,566.67	7,566.67	7,566.67
11.47.04	Wooden Dining Chair (size : 410LX475W x 895Hmm) (Akther of AFL-DNT/DNC-119 /Hatil/Otobi/Navana/Brothers or equivalent best quality)	each	17,907.78	17,907.78	17,907.78	17,907.78
11.48	Supplying Wooden Wardrobe of standard size made of best quality well mature full seasoned termite proof Chittagong Teak wood of standard thickness with drawer and box as per requirements. Drawer run through smoothly of best quality wheel and channel or runner. Three sides, top and bottom covered with same wood and back side covered by 5mm thick ply wood. Furniture should be superior quality natural fiber polishing and finishing and use best quality handle, lock and key etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.48.01	4 Drawer Wooden Wardrobe (size: 830Lx515Wx1220Hmm) (Otobi of CDDP018ED /Navana/Hatil/Akther /Brothers or equivalent best quality)	each	42,877.78	42,877.78	42,877.78	42,877.78
11.48.02	2 Drawer and bottom side box Wooden Wardrobe (size: 830Lx515Wx1220Hmm) (Otobi of WDDP011ED/EDDP010WD /Navana/ Hatil/Akther/Brothers or equivalent best quality)	each	37,833.33	37,833.33	37,833.33	37,833.33
11.49	Supplying Laminated Melamine Board (LB) Wardrobe of standard size made of best quality imported 18mm thick scrach proof and termite proof Laminated Melamine Board (LB) with edge covering with drawer and box as per requirements. Drawer run through smoothly of best quality wheel and channel or runner. Three sides, top and bottom covered with same wood and back side covered by 5mm thick ply wood. Furniture should be use best quality handle, lock and key etc. all complete as per direction of the E-I-C. (This item includes all fittings fixings and delivering the furniture at the instructed place)					
11.49.01	4 Drawer and right side box Laminated Melamine Board (LB) Wardrobe (size: 1210L x 525W x1214Hmm) (Otobi of WDDP005LB / Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	31,527.78	31,527.78	31,527.78	31,527.78

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
11.49.02	4 Drawer Laminated Melamine Board (LB) Wardrobe (size: 806Lx503Wx1006Hmm) (Otobi of CDDB002KLB / Navana/ Hatil/ Akther / Brothers or equivalent best quality)	each	18,916.67	18,916.67	18,916.67	18,916.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 12 : Electro-Mechanical Works						
12.01	WINDOW TYPE AIR-COOLER Supply, Installation, Testing & Commissioning window type air-cooler with remote control of following cooling capacity based on indoor temperature 27°-30°C DB / 19.5°-22°C WB and outdoor temperature 35°-40°C DB at high fan speed condition suitable for installation & operation in tropicalized country like Bangladesh & as per detailed specifications & standard as mentioned below : - (1). Type : Window type (2).Compressor : Hermitically sealed reciprocating / rotary compressor. (3)Refrigerant : Internationally accepted & recommended gas (CFC free) (4). Blower motor : Well Balanced propeller type direct driven centrifugal type blower fan for condenser & evaporator with regulator (5). Power supply : 200-250V, single phase, 50 Hz. AC supply (6). Condensing pipe : Made of copper. (7). EER Minimum 8.5; [EER = (BTU/HR)/WATT]; COP Minimum 2.5 (W/W) (8) Other features : (8.1).Fancy & adjustable air circular louver. (8.2) Removable & washable filter. (8.3) Thermostat control switch. (8.4)Fresh air intake arrangement . Standard : Major component shall be manufactured as per relevant international standard & code. Documents :Manufacturing company shall have the following certificate. (1). ISO-9001. (2). CE Certification / UL Listing. Warranty : The bidder should provide the guaranty of compressor for at least 2 years & free service with spares for 2 years from the date of commissioning & it should be obtained from the air cooler selling agency. [PWD 7.1]					
12.01.01	Any brand manufactured or assembled in JAPAN / MALAYSIA / SOUTH KOREA / TAIWAN / THAILAND / USA / EU countries accepted / approved by the Engineer-in-charge. in accordance with fulfillment of the above specifications and having relevant certificates as mentioned. [PWD 7.1.1]					
12.01.01.01	17001 - 18000 BTU/HR capacity [PWD 7.1.1.1]	each	92,725.08	92,656.22	92,399.28	92,399.28
12.01.01.02	22501 - 24000 BTU/HR capacity [PWD 7.1.1.2]	each	109,119.17	109,051.33	108,794.39	108,794.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.02	SPLIT TYPE AIR-COOLER Supply, installation, testing & commissioning of split type air-cooler with inverter comprising condensing and evaporating units having following cooling capacity based on indoor temperature 27º-30ºC DB / 19.5º-22ºC WB and outdoor temperature 35º-40ºC DB at high fan speed condition suitable for installation & operation in tropicalized country like Bangladesh & as per detailed specifications & standard as mentioned below : OUTDOOR UNIT / CONDENSING UNIT (1). Type : Compact weather proof outdoor type condensing unit (2). Compressor : Hermitically sealed reciprocating / rotary compressor. (3). Refrigerant : Internationally accepted & recommended and most commonly used gas (CFC free) (4). Blower motor : Well balanced type direct driven centrifugal type blower fan (5). Power supply : (5.1). 200-250 V, single phase, 50 Hz. AC supply [up to 30000 BTU/HR] (5.2). 380-440 V 3-phase, 50 Hz. AC supply [above 30000 BTU/HR] (6). Condensing pipe / coil : Made of copper 7). EER/COP : For upto 60000 BTU/HR EER should be minimum 9.23 (BTU/HR)/WATT and COP Should be minimum 2.70 (W/W) For above 60000 BTU/HR EER should be minimum 10.5 (BTU/HR)/WATT and COP should be minimum=3.08 (W/W)(8). Others features : (8.1). Well balanced in all respect having interlock with the fan coil unit. (8.2). Compressor dully equipped with vibration isolator, thermostatic & overload controls, magnetic contactors and all other standard accessories complete. (8.3). Refrigerant copper pipe [From outdoor to indoor unit] with thermal insulation, refrigerant charging arrangement etc.[Minm length10 mtr.] (8.4). Reqd. size PVC insulated & sheathed cable with ECC through water grade PVC pipe from outdoor to indoor unit. (8.5) Sound level : maximum 65 dB(A) at 1 meter INDOOR UNIT / FAN COIL UNIT Features : (1). Direct expansion system fan coil unit with well balanced direct driven centrifugal type fan. (2). Fancy & adjustable air circulating louver grill, removable & washable type filter . (3). Condensing water drain out PVC flexible pipe with necessary insulation (4). Thermostatic switch and remote control switch. (5). Sound level : maximum 44 dB(A) at 1 meter Standard : Major component shall be manufactured as per relevant international standard & code. Documents :Manufacturing company shall have the following certificate : (1). ISO-9001. (2). CE Certification / UL Listing. Warranty : The bidder should provide the guaranty of compressor for at least 2 years & free service with spares for 2 years from the date of commissioning & it should be obtained from the air cooler selling agency. Any brand manufactured or assembled in JAPAN / MALAYSIA / SOUTH KOREA / TAIWAN / THAILAND / USA / EU countries accepted / approved by the engineer in accordance with fulfillment of the above specifications and having relevant certificates as mentioned. [PWD 7.2.1]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.02.01	Capacity : 17000-18000 BTU/HR; Wall mounted [PWD 7.2.1.2.1]	each	112,903.44	112,698.92	111,927.06	111,927.06
12.02.02	Capacity : 22500-24000 BTU/HR; Wall mounted [PWD 7.2.1.3.1]	each	125,514.28	125,309.75	124,537.89	124,537.89
12.02.03	Capacity : 28000-30000 BTU/HR; Wall mounted [PWD 7.2.2.1.1]	each	188,570.50	188,367.00	187,595.14	187,595.14
12.02.04	Capacity : 34000-36000 BTU/HR; Ceiling suspended [PWD 7.2.2.2.1]	each	227,666.14	227,461.61	226,689.75	226,689.75
12.02.05	Capacity : 46000-48000 BTU/HR; Ceiling suspended [PWD 7.2.2.3.1]	each	260,455.33	260,205.58	259,262.08	259,262.08
12.02.06	Capacity : 58000-60000 BTU/HR; Ceiling suspended [PWD 7.2.2.4.1]	each	314,194.75	313,945.00	313,001.50	313,001.50
12.02.07	Capacity : 22500-24000 BTU/HR; Cassette Type [PWD 7.2.1.3.4]	each	174,950.39	174,746.89	173,975.03	173,975.03
12.02.08	Capacity : 34000-36000 BTU/HR; Cassette Type [PWD 7.2.2.2.3]	each	254,149.92	253,900.17	252,956.67	252,956.67
12.02.09	Capacity : 46000-48000 BTU/HR; Cassette Type [PWD 7.2.2.3.3]	each	285,678.03	285,428.28	284,484.78	284,484.78
12.02.10	Capacity : 58000-60000 BTU/HR; Cassette Type [PWD 7.2.2.4.2]	each	329,818.00	329,568.25	328,624.75	328,624.75
12.03	HT (11 KV) SWITCHGEAR Supply of 11 KV, 3-phase, 50 Hz, indoor type, high tension switchgear complete with Load Break Switch (LBS), 800 A hard-drawn electrolytic copper bus-bars, 1 No. 0-15 KV range digital voltmeter & 1 no. digital ammeter of adequate ranges both with selector switch, 1 no. of panel heater with auto thermostat control switch, manual ON & OFF push button switch and indicators including following components such as LBS, HR.C fuse, CT, PT shall be manufactured & tested as per NEMA / VDE / IEC / JIS / BS Standards along with relevant BDS standard assembled locally in 14 SWG sheet steel clad, dust & vermin proof, free standing, floor mounting, epoxy resin powder coat painted cabinet as per relevant IEC standards and as per accepted / approved by the Engineer-in-charge. Panel board is provided with capacitive information level and all types of danger sign. All doors of panel board are connected by ECC with earthing bus bar. In case of 630 KVA or above capacity sub-station, the switchgear panel shall have to be furnished with audible alarm & auxiliary relays for sensing signals from buchholz relay and operation of HT switchgear. CT Ratio (to be chosen as per capacity):- For 100-150 KVA transformer 10/5 For 200-250 KVA transformer 15/5 For 300-315 KVA transformer 20/5 For 400 KVA transformer 25/5 For 500 KVA transformer 30/5 [PWD 2.1.1]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.03.01	With LBS (Load Break Switch) 1 Set of 11 KV, 630 A (36KA), 50 Hz, triple pole, manually operated off load isolator interlocked with earth switch. 1 Set of 11 KV. 630A (36KA). 50 Hz, spring charged, stored energy mechanism triple pole load break switch (LBS) complete with 3 no's of 11 KV HR.C fuse of suitable Amps. (25KA) with spring operated striker pin plunger for automatic tripping activated by any of the thr.ee fuses blow-up. 2 Nos. of 11 KV, double pole, cast resin insulated, dry type Potential transformer (P.T.) having ratio 11/0.11. 50VA, class 0.5 for metering. 3 Nos. of 11 KV, cast resin insulated, dry type, single core Current transformer (C.T.) having adequate current ratio (compatible with the transformer capacity) burden 10-15VA of class 0.5 M5 for metering 1 No of 415V, 6A (10 KA), 50 Hz. TPMCB for PT secondary protection. Assembled by the valid ISO-9001 certified company having test certificate (within at least 5 years) according to relevant IEC standards from BUET/RUET/CUET/KUET/DUET/MIST. [PWD 2.1.1.1]	each	414,281.81	414,281.81	414,281.81	414,281.81

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.03.02	With withdrawable type VCB (vacuum circuit breaker) Supply of 11 KV, 3-phase, 50 Hz, indoor type, high tension switchgear complete with Vacuum Circuit Breaker, 800 A hard-drawn electrolytic copper bus-bars, 1 No 0-15 KV range voltmeter & 1 no. ammeter of adequate range both with selector switch, 1 no. of panel heater with auto thermostat control switch, manual ON & OFF push button switch and ON-OFF-TRIP indicators including following components such as VCB, CT, PT, microprocessor controlled IDMT relay shall be manufactured as per NEMA / VDE / IEC / JIS / BS standards along with BDS IEC 60076, PART 1: 2016 shall have test certificate (within 5 years) according to relevant IEC standard assembled locally in 14 SWG sheet steel metal clad, dust & vermin proof, free standing, floor mounting, epoxy resin powder coat painted cabinet as per relevant IEC standards and as per accepted / approved by the Engineer-in-charge. Panel board is provided with capacitive information level and all types of danger sign. All doors of panel board are connected by ECC with earthing bus bar. In case of 630 KVA or above capacity sub-station, the switchgear panel shall have to be furnished with audible alarm & auxiliary relays for sensing signals from buchholz relay and operation of HT switchgear. CT Ratio (to be chosen as per capacity) : - For 500 KVA transformer 30/5/5 For 630 KVA transformer 40/5/5 For 800 KVA transformer 50/5/5 For 1000 KVA transformer 60/5/5 For 1250 KVA transformer 70/5/5 For 1500 KVA transformer 80/5/5 For 2000 KVA transformer 110/5/5 With withdrawable type VCB (vacuum circuit breaker) 1 Set of 11KV, 630 Amps (36KA), 3-phase, 50 Hz, trolley mounted fully withdrawable type Vacuum Circuit Breaker complete with motor operated spring charged stored energy mechanism for auto tripping at 12 / 24 / 48 / 110 volts D.C (without battery) . 2 Nos. 11 KV, cast resin insulated, dry type; double pole PT having ratio 11/0.11, burden 50VA, class 0.5 for metering & protection. 3 Nos. 11 KV cast resin insulated, dry type, double core CT of adequate current ratio (compatible with the transformer capacity), burden 10-15 VA, first core of class 0.5 M5 for metering and second core of class 10P10 for protection. 1 No of Triple pole solid-state microprocessor control IDMT relay with 2 elements of over current and short circuit protection and one for earth fault protection. 1 No. 415V, 6A (10KA) TPMCB for PT secondary protection. Assembled by the valid ISO-9001 certified company having test certificate (within at least 5 years) according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.1.2]	each	1,082,682.69	1,082,682.69	1,082,682.69	1,082,682.69
12.04	OIL TYPE TRANSFORMER Supply of following oil-immersed, natural air cooled, 3-phase, 50-Hz, 11KV/0.415 KV & 0.24 KV indoor/outdoor type distribution transformer of DYN11 vector group complete with two windings of high conductivity copper having basic impulse insulation level 75 KV dielectric strength 28 KV (for 1 min), HT & LV porcelain bushings, manual 5 position (0, -2.5%, 5%) standard tap changer, conservator. thermometer, oil inlet & outlet valves, oil level indicator, dehydrating breather, lifting lugs, earthing terminals, wheel, rating and diagram nameplate etc. including painting, suitable for operation at 40°C ambient temperature with maximum temperature rise 60°C, locally manufactured and tested as per NEMA / VDE IEC/BS standards along with BDS IEC 60076,PART 1: 2016 as per accepted/approved by the Engineer-in charge. [PWD 2.1.4]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.04.01	(a) Capacity : 150 KVA (b) No load loss : 350 watts (maximum) (c) Full load loss :2400 watts (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 certitied company haying test cenificate (within 5 years) for the required or higher capacity of transformer according to relevanl IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.3.1]	each	495,282.00	495,282.00	495,282.00	495,282.00
12.04.02	(a) Capacity : 200 KVA (b) No load loss : 500 watts (maxinum) (c) Full load loss: 2800 wans (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test certificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards fiom BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.4.1]	each	576,358.25	576,358.25	576,358.25	576,358.25
12.04.03	(a) Capacity : 250 KVA (b) No load loss : 750 watts (maximum) (c) Full load loss : 4900 watls (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 cenified company having test certificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.5.1]	each	667,568.39	667,568.39	667,568.39	667,568.39
12.04.04	(a) Capacity :300/315 KVA (b) No load loss : 800watts (maximum) (c) Full load loss: 5000 wans (maxinlum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test certificate (within 5 years) for thc required or higher capacity of transformer according to relevant IUC standards fiom BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.6.1]	each	768,912.42	768,912.42	768,912.42	768,912.42
12.04.05	(a) Capacity : 400 KVA (b) No load loss : 850 waus (maximum) (c) Full load loss : 5200 watts (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 cenified company having test certificate (within 5 years) for the required or higher capacity of transformer according to relevanl IEC standards fiom BUET /RUET/ CUET / KUET /DUET/MIST. [PWD 2.1.4.7.1]	each	953,235.11	953,235.11	953,235.11	953,235.11
12.04.06	(a) Capacity : 500 KVA (b) No load loss : 1000 watts (maximum) (c) Full load loss : 5800 watts (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 certil'jed company having test cenificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards liom BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.8.2]	each	1,099,062.39	1,099,062.39	1,099,062.39	1,099,062.39
12.04.07	(a) Capacity: 600 / 630 KVA with buchholz relay. (b) No load loss : 1200 watts (maximum) (c) Full load loss : 7500 watts (maximum) (d) Percentage Impedance : 4% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test cenificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.9.2]	each	1,337,904.58	1,337,904.58	1,337,904.58	1,337,904.58

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.04.08	(a) Capacity: 800 KVA with buchholz relay. (b) No load loss : 1400 watts (maximum) (c) Full load loss:9000 wans (maximum) (d) Percentage Impedance : 5% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test cenificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards ftom BtiET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.10.2]	each	1,730,565.03	1,730,565.03	1,730,565.03	1,730,565.03
12.04.09	(a) Capacity: 1000 KVA with buchholz relat. (b) No load loss : 1800 watts (maxinrum) (c) Full load loss : 12000 wans (maximum) (d) Percentage Impedance : 5% @±10% at 75'C Manufactured by the valid ISO-9001 certified comPany having test certificate (within 5 years) for the required or higher caPacity of transformer according to releYant IEC standards fiom BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.11.2]	each	1,977,173.11	1,977,173.11	1,977,173.11	1,977,173.11
12.04.10	(a) Capacity: 1250 KVA with buchholz relay. (b) No load loss : 2000 watts (maximum) (c) Full load loss : 15000 watrs (maximum) (d) Percentage Impedance : 5% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test cenificate (within 5 years) for the required or higher capacity of transformer according lo relevant IEC standards fiom BUET /RUET/ CUET / KUET /DUET/ MIST, [PWD 2.1.4.12.2]	each	2,348,607.89	2,348,607.89	2,348,607.89	2,348,607.89
12.04.11	(a) Capacity: 1500 / 1600 KVA with buchholz relay. (b) No load loss : 2200 wans (maximum) (c) Full load loss : 18000 watts (maximum) (d) Percentage Impedance : 6% @±10% at 75'C Manufactured by the valid ISO-9001 cenified company having rest certificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards fiom BUET /RUET/ CUET / KUET iDUETl MIST. [PWD 2.1.4.13.2]	each	2,826,167.92	2,826,167.92	2,826,167.92	2,826,167.92
12.04.12	(a) Capacity: 2000 KVA with buchholz relay. (b) No load loss : 2400 wans (maximum) (c) Full load loss:20000 wans (maximum) (d) Percentage Impedance : 6% @±10% at 75'C Manufactured by the valid ISO-9001 certified company having test certificate (within 5 years) for the required or higher capacity of transformer according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.4.14.2]	each	3,515,976.39	3,515,976.39	3,515,976.39	3,515,976.39
12.05	DRY TYPE TRANSFORMER Supply of following dry type cast resin, natural air cooled.3-phase,50H2, I I KV / 0.415 KV & 0.24 KV indoor type distribution transformerof DYNI I vector group having basic impulse insulation level 75 KV'HV & LV bushings, manual 5 position standard tap changer, completewith two windings of high conductivity aluminum foil with insulationmaterial in class H, earthing terminals, temperature sensor withthermometer, thermostat controlled blower fan (ifrequired), lifting lugs,data plate etc. complete as required wilh maximum 60oC temperaturerise and suitable for operation at 40'C ambienl lemperature, at 75'C fullload loss & i[rpedance condition manulactured & type tested as perNEMA / IEC / VDE / BS / JIS standard along with BDS IEC 60076,PART I: 2016 standards as per approval / acceptance by the Engineerin-charge. [PWD 2.1.5]					
12.05.01	(a) Capacity : 800 KVA(b) No load loss : I700 watts (maximum)(c) Full load loss:7600 waus (maximum)(d) Percentage Impedance : 5% @±10% at 75'C [PWD 2.1.5.1]	each	2,294,001.03	2,294,001.03	2,294,001.03	2,294,001.03
12.05.02	(a) Capacity : 1000 KVA(b) No load loss : 2000 watls (maximum)(c) Full load loss: 8700 watts (maximum)(d) Percentage Impedance : 5% @±10% at 75'C [PWD 2.1.5.2]	each	3,103,648.39	3,103,648.39	3,103,648.39	3,103,648.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.05.03	(a) Capacity : 1250 KVA(b) No load loss : 2300 watts (maximum)(c) Full load loss: 10500 watts (maximum)(d) Percentage Impedance : 5% @±10% at 75'C [PWD 2.1.5.3]	each	3,608,102.28	3,608,102.28	3,608,102.28	3,608,102.28
12.05.04	(a) Capacity: 1500 / 1600 KVA.(b) No load loss : 2800 watts (maximum)(c) Full load loss : 13500 watts (maximum)(d) Percentage Impedance : 6% @±10% at 75'C [PWD 2.1.5.4]	each	4,102,782.00	4,102,782.00	4,102,782.00	4,102,782.00
12.05.05	(a) Capacity: 2000 KVA(b) No load loss: 3500 watts (Maximum)(c) Full load loss: 16000 watts (Maximum)(d) Percentage Impedance : 6% @±10% at 75'C [PWD 2.1.5.5]	each	4,695,829.31	4,695,829.31	4,695,829.31	4,695,829.31
12.06	LT SWITCHGEAR Supply of 415 V, 3-phase, 50 Hz, indoor type low tension switch-gear of following specification complete with digital voltmeter (0-500V) & ammeter of adequate rating both with selector switch, indicating lamps for ON-OFF and following components (components such as TPMCCBs shall be manufactured according to NEMA / VDE / IEC / JIS / BS standards along with relevant BDS standard shall have type test certificate (within 5 years) according to relevant IEC Standard) assembled locally in 14 SWG sheet steel metal clad, dust & vermin proof, free standing, floor mounting, epoxy resin powder coat painted cabinet as per relevant IEC standards and as per accepted / approved by the Engineer-in-charge. Panel board is provided with capacitive information level and all types of danger sign. All doors of panel board are connected by ECC with earthing bus bar. Assembled by the valid ISO-9001 certified company having test certificate (within at least five years) according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. circuit Breaker equivalent accepted / approved by the Engineer-in-charge. [PWD 2.1.7]					
12.06.01	For 150 KVA Transformer INCOMING 1 Set- 415V, 300A TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 250A (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 250/5 ratio current transformer with suitable accuracy & burden. OUTGOING 2 Nos. - 415V, 150/160A (25KA), adjustable type TPMCCB with thermal overload & instantaneous electromagnetic short-circuit release (one for PFI control). 1 Nos. - 415V, 100A (16KA), TPMCCB with thermal overload & instantaneous electromagnetic short circuit release 1 Nos. - 415V, 60/63A (16KA) TPMCCB with thermal over load & instantaneous electro-magnetic short-circuit release. 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal over load & instantaneous electromagnetic short-circuit release. [PWD 2.1.7.2]	each	226,057.67	226,057.67	226,057.67	226,057.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.06.02	For 200 KVA transformer: INCOMING 1 Set- 415V, 400 amps. TP&NE hard drawn electrolytic copper bus bar 1 No. - 415V, 300 / 320 Amps (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electromagnetic short circuit release. 3 no.s-415V, 300/5 ratio current transformer with suitable accuracy & burden.. OUTGOING 1 No. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electromagnetic short circuit release (for PFI control). 1 No. - 415V, 150/160 (25KA) adjustable type TPMCCB with thermal overload & instantaneous electromagnetic short circuit release 2 Nos. - 415V, 100A (25KA) TPMCCB with thermal over current & instantaneous electromagnetic short circuit release. 1 No. - 415V, 60/63A (16KA), TPMCCB with thermal overload & instantaneous electromagnetic short-circuit release. 1 No. - 415V, 30/32A (16KA) TPMCCB with thermal overload & instantaneous electromagnetic short-circuit release. [PWD 2.1.7.3]	each	267,991.00	267,991.00	267,991.00	267,991.00
12.06.03	For 250 KVA transformer : INCOMING 1 Set- 415V, 500 amps. TP&NE hard drawn electrolytic copper bus bar. 1 No. - 400 Amps (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 400/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short-circuit & release (for PFI control). 2 Nos. - 415V, 150 / 160A (25KA) adjustable type TPMCCB with thermal overload & instantaneous electromagnetic short circuit & release. 2 Nos. - 415V, 100A (16KA) TPMCCB with thermal overload & instantaneous electromagnetic short-circuit & release. 1 No. - 415V, 60 / 63A (16KA) TPMCCB with thermal overload & instantaneous electromagnetic short-circuit & release. 1 No. - 415V, 30/32A (16KA) TPMCCB with thermal overload & instantaneous electromagnetic short-circuit & release. [PWD 2.1.7.4]	each	315,914.22	315,914.22	315,914.22	315,914.22

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.06.04	For 300 / 315 KVA transformer : INCOMING 1 Set - 415V, 600 amps TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 500 Amps (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 500/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 300A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electromagnetic short circuit release (For PFI Control). 1 No. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 150 / 160A (25KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 60/63A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.5]	each	348,860.67	348,860.67	348,860.67	348,860.67
12.06.05	For 400 KVA transformer: INCOMING 1 Set - 415V, 800A TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 600 / 630A (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 No's. - 415V, 600/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1No. - 415V, 400A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release (for PFI Control). 1 No. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 150 / 160A (25KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release 1 No. - 415V, 60 / 63A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release [PWD 2.1.7.6]	each	435,721.25	435,721.25	435,721.25	435,721.25

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.06.06	For 500 KVA transformer: INCOMING 1 Set - 415V, 1000 amps TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 800 Amps (50KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 800/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No.-415V, 500 Amps (36KA), adjustable type TPMCCB for main control with thermal overload & instantaneous electro-magnetic short circuit release (for PFI control). 2 Nos. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 150 / 160A (25KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 60 / 63A (16KA) 415V TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) 415V TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.7]	each	594,120.31	594,120.31	594,120.31	594,120.31
12.06.07	For 600 / 630 KVA transformer: INCOMING 1 Set - 415V, 1200A, TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 1000A (65KA), adjustable type ACB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 No's - 415V, 1000/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 600A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release (for PFI control). 3 Nos. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 150/160A (25KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 100A (16KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) 415V TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.8]	each	783,730.92	783,730.92	783,730.92	783,730.92

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.06.08	For 800 KVA transformer: INCOMING 1 Set - 415V, 1500 amps TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 1200/1250 Amps (65KA), adjustable type ACB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 1200/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 800A (50KA) adjustable type TPMCCB with instantaneous electro-magnetic short circuit release (for PFI control). 2 Nos. - 415V, 300 / 320A (36KA) adjustable type TPMCCB with instantaneous electro-magnetic short circuit release. 4 Nos. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 150/160A (25KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.9]	each	899,944.83	899,944.83	899,944.83	899,944.83
12.06.09	For 1000 KVA transformer: INCOMING 1 Set- 415V, 1800 TP & NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 1600A (65KA), adjustable type ACB for main control overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 1600 / 5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 1000A (65 KA) adjustable type ACB with thermal overload & instantaneous electro-magnetic short circuit release (for PFI control). 2 Nos. - 415V, 300 / 320A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 6 Nos. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 100A (16KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.10]	each	1,397,272.11	1,397,272.11	1,397,272.11	1,397,272.11
12.06.10	For 1250 KVA transformer: INCOMING 1 Set- 415V, 2500A TP & NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 2000A (65KA), adjustable type ACB for main control overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 2000 / 5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 1250A (65KA) adjustable type ACB with instantaneous electro-magnetic short circuit release. (For PFI control). 1 No. - 415V, 400A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 300 /320A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 4 Nos. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 80A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30 / 32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.11]	each	1,586,883.75	1,586,883.75	1,586,883.75	1,586,883.75

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.06.11	For 1500 / 1600 KVA Transformer: INCOMING 1 Set - 415V, 3000 amps TP&NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 2200A (65KA), adjustable type ACB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 2500/5 ratio current transformer with suitable accuracy & burden. OUTGOING 1 No. - 415V, 1600A (65KA) adjustable type ACB with instantaneous electro-magnetic short circuit release (for PFI control). 1 No. - 415V, 600A (36KA) adjustable type TPMCCB with instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 400A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 4 Nos. - 415V, 300/320A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 2 Nos. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 100A (16KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30/32A (16KA) TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. [PWD 2.1.7.12]	each	1,788,728.00	1,788,728.00	1,788,728.00	1,788,728.00
12.06.12	For 2000 KVA transformer: INCOMING 1 Set. - 415V, 3200A TP & NE hard drawn electrolytic copper bus bar. 1 No. - 415V, 3000A (65KA), adjustable type ACB for main control with thermal overload & instantaneous electro-magnetic short circuit release. 3 Nos. - 415V, 3000 / 5 ratio current transformer with suitable accuracy & burden. OUTGOING : 1 No. - 415V, 2000A (65KA) adjustable type ACB with instantaneous electro-magnetic short circuit release. (for PFI control). 2 Nos. - 415V, 600A (36KA) adjustable type TPMCCB with instantaneous electro-magnetic short circuit release. 4 Nos. - 415V, 400A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 4 Nos. - 415V, 300/320A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 250A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 200A (36KA) adjustable type TPMCCB with thermal overload & instantaneous electro-magnetic short circuit release. 1 No. - 415V, 30/32A (16KA) TPMCCB with thermal overload & instantaneous electromagnetic short circuit release. [PWD 2.1.7.13]	each	2,430,960.64	2,430,960.64	2,430,960.64	2,430,960.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.07	POWER FACTOR IMPROVEMENT PANEL (PFI):Supply of following 415 volt, 3 phase, 50 Hz power factor improvement panel complete with TP bus bars and earth block, microprocessor controlled auto power factor correction relay with digital PF reading display, capacitor bank, contactor, fuse, ON indicators for every stage of capacitor bank (except directly connected one) etc. shall be manufactured & tested as per NEMA / VDE / IEC / JIS / BS standards along with relevant BDS standard assembled locally in 16 SWG sheet steel clad dust & vermin proof, free standing, floor mounting, epoxy resin powder coat painted cabinet as per relevant IEC standards and as per accepted / approved by the Engineer-in-charge. Assembled by the valid ISO-9001 certified company having test certificate (within five years) according to relevant IEC standards from BUET /RUET/ CUET / KUET /DUET/ MIST. [PWD 2.1.8]					
12.07.01	For 150 KVA transformer (PFI capacity - 90 KVAR):3 Nos. - 415V, 200A hard drawn electrolytic copper bus bar.1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in/separate discharge resistor. 1 No. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in/separate discharge resistor. 6 Nos. - 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in/separate discharge resistor. 3 Nos. - 415V, 10 A 50 Hz TP magnetic contactor with AC3 duty.6 Nos. - 415V, 20 A 50 Hz TP magnetic contactor with AC3 duty. 9 Nos. - 415V, 10 A HR.C fuse with base. 18 Nos. - 415V, 25 A HR.C fuse with base. [PWD 2.1.8.2]	each	200,834.97	200,834.97	200,834.97	200,834.97
12.07.02	For 200 KVA transformer (PFI capacity - 120 KVAR):3 Nos. - 415V, 250A hard drawn electrolytic copper bus bar.1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built-in discharge resistor. 3 Nos. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in discharge resistor. 4 Nos. - 415V, 20 KVAR 50 Hz TP power capacitor bank with built in discharge resistor. 2 Nos. - 415V, 10A 50 Hz TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 16A 50 Hz TP magnetic contactor with AC3 duty. 4 Nos. - 415V, 32A 50 Hz TP magnetic contactor with AC3 duty. 9 Nos. - 415V, 10A HR.C fuses with base. 9 Nos. 415V, 20A HR.C fuses with base.12 Nos. - 415V, 40A HR.C fuses with base. [PWD 2.1.8.3]	each	233,183.25	233,183.25	233,183.25	233,183.25
12.07.03	For 250 KVA transformer (PFI capacity - 150 KVAR):3 Nos. - 415V, 300A hard drawn electrolytic copper bus bar.1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 2 Nos. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 7 Nos. - 415V, 20 A 50 Hz auto TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty.24 Nos. - 415V, 25 A HR.C fuse with base.9 Nos. - 415V, 50 A HR.C fuse with base [PWD 2.1.8.4]	each	278,710.72	278,710.72	278,710.72	278,710.72

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.07.04	For 300 / 315 KVA transformer (PFI capacity - 187.5 KVAR):3 No's- 415V, 400A hard drawn electrolytic copper bus bar.1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in/ separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.4 Nos. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.3 Nos. - 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.4 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 6 Nos. - 415V, 20A 50 Hz TP magnetic contactor with AC3 duty. 7 Nos. - 415V, 40A 50 Hz TP magnetic contactor with AC3 duty. 22 Nos. - 415V, 25A HR.C fuse with base. 20 Nos. - 415V, 50A HR.C fuse with base. [PWD 2.1.8.5]	each	326,633.94	326,633.94	326,633.94	326,633.94
12.07.05	For 400 KVA transformer (PFI capacity - 240 KVAR):3 Nos. - 415V, 500A hard drawn electrolytic copper bus bar.1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor3 Nos. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.2 Nos. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 2 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 10 A 50 Hz auto TP magnetic contactor with AC3 duty. 4 Nos. - 415V, 16 A 50 Hz auto TP magnetic contactor with AC3 duty.5 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty. 2 Nos. - 415V, 80 A 50 Hz auto TP magnetic contactor with AC3 duty. 6 Nos. - 415V, 16 A HR.C fuse with base.15 Nos. - 415V, 20 A HR.C fuse with base.12 Nos. - 415V, 50 A HR.C fuse with base.6 Nos. - 415V, 100 A HR.C fuse with base. [PWD 2.1.8.6]	each	386,536.94	386,536.94	386,536.94	386,536.94
12.07.06	For 500 KVA transformer (PFI capacity - 300 KVAR):3 Nos. - 415V, 600A hard drawn electrolytic copper bus bar. . 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 No. - 415V, 2.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.3 Nos. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 16 A 50 Hz TP magnetic contactor with AC3 duty. 6 Nos. - 415V, 20 A 50 Hz TP magnetic contactor with AC3 duty. 4 Nos. - 415V, 40 A 50 Hz TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 80 A 50 Hz TP magnetic contactor with AC3 duty. 9 Nos. - 415V, 16 A HR.C fuse with base. 12 Nos. - 415V, 25 A HR.C fuse with base. 15 Nos. - 415V, 50 A HR.C fuse with base. 9 Nos. - 415V, 100 Amp HR.C fuse with base. [PWD 2.1.8.7]	each	447,702.06	447,702.06	447,702.06	447,702.06

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.07.07	For 600 / 630 KVA transformer (PFI capacity - 375 KVAR):4 Nos. - 415V, 750A hard drawn electrolytic copper bus bar.1 No. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 2 Nos. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 10 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 2 Nos. - 415V, 12.5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.2 No. - 415V, 16 A 50 Hz auto TP magnetic contactor with AC3 duty.3 No. - 415V, 20 A 50 Hz auto TP magnetic contactor with AC3 duty. 3 No. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty.5 Nos. - 415V, 80 A 50 Hz auto TP magnetic contactor with AC3 duty.18 Nos. - 415V, 25 A HR.C fuse with base.9 Nos. - 415V, 50 A HR.C fuse with base.15 Nos. - 415V, 100 A HR.C fuse with base. [PWD 2.1.8.8]	each	536,549.33	536,549.33	536,549.33	536,549.33
12.07.08	For 800 KVA transformer (PFI capacity - 480 KVAR):3 Nos. - 415V, 900A hard drawn electrolytic copper bus bar.1 No. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 4 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 Nos. - 415V, 5 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 1 No. - 415V, 100 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty. 1 Nos. - 415V, 10 A 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos. - 415V, 80 A 50 Hz auto TP magnetic contactor with AC3 duty. 1 No. - 415V, 160 A 50 Hz auto TP magnetic contactor with AC3 duty. 15 Nos. - 415V, 50 A HR.C fuse with base.3 Nos. - 415V, 10 A HR.C fuse with base.15 Nos. - 415V, 100 A HR.C fuse with base.3 Nos. - 415V, 200 A HR.C fuse with base. [PWD 2.1.8.9]	each	652,762.22	652,762.22	652,762.22	652,762.22
12.07.09	For 1000 KVA transformer (PFI capacity - 600 KVAR):3 Nos. - 415V, 1200A hard drawn electrolytic copper bus bar.1 No. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 100 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor.3 Nos. - 415V, 40 A 50 Hz TP magnetic contactor with AC3 duty. 4 Nos. - 415V, 80 A 50 Hz TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 160 A 50 Hz TP magnetic contactor with AC3 duty. 12 Nos. - 415V, 50 A HR.C fuse with base. 12 Nos. - 415V, 100 A HR.C fuse with base. 9 Nos. - 415V, 200 A HR.C fuse with base. [PWD 2.1.8.10]	each	758,004.61	758,004.61	758,004.61	758,004.61
12.07.10	For 1250 KVA transformer (PFI capacity - 750 KVAR):3 Nos. - 415V, 1500A hard drawn electrolytic copper bus bar.1 No. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 5 Nos. - 415V, 100 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 80 A 50 Hz auto TP magnetic contactor with AC3 duty. 5 Nos. - 415V, 160 A 50 Hz auto TP magnetic contactor with AC3 duty.12 Nos. - 415V, 50 A HR.C fuse with base.9 Nos. - 415V, 100 A HR.C fuse with base.15 Nos. - 415V, 200 A HR.C fuse with base. [PWD 2.1.8.11]	each	972,081.47	972,081.47	972,081.47	972,081.47

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.07.11	For 1500/1600 KVA transformer (PFI capacity - 900/960 KVAR):3 Nos. - 415V, 1800A hard drawn electrolytic copper bus bar.1 No. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3 Nos.-415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 4 Nos. - 415V, 50 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 6 Nos. - 415V, 100 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty. 4 Nos. - 415V, 80 A 50 Hz auto TP magnetic contactor with AC3 duty.6 Nos. - 415V, 160 A 50 Hz auto TP magnetic contactor with AC3 duty.12 Nos. - 415V, 50 A HR.C fuse with base.12 Nos. - 415V, 100 A HR.C fuse with base.18 Nos. - 415V, 200 A HR.C fuse with base. [PWD 2.1.8.12]	each	1,033,246.58	1,033,246.58	1,033,246.58	1,033,246.58
12.07.12	For 2000 KVA transformer (PFI capacity - 1200 KVAR):3 Nos. - 415V, 2000A hard drawn electrolytic copper bus bar.1 No. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 2 Nos. - 415V, 25 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 3 Nos. - 415V, 75 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 6 Nos. - 415V, 150 KVAR, 50 Hz TP power capacitor bank with built in / separate discharge resistor. 2 Nos. - 415V, 40 A 50 Hz auto TP magnetic contactor with AC3 duty. 3 Nos. - 415V, 125 A 50 Hz auto TP magnetic contactor with AC3 duty. 6 Nos. - 415V, 250 A 50 Hz auto TP magnetic contactor with AC3 duty. 9 Nos. - 415V, 50 A HR.C fuse with base.9 Nos. - 415V, 150 A HR.C fuse with base.18 Nos. - 415V, 300 A HR.C fuse with base. [PWD 2.1.8.13]	each	1,259,557.08	1,259,557.08	1,259,557.08	1,259,557.08
12.08	LIGHTNING ARRESTER & DROPOUT FUSE [PWD 2.1.10]					
12.08.01	Supply of outdoor type11 KV, 50 Hz, 100A, (10 KA), 75 KV BIL lightning arrester complete with mounting accessories etc. Made in BANGLADESH / BRAZIL or EU countries. (3 Nos. in a set). [PWD 2.1.10.1]	set	19,547.31	19,547.31	19,547.31	19,547.31
12.08.02	Supply of outdoor type 11KV, 50 Hz, 5KA (20 KA) dropout fuse complete with mounting accessories etc. Made in BANGLADESH / BRAZIL or EU countries. (3 Nos. in a set). [PWD 2.1.10.2]	set	25,852.72	25,852.72	25,852.72	25,852.72
12.08.03	IRON CHANNELProviding & fixing U-channel iron cross-arm of size 38 mm x 76 mm x 38 mm x 6.35mm. (1.5" x 3" x 1.5" x 0.25") on single pole / H-pole with the help of necessary clamps, nuts, bolts etc. including making required no. of holes on the cross-arm for fixing of drop out fuse, lightning arrester including two coats of superior quality aluminum painting over required prime coat of anti-corrosive red-oxide painting complete as required & as per instruction of the Engineer-in-charge. [PWD 2.1.11]	m	1,134.67	1,134.67	1,134.67	1,134.67
12.09	INSTALLATION Installations, testing and commissioning of following 11 KV, 50 Hz. 3-phase, indoor type HT switchgear and HT Meter on prepared foundation with the help of necessary tools, plants, skilled labour & technician as per direction of the Engineer-in-charge. [PWD 2.1.12]					
12.09.01	Load Break Switch [PWD 2.1.12.1]	job	8,827.58	8,669.31	8,069.08	8,069.08
12.09.02	Withdraw able Type Vacuum Circuit Breaker [PWD 2.1.12.2]	job	15,134.03	14,861.67	13,831.83	13,831.83
12.10	INSTALLATION OF TRANSFORMER Installation, testing and commissioning of following 11 KV/ 0.415KV transformer on prepared platform on pole / CC foundation with the help of necessary tools & plants, skilled labour & technician as per direction of the Engineer-in-charge. [PWD 2.1.13]					
12.10.01	100-150 KVA 3 phase transformer on H. pole. [PWD 2.1.13.2.2]	job	8,827.58	8,669.31	8,069.08	8,069.08
12.10.02	200-250 KVA 3 phase transformer on H. pole. [PWD 2.1.13.2.3]	job	12,610.83	12,384.72	11,526.53	11,526.53

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.10.03	3 phase transformer on CC pad with proper fencing.(min 6 feet heightmade of MS angle/flat bar with duly painted) [PWD 2.1.13.3]					
12.10.03.01	100- 150 KVA 3 phase transformer on CC pad with proper fencing.. [PWD 2.1.13.3.2]	job	30,494.17	29,945.33	27,872.31	27,872.31
12.10.03.02	200-315 KVA 3 phase transformer on CC pad with proper fencing. [PWD 2.1.13.3.3]	job	36,062.67	35,414.14	32,961.86	32,961.86
12.10.03.03	400-630KV43 phase transformer on CC pad with proper fencing. [PWD 2.1.13.3.4]	job	42,784.33	42,014.53	39,104.89	39,104.89
12.10.03.04	800- 1000KVA 3 phase transformer on CC pad with proper fencing. [PWD 2.1.13.3.5]	job	52,565.69	51,619.11	48,045.53	48,045.53
12.10.03.05	1250- 1600 KVA3 phase transformer on CC pad with proper fencing. [PWD 2.1.13.3.6]	job	69,751.17	68,496.25	63,753.06	63,753.06
12.10.03.06	2000 KVA 3 phase transformer on CC pad with proper fencing. [PWD 2.1.13.3.7]	job	72,452.17	71,147.92	66,220.75	66,220.75
12.11	INSTALLATION TESTING,COMMISSIONING OF LT SWITCHGEAR/PFI PLANT Installation, testing and commissioning of 415V, 3-phase, 50 Hz indoor type LT switchgear/ PFI panel suitable for following capacity transformer on prepared CC foundation with the help of necessary tools & plants, skilled labour & technician as per direction of the Engineer-in charge [PWD 2.1.14]					
12.11.01	For 100- 150 KVA transformer [PWD 2.1.14.1]	job	5,044.33	4,953.89	4,610.61	4,610.61
12.11.02	For 200-400KVA transformer [PWD 2.1.14.2]	job	6,936.47	6,811.08	6,339.33	6,339.33
12.11.03	For 500-600 KVA transformer [PWD 2.1.14.3]	job	8,197.56	8,049.56	7,492.50	7,492.50
12.11.04	For 800- 1000 KVA transformer [PWD 2.1.14.4]	job	10,088.67	9,907.78	9,221.22	9,221.22
12.11.05	For 1250- 1500 KVA transformer [PWD 2.1.14.5]	job	13,872.94	13,623.19	12,679.69	12,679.69
12.11.06	For 2000 KVA transformer [PWD 2.1.14.6]	job	15,764.06	15,480.39	14,408.42	14,408.42
12.12	INSTALLATION OF DROP OUT FUSE/ LIGHTNINGARRESTERInstallation of HT drop out fuse/ lightning arrester on prepared U channel cross-arm on single H-pole with necessary fixing materials complete as per instruction of the Engineer-in-charge. [PWD 2.1.15]					
12.12.01	Drop out fuse. [PWD 2.1.15.1]	job	1,261.08	1,238.47	1,153.17	1,153.17
12.12.02	Lightning arrester. [PWD 2.1.15.2]	job	1,261.08	1,238.47	1,153.17	1,153.17
12.13	SPARES FOR SUBSTATION EQUIPMENTSupplying of the following components / equipment's suitable for use at 11/0.415/0.240 KV substation & power supply system, manufactured and tested in accordance with NEMA IEC/ VDE BS/JIS standards along with BDS standard accepted / approved by the Engineer-in-charge. [PWD 2.1.18]					
12.13.01	11KV, 3 -phase,50Hz HT LBS unit.630 A,20KA. [PWD 2.1.18.1]	each	331,678.28	331,678.28	331,678.28	331,678.28
12.13.02	11KV, 50H2, 50VA, 11 / 0.11 ratio cast resin insulated potentialtransformer (PT) class 0.5. [PWD 2.1.18.3]	each	38,464.58	38,464.58	38,464.58	38,464.58
12.13.03	11KV, 50H2, 10-15VA adequate ratio, double core cast resin insulated current transformer (CT). [PWD 2.1.18.4]	each	38,464.58	38,464.58	38,464.58	38,464.58
12.13.04	11KV, 50H2, 15VA, adequate ratio, single core cast resin insulatedcurrent transformer (CT). [PWD 2.1.18.5]	each	32,159.17	32,159.17	32,159.17	32,159.17
12.13.05	Microprocessor controlled three-phase 50Hz IDMT relay for 11KVswitchgear. [PWD 2.1.18.6]	each	88,909.97	88,909.97	88,909.97	88,909.97
12.13.06	11KV, porcelain bushing (for transformer capacity up to 2MVA). [PWD 2.1.18.7]	each	3,531.44	3,531.44	3,531.44	3,531.44

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.13.07	500V, porcelain bushing (for transformer capacity up to 2 MVA). [PWD 2.1.18.8]	each	3,531.44	3,531.44	3,531.44	3,531.44
12.13.08	Thermostat controlled panel heater for 11 KV, 50Hz switchgear. [PWD 2.1.18.9]	each	10,215.08	10,215.08	10,215.08	10,215.08
12.13.09	Buchholz relay for 11 / 0.415 & 0.24KV 3 - phase, 50 Hz transformer [PWD 2.1.18.10]	each	63,182.64	63,182.64	63,182.64	63,182.64
12.13.10	CAPACITOR BANK415V, 50H2, 3 phase, capacitor bank of following capaciry :- [PWD 2.1.19]					
12.13.10.01	5KVAR [PWD 2.1.19.2]	each	5,170.75	5,170.75	5,170.75	5,170.75
12.13.10.02	7.5KVAR [PWD 2.1.19.3]	each	7,692.92	7,692.92	7,692.92	7,692.92
12.13.10.03	10KVAR [PWD 2.1.19.4]	each	9,855.36	9,855.36	9,855.36	9,855.36
12.13.10.04	12.5KVAR [PWD 2.1.19.5]	each	10,215.08	10,215.08	10,215.08	10,215.08
12.13.10.05	20KVAR [PWD 2.1.19.6]	each	18,185.50	18,185.50	18,185.50	18,185.50
12.13.10.06	25KVAR [PWD 2.1.19.7]	each	19,042.67	19,042.67	19,042.67	19,042.67
12.13.11	POWER FACTOR CORRECTION RELAY [PWD 2.1.20]					
12.13.11.01	PFC relay 6 stages [PWD 2.1.20.1]	each	20,241.06	20,241.06	20,241.06	20,241.06
12.13.11.02	PFC relay 9 stages [PWD 2.1.20.2]	each	25,285.39	25,285.39	25,285.39	25,285.39
12.13.12	Oil level indicator for 11/0.415 & .024 KV transformer. [PWD 2.1.21]	each	6,369.14	6,369.14	6,369.14	6,369.14
12.13.13	Silica Gel Breather conlainer for transformer. [PWD 2.1.22]	each	3,845.94	3,845.94	3,845.94	3,845.94
12.13.14	Silica Gel for Transformer breather. [PWD 2.1.23]	each	1,185.03	1,185.03	1,185.03	1,185.03
12.13.15	TRANSFORMER OIL [PWD 2.1.24]	each	334.03	334.03	334.03	334.03
12.13.16	CAPACITY CONTOL CIRCUIT BREAKER FEEDER UNITSupplying of 415V, 3 phase, 50Hz following capacity control circuit breaker feeder unit as per following specification with thermal over current & instantaneous electromagnetic short-circuit release manufactured and tested as per NEMA / IEC / VDE / BS / JIS along with relevant BDS standards (adjustable type above 100A rating) for sub-station L.T panel. Rated operating voltage : 220-690 V.Rated insulation voltage : 690 volt.Rated impulse withstand voltage : 6KV.Utilization category : A or Baccepted / approved by the Engineer-in-charge. [PWD 2.12.27]					
12.13.16.01	30A / 32A (16KA) TPMCCB ..... [PWD 2.1.27.1]	each	8,626.14	8,626.14	8,626.14	8,626.14
12.13.16.02	40A(16KA) TPMCCB ..... [PWD 2.1.27.2]	each	8,626.14	8,626.14	8,626.14	8,626.14
12.13.16.03	50A (16KA) TPMCCB ..... [PWD 2.1.27.3]	each	8,626.14	8,626.14	8,626.14	8,626.14
12.13.16.04	60A / 63A (16KA) TPMCCB ..... [PWD 2.1.27.4]	each	8,626.14	8,626.14	8,626.14	8,626.14
12.13.16.05	80A (16KA) TPMCCB ..... [PWD 2.1.27.5]	each	8,714.53	8,714.53	8,714.53	8,714.53
12.13.16.06	100A (16KA) TPMCCB ..... [PWD 2.1.27.6]	each	8,714.53	8,714.53	8,714.53	8,714.53
12.13.16.07	150/160A (25KA) TPMCCB ..... [PWD 2.1.27.8]	each	13,304.58	13,304.58	13,304.58	13,304.58
12.13.16.08	200A (36KA) TPMCCB ..... [PWD 2.1.27.9]	each	21,691.25	21,691.25	21,691.25	21,691.25
12.13.16.09	250A (36KA) TPMCCB ..... [PWD 2.1.27.10]	each	25,311.08	25,311.08	25,311.08	25,311.08

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.13.16.10	300A / 320A (36KA) TPMCCB ..... [PWD 2.1.27.11]	each	48,616.97	48,616.97	48,616.97	48,616.97
12.13.16.11	400A (36KA) TPMCCB ..... [PWD 2.1.27.12]	each	48,616.97	48,616.97	48,616.97	48,616.97
12.13.16.12	500A (36KA) TPMCCB ..... [PWD 2.1.27.13]	each	53,030.25	53,030.25	53,030.25	53,030.25
12.13.16.13	600A / 630A (36KA) TPMCCB ..... [PWD 2.1.27.14]	each	55,944.00	55,944.00	55,944.00	55,944.00
12.13.16.14	800A (50KA) TPMCCB ..... [PWD 2.1.27.15]	each	76,866.47	76,866.47	76,866.47	76,866.47
12.13.16.15	1000A (50KA)TPMCCB ..... [PWD 2.1.27.16]	each	99,818.81	99,818.81	99,818.81	99,818.81
12.13.16.16	1200A / 1250A (65KA) ACB ..... [PWD 2.1.27.18]	each	362,071.72	362,071.72	362,071.72	362,071.72
12.13.16.17	1600A (65KA) ACB ..... [PWD 2.1.27.19]	each	410,624.97	410,624.97	410,624.97	410,624.97
12.13.16.18	2000A (65KA) ACB ..... [PWD 2.1.27.20]	each	450,350.64	450,350.64	450,350.64	450,350.64
12.13.16.19	2500A (65KA) ACB ..... [PWD 2.1.27.21]	each	547,458.17	547,458.17	547,458.17	547,458.17
12.13.16.20	3000/3200A (65KA) ACB..... [PWD 2.1.27.22]	each	679,877.06	679,877.06	679,877.06	679,877.06
12.14	AVR Supply, installation, testing & commissioning of following 415V, 3-phase, 50Hz electronically controlled, automatic voltage stabilizer/regulator locally assembled in metallic painted cabinet suitable for input voltage range 300 - 460V, output stepless continuous voltage 400V ± 3%, correction speed 20V/sec. (minimum) complete with phase failure and spike & surge-fluctuation voltage protection, auto shut off at high & low voltage with auto reset system, overload & instantaneous short circuit protection by MCCB & relay, transient suppression circuit, ON-OFF-TRIP indicators, voltmeter & ammeter, bypass circuit etc. Assembled by AEG/ MICRO/ NAVANA/ RAHIMAFROOZ / GREEN POWER/ GIGA POWER/ JUST POWER or equivalent accepted/approved by the Engineer. [PWD 8.6]					
12.14.01	15 KVA AVR [PWD 8.6.2]	each	95,689.19	95,689.19	95,689.19	95,689.19
12.14.02	20 KVA AVR [PWD 8.6.3]	each	111,522.11	111,522.11	111,522.11	111,522.11
12.14.03	30KVA AVR [PWD 8.6.4]	each	129,932.69	129,932.69	129,932.69	129,932.69
12.14.04	40KVA AVR [PWD 8.6.5]	each	182,834.47	182,834.47	182,834.47	182,834.47
12.14.05	50KVA AVR [PWD 8.6.6]	each	236,867.83	236,867.83	236,867.83	236,867.83
12.14.06	60KVA AVR [PWD 8.6.7]	each	244,659.42	244,659.42	244,659.42	244,659.42
12.14.07	75KVA AVR [PWD 8.6.8]	each	317,164.00	317,164.00	317,164.00	317,164.00
12.14.08	100KVA AVR [PWD 8.6.9]	each	471,008.97	471,008.97	471,008.97	471,008.97
12.14.09	150KVA AVR [PWD 8.6.10]	each	566,189.42	566,189.42	566,189.42	566,189.42
12.14.10	200KVA AVR [PWD 8.6.11]	each	687,187.64	687,187.64	687,187.64	687,187.64

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.15	THREE PHASE GENERATOR WITH ATS AND SOUND ATTENUATED ACOUSTICALLY TREATED CANOPY (Maximum sound level : 75 dBA at 7m distance in the generator room). Supply of 400V-415V, 3-phase, 4-wire, 50 Hz. air / water cooled, floor mounted, indoor type following continuous capacity (prime power) electric generating set with ATS and sound attenuated acoustically treated canopy (Maximum sound level : 75 dBA at 7m distance in the generator room) suitable for tropicalized country complete with four stroke,1500 rpm, diesel engine with all standard accessories viz. 12/24 volt DC battery & auto battery charger with ammeter, radiator assembly, oil & fuel pump, auto speed governor, air cleaner, fuel & oil tank, level & oil pressure gauge, RPM & hour meter, start & stop switch, exhaust silencer (to keep standard emission level), mounting spring and vibration isolator (to keep very minimum vibration in the room), mounting steel base frame etc. including safety & protection device viz. auto shut off with indicators for overload, over & under voltage, high temperature, low oil pressure, over speed, low fuel level etc. coupled with brush less, self excited alternator having control panel with auto voltage regulator, voltmeter & ammeter with selector switch, frequency meter,compatible with standard building management system. TPMCCB of required rating for overload & instantaneous short circuit release, auto start and auto charge over to load within 10 sec during normal power failure and stop & auto change over to normal supply within 5 minutes after resolution of normal power supply, indicator for 3 phase indicator for ON-OFF-TRIP etc. including maintenance tools, 3 sets of detailed technical catalogues & maintenance manual. Manufactured, assembled and tested in accordance with NEMA / IEC / VDE / JIS standards along with relevant BDS IEC standard (subject to satisfy standard test and approved by PWD) [PWD 2.2.3]					
12.15.01	(USA / UK / JAPAN / EU COUNTRIES)The generating set shall be assembled & tested in USA / UK / JAPAN / EU countries. The major components like engine shall be of Perkins / Deutz / Cummins / Mitsubishi / Volvo / Kohler / Yanmar brand and alternator shall be of Stamford / Mecc Alte Spa / Leroy Somer / Kohler brand. The engine, alternator, ATS, canopy shall also be manufactured and tested as per relevant standards in USA / UK / JAPAN / EU countries & accepted / approved by the Engineer-in-charge. [PWD 2.2.3.1]					
12.15.01.01	30 KVA [PWD 2.2.3.1.3]	each	1,694,294.75	1,694,294.75	1,694,294.75	1,694,294.75
12.15.01.02	40 KVA [PWD 2.2.3.1.4]	each	1,818,528.42	1,818,528.42	1,818,528.42	1,818,528.42
12.15.01.03	60 KVA [PWD 2.2.3.1.5]	each	2,025,165.19	2,025,165.19	2,025,165.19	2,025,165.19
12.15.01.04	80 KVA [PWD 2.2.3.1.6]	each	2,278,678.92	2,278,678.92	2,278,678.92	2,278,678.92
12.15.01.05	100 KVA [PWD 2.2.3.1.7]	each	2,487,206.81	2,487,206.81	2,487,206.81	2,487,206.81
12.15.01.06	150 KVA [PWD 2.2.3.1.8]	each	3,437,357.56	3,437,357.56	3,437,357.56	3,437,357.56
12.15.01.07	200 KVA [PWD 2.2.3.1.9]	each	4,222,703.11	4,222,703.11	4,222,703.11	4,222,703.11
12.15.01.08	250KVA [PWD 2.2.3.1.10]	each	4,964,324.94	4,964,324.94	4,964,324.94	4,964,324.94
12.15.01.09	300 KVA [PWD 2.2.3.1.11]	each	5,955,676.22	5,955,676.22	5,955,676.22	5,955,676.22
12.15.01.10	400 KVA [PWD 2.2.3.1.12]	each	7,363,491.28	7,363,491.28	7,363,491.28	7,363,491.28
12.15.01.11	500 KVA [PWD 2.2.3.1.13]	each	8,267,989.17	8,267,989.17	8,267,989.17	8,267,989.17
12.16	MOBILE TYPE GENERATOR					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.16.01	The generating set shall be assembled & tested in USA / UK / JAPAN / EU countries. The major components like engine shall be of Perkins / Deutz / Cummins / Mitsubishi / Volvo / Kohler / Yanmar brand and alternator shall be of Stamford / Mecc Alte Spa / Leroy Somer / Kohler brand. The engine, alternator, ATS, canopy shall also be manufactured and tested as per relevant standards in USA / UK / JAPAN / EU countries & accepted / approved by the Engineer-in-charge. With sound attenuated acoustically treated canopy, standard chassis including necessary wheels, brakes etc. as required as outdoor-type mobile unit. (Maximum sound level : 75 dBA at 7m distance (outdoor)). [PWD 2.2.4.1]	each	1,751,083.58	1,751,083.58	1,751,083.58	1,751,083.58
12.17	INSTALLATION Installation, testing & commissioning of following electric generator on prepared CC pad with the help of necessary T & P, skilled labour, technician, Engineer-in-charge including 2 hrs. / 5 day trial run operation by skilled operator with supply of necessary fuel & lubricant as per manufacturers instruction manual and in accordance with relevant IEC / NEMA / VDE / JIS standards so that vibration transfer rate to foundation shall be almost zero. [PWD 2.2.5]					
12.17.01	30KVA – 80 KVA manual/auto/auto with soundproof acoustically treated canopy generating set. [PWD 2.2.5.2]	each	32,183.83	31,605.19	29,416.03	29,416.03
12.17.02	100KVA – 150 KVA manual/auto/auto with soundproof acoustically treated canopy/mobile generating set with soundproof acoustically treated canopy. [PWD 2.2.5.3]	each	43,836.78	43,047.44	40,067.92	40,067.92
12.17.03	200 KVA – 300 KVA manual/auto/auto with sound-proof acoustically treated canopy generating set. [PWD 2.2.5.4]	each	47,583.03	46,725.86	43,490.42	43,490.42
12.17.04	400 KVA – 500 KVA manual/auto/auto with soundproof acoustically treated canopy generating set. [PWD 2.2.5.5]	each	100,714.00	98,902.03	92,052.92	92,052.92
12.18	Supply of following lift complete with car, BMS compatible control panel, traction machine(permanent magnet synchronous motor type), gearless, oil free, steel suspension ropes, safety devices, guide rails, push buttons, with other necessary accessories etc. complete including counter weight as required, suitable for installation & use in tropical country like Bangladesh (considering ambient temperature from 00C to 460C and relative humidity from 40% to 98%) & as per detailed specifications and standards as mentioned below herewith: Brand & country of origin (Type A) : KONE (Finland), MITSUBISHI (Japan), OTIS (USA / Japan / France), Schindler (Switzerland), TKE (Germany), FUJITEC (Japan), HITACHI (Japan) or equivalent product; provided the lift manufacturing company shall have multi-continental manufacturing plant and shall have lift manufacturing capability for speed 10 m / sec (minimum), regular production with Polyurethane coated steel belt / ultra rope & Regenerative drive technology. Besides, it shall have lift manufacturing experience for a period of not less than 65 years in it's particular manufacturing plant where proposed brand of lift will be manufactured .The proposed brand of lift shall be manufactured and tested in FINLAND / FRANCE / GERMANY / JAPAN / SWITZERLAND / UK / USA, complying all other detailed specifications and standards stated in the item. The proposed lift manufacturing company shall have it's own testing tower at factory premises and R&D(Research and development) wing/centre . Besides, it manufactures major components like PMS (Permanent Magnet synchronous) type gearless motor, Polyurethane coated steel belt & Regenerative drive , controller , inverter , motherboard , Door Inverter & all PCBs (Printed Circuit Boards) in its own factory. SPEED: 1.0 - 1.5 M/S [PWD 8.1]					
12.18.01	Passenger Lift [PWD 8.1.1.1]					
12.18.01.01	630kg [PWD 8.1.1.1.1]	each	5,021,219.64	5,021,219.64	5,021,219.64	5,021,219.64
12.18.01.02	800kg [PWD 8.1.1.1.8]	each	6,097,427.33	6,097,427.33	6,097,427.33	6,097,427.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.18.01.03	1000kg [PWD 8.1.1.1.15]	each	7,048,222.50	7,048,222.50	7,048,222.50	7,048,222.50
12.18.01.04	1250kg [PWD 8.1.1.1.22]	each	8,055,110.69	8,055,110.69	8,055,110.69	8,055,110.69
12.18.01.05	1600kg [PWD 8.1.3.1.29]	each	9,061,999.92	9,061,999.92	9,061,999.92	9,061,999.92
12.18.01.06	Next Per Stop Passenger Lift [PWD 8.1.1.1.1]	each	193,424.69	193,424.69	193,424.69	193,424.69
12.18.02	Bed / Stretcher Lift [PWD 8.1.1.2]					
12.18.02.01	1250kg [PWD 8.1.1.2.8]	each	8,055,110.69	8,055,110.69	8,055,110.69	8,055,110.69
12.18.02.02	1600kg [PWD 8.1.1.2.15]	each	9,061,999.92	9,061,999.92	9,061,999.92	9,061,999.92
12.18.02.03	Next Per Stop Bed / Str. Lift [PWD 8.1.1.2.8]	each	197,558.42	197,558.42	197,558.42	197,558.42
12.18.03	Cargo//Goods/Service Lift:The Cargo/Goods/Service Lift shall have the following features -i)Designed and manufactured in accordance with requirements of Lifts Directive 95/16/CE, throughout the accomplishment of Harmonized Norm EN 81-2 and the Directive of Electromagnetic Compatibility 89/336/CEE. ii) Test Certificate CE Type ATI/LD-VB/M012/99 (institution registered 0053), as MODEL LIFT [PWD 8.1.1.5]					
12.18.03.01	2000kg [PWD 8.1.3.5.2]	each	11,711,074.53	11,711,074.53	11,711,074.53	11,711,074.53
12.18.03.02	2500 kg [PWD 8.1.3.5.3]	each	13,779,498.89	13,779,498.89	13,779,498.89	13,779,498.89
12.18.03.03	Next Per Stop Cargo / Good / Serv. Lift [PWD 8.1.1.5.2]	each	282,766.33	282,766.33	282,766.33	282,766.33

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.19	LIFT INSTALLATION Installation, testing and commissioning of the above lift including supplying of necessary fixing materials, Architrave & transom : Stainless Sheet steel mirror/hairline finish architrave covering the door entrances sides and transom covering the top about 400mm for main entry & Narrow architrave Mirror/Hairline finish for typical floor. Stainless steel (Steel grade : SUS 304/441) mirror/Hairline finish Transom Panel shall be provided at main entry. Architrave for Ground Floor : Made of hairline or mirror polished stainless steel (Steel grade : SUS 304/441). Architrave for typical floor : Narrow jamb made of hairline or mirror polished stainless steel of minimum 50mm x 50mm size. Transom for Ground Floor : Made of hairline or mirror polished stainless steel as per width of door entrance top, shaft lighting with wirings, additional works on base foundation (if necessary) for machineries and painting of all parts and initial lubrication shall be carried out as per BSEN-81 /EN-81:21(Lift Directive 95/16/EC)/DIN/ VDE/ ANSI /ASME A17.1/ JIS . For ride quality measurement, ISO 18738/5 is to be followed (noise in car at it's highest speed not more than 60 dBA, maximum horizontal vibration at car platform at highest speed shall be 20dBA, maximum vertical vibration at car platform at highest speed shall be 30dBA). The supplier / Installer shall provide quality check certification from mother company/Principal and shall carry out 16 hours per day trial run operation for 30 (thirty) days before handing over the lift to the competent authority. All electrical and civil works mending good the damages in connection with installation of the lift shall be carried out in accordance with the provision of the Bangladesh National Building code, latest Bangladesh Electricity Rules, Regulations & PWD specification. All non-current carrying metallic enclosure of electrical materials/equipment viz. electric motor frames, control panel, other metallic cases, door, call and control button, car switch, limit switch, junction boxes & similar electric fittings shall be properly connected to the earthing system. All the works in this regard shall conform to general standards, codes and specifications of PWD. The bidder shall ensure to use steel scaffolding items (preferably) avoiding bamboo, barricade, lifeloine, safety shoes, Helmets, Gloves, Goggles and all the safety measure as per international safety codes for the workers, supervisors and others during the installation period. (For Passenger/Bed/Panorama/ Fire Fighters' Lift) [PWD 8.3]					
12.19.01	For 630 kg. - 1000 kg. capacity (Upto 3-stop) [PWD 8.3.1]	job	97,345.97	95,593.61	88,973.69	88,973.69
12.19.02	For 1250 kg. - 1500/1600 kg. capacity (Upto 3-stop) [PWD 8.3.2]	job	113,904.50	111,855.11	104,108.75	104,108.75
12.19.03	Next per stop (up to 10 stops)	job	19,531.89	19,180.39	17,852.50	17,852.50
12.20	Microphone [PWD 16.16]					
12.20.01	Supply, Installation, Testing & Commissioning of vocal/ dynamic microphone of following technical specification or equivalent- Characteristics: Dynamic, Polar pattern: supercardioid/ cardioid,Frequency Response 80Hz~13 kHz, Output impedance 500-600ohm.CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.16.1]	each	17,214.25	17,212.19	17,202.94	17,202.94
12.20.02	Supply, Installation, Testing & Commissioning of large diaphragm cardioid condenser microphone of following technical specification or equivalent- Polar pattern : cardioid Frequency Response 20Hz~20 kHz,Bass Cut Filter: 80-300 Hz, 12 dB/octave SNR; 75-85dB CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.16.3]	each	37,266.19	37,264.14	37,254.89	37,254.89

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.20.03	Supply, Installation, Testing & Commissioning of Wireless Microphones (Tie Clip Type) of following technical specification or equivalent- suitable for 1 transmitter, Preset with 16 selectable UHF channel, RF frequency range :700MHz-750MHz or any suitable carrier frequency range ,Channel 16, Frequency Response: 50Hz-18KHz, operating range 100m. CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.16.5]	each	60,471.36	60,469.31	60,460.06	60,460.06
12.20.04	Supply, Installation, Testing & Commissioning of Wireless Microphones (Hand Held Type) of following technical specification or equivalent- suitable for 1 transmitter, Preset with 16 selectable UHF channel, RF frequency range :600 MHz-750MHz or any suitable carrier frequency range ,Channel 16, Frequency Response: 50Hz-18KHz, operating range 100m. CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.16.4]	each	69,551.78	69,548.69	69,540.47	69,540.47
12.21	Mixing Console					
12.21.01	Supply, Installation, Testing & Commissioning of 16 channel mixing console of following technical specification or equivalent-Input Channels: 16 channels , stereo channels:2 Output Channels: minimum Stereo Out: 2, Monitor Out: 1, Aux Send: 4, Group Out: 2 Bus: 9 (minimum)Frequency Response : 22Hz - 20KHzPhantom Power Voltage +48 VHigh Pass Filter :80-100Hz, 12-18dB per octaveLevel Meter : 12 -segment LED meterPower Requirements AC 100-240 V, 50 HzCE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.14.1]	each	204,430.14	204,383.89	204,213.28	204,213.28
12.21.02	Supply, Installation, Testing & Commissioning of 24 channel mixing console of following technical specification or equivalent-Input Channels: 24 channels , stereo channels:4 Output Channels: minimum Stereo Out: 2, Monitor Out: 1, Aux Send: 4, Group Out: 4 Bus: 9 (minimum)Frequency Response : 22Hz - 20KHzPhantom Power Voltage +48 VHigh Pass Filter :80-100Hz, 12-18dB per octaveLevel Meter : 12 -segment LED meterPower Requirements AC 100-240 V, 50 HzCE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.14.2]	each	282,620.39	282,574.14	282,403.53	282,403.53
12.22	Mixer Amplifier					
12.22.01	Supply, Installation, Testing & Commissioning of mixers-amplifier of following technical specification or equivalent-input : minimum 8power output:2 x 40W RMSinput sensitivity: 4ohm/8ohmpower supply:100-240 Vac , 50 HzCE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.15.1]	each	155,749.44	155,704.22	155,532.58	155,532.58

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.23	Ceiling SpeakerSupply, Installation, Testing & Commissioning of Professional heavy duty, ceiling mounted speaker ideal for airports, lounges, convention centers, corporate boardrooms, hotels / hospitality, houses of worship,museums offices, of patois, spaces schools, theaters and theme parks, superior sound quantity, wide dispersion and smooth off-axis coverage of following technical specification or equivalent- Frequency range (nominal): 85Hz to 18 KHz. (±3db). Nominal impedance: 8Ω Nominal sensitivity(1w, 2m) : 90dB SPLComponents : LF & HF driver.CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge.					
12.23.01	6W-12W [PWD 16.9.2]	each	11,035.25	11,030.11	11,013.67	11,013.67
12.24	Line Array Speaker System					
12.24.01	Supply, Installation, Testing & Commissioning of dual driver Two-Way Line Array type Main Auditorium Speaker including accessories of following technical specification or equivalent- Frequency Response: 87Hz-15.3 kHz Long term / Continuous power- LF: 600W-800W, HF: 50W-150W Program- LF: 1200W-1600W, HF: 100W-260W Short term/ Peak power- LF: 2400W-3200W, HF: 200W-500W Nominal Impedance: 8-16 ohm, Calculated Maximum SPL @ 1 m- LF: 128-135dB , HF: 132-139dB. Coverage Pattern: At least 100° H x 10° V CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge. [PWD 16.1.2]	each	813,052.39	813,029.78	812,944.47	812,944.47
12.25	Stage Monitor Speaker					
12.25.01	Supply, Installation, Testing & Commissioning of 2 way Stage Monitor Speaker including accessories of following technical specification or equivalent-Frequency Response: 70Hz-16KHzSystem power- Long term / Continuous power: 250W-300W, Program: 500W-600W, Short term/ Peak power: 1000W-1200W Nominal Impedance: 4-8 ohm,Calculated Maximum SPL @ 1 m: 122-131dB.Coverage Pattern: At least 90° H x 50° VCE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.5.1]	each	193,205.78	193,183.17	193,096.83	193,096.83
12.26	Supply, Installation, Testing & Commissioning of Audio equalizers of following technical specification or equivalent-• Constant Q filters • Switchable 6dB / 12dB fader range • Switchable bypass with LED indicator • Four LED output level meter plus input clip indicator • Input gain adjustable between -6 dB and +6dB. • Built in soft limit helps prevent overloads that damage speakers.• XLR / 1 / 4" TRS balanced / unbalanced inputs/outputs • Ground lift switch quickly solves earth loop and external noise issues Balanced 20k ohm, unbalanced 10k ohm, > +21dBu balanced or unbalanced, > 40dB, typically > 5dB at 1kHz, Impedance-balanced / unbalanced, RF filtered, balanced 100 ohm, unbalanced 50 ohm, > +21dBu balanced / unbalanced into 2k ohm or greater, 20Hz to 20kHz, +0.5 /-1dB, < 10Hz to > 50kHz, +0.5 /-3dB, signal to noise : 90dB, THD + noise : < 0.004%.CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.19]	each	63,687.28	63,681.11	63,654.39	63,654.39

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.27	Supplying and Fixing of Floor type microphone stand complete with arms and mic holder. Foreign. Complete with required accessories and in conformity to specified codes & specification of international standards.Model & sample to be approved by the Engineer in charge. [PWD 16.22]	each	6,936.47	6,930.31	6,903.58	6,903.58
12.28	Supplying and Fixing of Table type microphone stand complete with arms and mic holder. Foreign. Complete with required accessories and in conformity to specified codes & specification of international standards. Model & sample to be approved by the Engineer in charge. [PWD 16.23]	each	5,927.19	5,921.03	5,894.31	5,894.31
12.29	Supplying and Fixing of Sound junction box for stage floor, one box containing of 5 socket outlet for the system (Local Custom Made). [PWD 16.27]	set	5,044.33	5,044.33	5,044.33	5,044.33
12.30	Supplying and Fixing of Best quality foreign made cables suitable for connection of microphone & speaker. [PWD 16.28]					
12.30.01	Microphone cables, 23 AWG (copper made twin core shielded , PVC Jacket, Cross linked PE Insulation, Dielectric strength: minimum 500 Vac) [PWD 16.28.1]	m	164.44	164.44	164.44	164.44
12.31	Supply and fixing of Line Array rigging accessories with the features of Flying Bar for Line Array Subwoofer, 4Nos.of Joint bar for hanging Line array speaker with subwoofer and locally fabricated MS frame for security purpose to hookup from main ceiling including necessary rowel bolt with supporting chain Lever(suitable for 4 unit).Model & sample to be approved by the Engineer in charge. [PWD 16.3]	lot	339,749.42	339,743.25	339,716.53	339,716.53
12.32	Column Speaker Supply, Installation, Testing & Commissioning of Column / wall speaker ideal for airports, lounges, convention centers, corporate boardrooms, hotels / hospitality, houses of worship, museums offices, of patois, spaces schools, theaters and theme parks, superior sound quantity, wide dispersion and smooth off-axis overage, superior sound quality, wide dispersion and smooth off axis coverage, fast and easy installation of following technical specification or equivalent- Line voltage : 70V / 100V Sensitivity : >85dB. Frequency response: 150Hz-15KHz. Enclosure material : Plastic Line Dispersion angle : 100°.CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.10]					
12.32.01	10W - 15W [PWD 16.10.1]	each	18,601.75	18,596.61	18,580.17	18,580.17
12.32.02	16W - 20W [PWD 16.10.2]	each	22,385.00	22,379.86	22,363.42	22,363.42
12.32.03	21W - 30W [PWD 16.10.3]	each	24,907.17	24,902.03	24,885.58	24,885.58
12.33	Horn Speaker Supply, Installation, Testing & Commissioning of Horn Speaker of following technical specification or equivalent- 15W-20W Sensitivity : 100-110dB Frequency response : 400 Hz – 7.5 kHz Minimum IP 65 rating CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge. [PWD 16.12]	each	15,826.75	15,822.64	15,806.19	15,806.19

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.34	Supply, Installation, Testing & Commissioning of Digital Signal Processors (DSP) based Digital loudspeaker management system of following technical specification or equivalent-Frequency Response (±0.5dB): 20Hz - 20KHzA/D D/A Converter :24-bit S/N Ratio: >105dBNumber of input: minimum 2Number of output: minimum 6PC connections: USB, RS485 CE Certified/UL ListedCountry of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh.Model & sample to be approved by the Engineer in charge. [PWD 16.31]	each	309,607.78	309,601.61	309,575.92	309,575.92
12.35	Supply, Installation, Testing & Commissioning of Audio multi effect processor of following technical specification or equivalent- Wave-adaptive virtual room reverb algorithms for natural reverb and delay. Up to 7 adjustable parameters plus 2-band EQ per effect. 24-bit A / D and D / A converters with 64 / 128-times oversampling. True stereo processing for realistic channel separation in stereo image. 100 factory presets plus 100 user memory locations. Analog Audio Performance: Frequency Response 10 Hz – 20kHz +0 dB/–0.5 dB. THD+N <0.0019% 10Hz – 20kHz. Dynamic Range >109 dB (A-weighted) A/A. Crosstalk typical <–80 dB 20Hz – 20kHz. Digital Input and Output: Connectors Dual RCA (S/PDIF). Format S/PDIF 24-bit. Sample Rate 44.1 or 48kHz. Processing Delay 3.7 ms @ 48 kHz. Frequency Response 10Hz to 22kHz ±0.5 dB @ 48kHz. CE Certified/UL Listed Country of Origin: USA, UK, Japan, EU Countries; suitable for use in tropical country like Bangladesh. Model & sample to be approved by the Engineer in charge. [PWD 16.2]	each	69,992.69	69,986.53	69,959.81	69,959.81
12.36	PROFILE SPOT LIGHT [PWD 18.1]					
12.36.01	Halogen Version Supply and fixing of professional profile spot light (halogen) of the following features of voltage rating : 230 V AC, 50 Hz, manual zooming system, natural convection cooling, housing in extruded aluminum and steel plate body, scratch resistant epoxy powder paint, projector can titled by +60 / - 45°. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH. Model & sample to be approved by the Engineer-in-charge. [PWD 18.1.1]					
12.36.01.01	1000 W [PWD 18.1.1.2]	each	98,746.83	98,730.39	98,670.78	98,670.78
12.37	FRESNEL SPOT LIGHT [PWD 18.2]					
12.37.01	Halogen VersionSupplying, fitting and fixing of FR spot light (halogen) of the following features of voltage 230 V AC, 50 Hz, manual zooming system, natural convection cooling, housing in extruded aluminium and steel plate body, scratch resistant epoxy power paint, projector can titled by +60 / - 45°.Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge. [PWD 18.2.1]					
12.37.01.01	500 W [PWD 18.2.1.2]	each	61,227.81	61,217.53	61,178.47	61,178.47
12.37.01.02	1000 W [PWD 18.2.1.1]	each	66,272.14	66,262.89	66,223.83	66,223.83
12.38	FLOOD LIGHT [PWD 18.4]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.38.01	Halogen Version Supplying and fixing of flood light with halogen lamp of the following features of voltage 230 VAC, 50 Hz, symmetric reflector of high purity aluminum hang able, electric cable complete with color filter frame etc. complete with all other accessories as per approval and direction of the Engineer. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH. Model & sample to be approved by the Engineer-in-charge. 500 W. [PWD 18.4.1]	each	18,412.64	18,401.33	18,358.17	18,358.17
12.39	CYCLOROMA LIGHT [PWD 18.5]					
12.39.01	Halogen Version Supplying and fixing of Cyclorama Light (halogen) having incandescent lamp of the following features of voltage: 230 V AC, 50Hz. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH. Model & sample to be approved by the Engineer-in-charge. 1000W. [PWD 18.5.1]	each	38,591.00	38,579.69	38,536.53	38,536.53
12.40	PAR [PWD 18.6]					
12.40.01	Halogen Version Supplying and fixing PAR 64 Classic LUX is a projector for PAR64 lamp (halogen) with the features of with the features of voltage 230 V AC, 50 Hz. With classic shape with long body, in 2 sections, with square filter frame and polish finishing, the projector is fitted with a GX16 lamp socket, with PVC cable 3 X 1.5mm 21m and cable seal, front protection grill with dense grid mesh. The top-quality ceramic bulb socket factures chromed contracts for higher contract efficiency.Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge.PAR 64 CAN (1000 W)[PWD 18.6.1]	each	23,835.19	23,817.72	23,748.86	23,748.86
12.41	SCANNER LIGHT	each				
12.41.01	Supply and fixing of scanner light with the features of DMX channels : 7 or 11 DMX, connectors : 3 - pin XLRPan and tilt : 180° / 90°, colors : 8 + white, split colors, continuous scroll at variable speeds gobos : 7 + open (5 metal + 2 glass), rotating, interchangeable, slot-n-lock, continuous scroll at variable speeds, light source : 1 (white) 60 W (2.3 A), 50,000 hours life expectancy, strobe rate: 0 to 35 Hz PWM, frequency : 1,200 Hz, beam angle : 15°, IL luminance : 9,110 lux @ 2 m, power linking: 5 units @ 120 V; 10 units @ 230V input voltage: 100 to 240 VAC, 50 Hz (auto -ranging) power and current : 104 W, 1.5 A @ 120 V, 50 Hz 102W, 0.8 A @ 230 V, 50 Hz, gobo size : 23.9mm outside, 20.5 mm image, 1 mm max thickness. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH. Model & sample to be approved by the Engineer-in-charge. 118 W. [PWD 18.7.1]	each	101,647.22	101,624.61	101,539.31	101,539.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.42	DIMMER Supply and Fixing of Dimmer with the specification of Number of Dimmer Channels, Channel Output Rating 10 Amps, Channel Output Connector Type, 4mm2 screw terminal, Two Power Option, Option that allows each channel to be set to dimming or direct mains power via relay, Channel MCB Breaking Capacity, 6,000 Amps, Channel MCB Type 1-pole MCB or optional 2-pole RCBO, RCD Protection Option (Qty) (2), Power Switching Component, Triac, Inductor Rise Time 200us, Channel Output Mimic LEDs (Qty) (24), Number of Cooling Fans 2, Fan Cooling Control Variable, 50Hz Frequency Auto-Select, 220V 3-phase Current (per phase) 80 Amps, Chassis Style Wallmount installation dimmer with hinged front door. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH. Model & sample to be approved by the Engineer-in-charge. [PWD 18.12]					
12.42.01	DIMMER 12 Channel (rack mounted) [PWD 18.12.2]	each	315,283.17	315,204.03	314,903.92	314,903.92
12.43	LIGHT CONTROLLER Supplying and fixing of x- channel light controller with the features of voltage 230 V AC, 50 Hz. y-channel models, recordable up and down fade times, multiple independent chase speeds.Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH.Complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified.Model & sample to be approved by the Engineer-in-charge. [PWD 18.13]					
12.43.01	24 Channel, max controlled channel, x=24, useable model channel, y= 12/24 [PWD 18.13.1]	each	266,098.86	265,758.67	264,471.89	264,471.89
12.44	LIGHT BATTEN (LOCAL) Supplying , Fabrication and fixing of a light batten to be suspended form ceiling with the following specification:Box frame: made of Aluminum sheet 18 SWG box frame size 16' to 20' long, 5" breadth 2" depth. Supporting horizontal bars made of 1" dia 20' length G.I pipe on top and bottom s of the box frame to be linked with box framed by 6" X 1" 3/16" flat iron bar at 4' interval welding finishing etc. complete. Supplying & fixing 13A/15A3-pin socket, with 8 to 10 nos. socket in each frame. Having the light batten with ceiling by 4 nos of ½" dia M.S rod with 4 nos M.S hook at bottom of the rod at 6" vertical interval, the rod to be fixed with ceiling by rowel plug and M.S plate with necessary, welding etc. complete i/c enamel painting. LOCAL MADEModel & sample to be approved by the Engineer-in-charge. [PWD 18.16]	each	41,751.42	41,637.33	41,208.75	41,208.75
12.45	COLOR GELATIN FILTER Supplying of Color Gelatin Filter of size 24"x20" of various color in conformity to specified codes & specification of international standard. Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge. [PWD 18.18]	each	1,499.53	1,497.47	1,488.22	1,488.22
12.46	HALOGEN SPARE LAMP [PWD 18.17]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.46.01	Quartz (Pin type) Supplying of Quartz halogen spare lamp (Pin Type Lamp) in conformity to specified codes & specification of international standard. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge. [PWD 18.17.1]					
12.46.01.01	500 W [PWD 18.17.1.3]	each	6,055.67	6,054.64	6,050.53	6,050.53
12.46.01.02	1000 W [PWD 18.17.1.2]	each	6,871.72	6,870.69	6,866.58	6,866.58
12.47	Tungsten Halogen Lamp Supplying of 1000W/500W tungsten halogen spare lamp in conformity to specified codes & specification of international standard. Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified.& Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge. [PWD 18.17.2]					
12.47.01	500 W [PWD 18.17.2]	each	1,127.47	1,126.44	1,122.33	1,122.33
12.47.02	1000 W [PWD 18.17.1]	each	1,457.39	1,456.36	1,453.28	1,453.28
12.48	DMX -512 Supplying and fixing of LED DMX Light Controller with the features of DMX512/1990 , 512 CH output with isolated optical. Up to 30 fixtures to be connected with a max 32 channels each. Users can allocate DMX channel to each intelligent fixture dynamically. The X/Y channel of different intelligent Fixtures can be controlled by modulation wheel. Up to 50 SHAPE generators. SHAPE track control is provided to control such effects like circles, lines and shapes etc. 30 Chases up to 100 steps each. Trigger mode selectable: synchrono, Auto, Manual speed. 6 chases, 30 scenes operated at the same time. At most 30 intelligent Fixtures can be selected simultaneously. Flash mem-card slot is provided. Each flash me-card can record the whole data of controller. LCD display with backlight. Power supply: AC 90-250 V /50 Hz.Country of origin : EU/G7 Countries or their licensed manufacturing units located globally complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified & Suitable for use in tropical country like BANGLADESH.Model & sample to be approved by the Engineer-in-charge. [PWD 18.13.3]	each	457,412.50	457,072.31	455,786.56	455,786.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.49	MONITOR 32" Supply and fixing of 32" Monitor of following technical specification or equivalent: Screen Size: 32" Resolution: 1,366 x 768 or higher HDR (High Dynamic Range): HDR HDR 10+: Support Contrast Enhancer: Yes Auto Motion Plus: Yes Dolby Digital Plus: Yes Sound Output (RMS): 20W Speaker Type: 2CH Active Noise Reduction: Yes Aspect ratio: '4:3 /16:9 Wide Screen: Yes Sound Mirroring: Yes WiFi Direct: Yes HDMI: 2 (with minimum 3 meter HDMI Cable) USB : 1 Power Supply: AC220-240V 50/60Hz Power Consumption (Max): 60 W Accepted/ Approved by the Engineer in Charge [PWD 15.6.3]	each	36,447.06	36,447.06	36,447.06	36,447.06
12.50	IP Camera & Accessories :Type -B [PWD 15.2]					
12.50.01	Supply and fixing of 8 Channel NETWORK VIDEO RECORDER (NVR) of following technical specification or equivalent : IP Camera Input: 8 channels Network Bandwidth:Incoming-80 Mbps , Outgoing -80 Mbps or above Audio Output: Yes Interface: 1 HDMI, 1 VGA Resolution: HDMI: 3840×2160, 1920×1080, 1280×1024, 1280×720 : VGA: 1920×1080, 1280×1024, 1280×720 Decoding Capacity: 1ch@8MP 30fps, 4ch@1080P 30fps/2-ch@12 MP (20 fps)/4-ch@8 MP (25 fps)/8-ch@4 MP (30 fps) compression: Video:H.265+/H.265/H.264+/H.264/ Audio compression: G.711ulaw /G.711alaw / G.722/ G.726 Resolution:8MP/6MP/5MP/4MP/3MP/1080P/ 720P/etc. Two-way Talk: 1-ch, RCA Sync Playback: 4 ch Search Mode: Time /Date, MD and Exact Search : (accurate to second) Playback Function: Play, Pause, Stop, Rewind, Fast play, Slow Play, Next File, Previous File, Next Camera, Previous Camera, Full Screen, Shuffle, Backup Selection, Digital Zoom Interface: 1, RJ-45 10/100/1000 Mbps self-adaptive Ethernet interface PoE: 8 ports (IEEE802.3at/af) Internal HDD: At least 1 SATA interfaces Up to 10 TB capacity for each HDD. USB: Front panel: 1 × USB 2.0; Rear panel: 1 × USB 3.0/USB 2.0 Power Supply: Single, DC54V/ 100 to 240 VAC, 50 Hz Power Consumption: NVR: ≤ 15 W (without HDD); PoE: ≤ 80W Certifications: CE,FCC Accepted/ Approved by the Engineer in Charge [PWD 15.2.1]	each	18,917.28	18,917.28	18,917.28	18,917.28

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.50.02	Supply and fixing of 16 Channel NETWORK VIDEO RECORDER (NVR) of following technical specification or equivalent : IP Camera Input :16 channels Network Bandwidth: Incoming-160 Mbps , Outgoing -96 Mbps or above Resolution: 8MP, 6MP, 5MP, 4MP, 3MP, 1080p, 1.3MP, 720p, etc. Decoding Capability: 2-ch@12 MP (20 fps)/4-ch@8 MP (25 fps)/8-ch@4 MP (30 fps)/16-ch@1080p (30 fps)/ 8 channels@1080p (30 fps). Video Output: HDMI: 3840 × 2160; 1920 × 1080; 1280 × 1024; 1280 × 720. VGA: 1920 × 1080; 1280 × 1024; 1280 × 720 Video compression: H.265+/H.265/H.264+/H.264 Audio: PCM/G.711A/ G.711U; /G.722/G.726 Network Protocol: HTTP; HTTPS; TCP/IP; IPv4/IPv6; SNMP; RTSP; SMTP; NTP; DHCP; DNS; DDNS; FTP; etc. Playback Function: 1. Play; pause; stop; fast forward; fast backward; rewind; play by frame. 2. Full screen; backup (cut/file) ; partially enlarge; audio on/off. Audio Input: 1 channel, RCA connector Audio Output: 1-ch, RCA HDD: 4 SATA interfaces Up to 10 TB capacity for each disk Alarm Input: 16 channels Alarm Output: 4 channels RS-232: 1 RS-232 RS-485: 1 RS-485 USB: 1 front USB 2.0 port, 1 rear USB 3.0 port Network: 1 RJ-45 10/100/1000 Mbps self-adaptive Ethernet port PoE: 16 ports (IEEE802.3at/af) Power Supply: Single, 100V–240V AC, 50 Hz Power Consumption: NVR: ≤ 20 W(without HDD) ≤ 150 W Supported standard IEEE 802.3 af/at Operating Temperature: -10 °C to 55 °C (14 °F to 131 °F) Operating Humidity: 10% to 90% Certifications: CE, FCC Accepted/ Approved by the Engineer in Charge [PWD 15.2.2]	each	60,534.06	60,534.06	60,534.06	60,534.06

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.51	Supply and fixing of 2 MP, Fixed-focal, IP DOME Camera (including lens, bracket, housing) of following technical specification or equivalent: Image Sensor: 1/2.8" or above ,2 Megapixel (minimum) progressive CMOS Max. Resolution: 1920 (H) ×1080 (V) Scanning System: Progressive Electronic Shutter Speed: 1/3 s to 1/100,000 s Min. Illumination: Color: minimum 0.005 Lux @ (F1.2/F1.6, AGC ON), 0 Lux with IR S/N Ratio: ≥ 52 dB IR Illumination Distance: 30 m or above Pan/Tilt/Rotation Range: Pan: 0° to 355° , tilt: 0° to 65°, rotate: 0° to 355° Lens Type: Fixed-focal Mount Type: M12 Focal Length: 2.8/3.6/4/6mm Max. Aperture: F1.6 Field of View: 2.8 mm, horizontal field of view: 106° or above; 3.6 mm, horizontal field of view: 87° or above ; 4 mm, horizontal field of view: 86.4° or above Iris Type: Fixed Smart event: Line crossing /Tripwire detection, intrusion detection Video Compression: H.265/H.264 Video Frame Rate: Main :1920 × 1080 (1 fps-25/30 fps) Sub:704 × 576 (1 fps-25fps)/50Hz: 25fps (640 × 480) Stream Capability: 2 streams Video Bit Rate: 32 kbps–6144 kbps/32 Kbps to 16 Mbps BLC: Yes HLC: Yes 'WDR: 120dB White Balance: yes Noise Reduction: 3D NR Motion Detection: yes Region of Interest(RoI): yes Smart Illumination: yes Image Rotation: yes Privacy Masking: yes Alarm Event: Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error); intrusion detection, line crossing /tripwire detection Network : 1 RJ45 10M/100M self-adaptive Ethernet port Cyber Security: Password protection, encryption, , 802.1X authentication, IP address filtering, Digest, WSSE etc. Protocol: "TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP,IGMP, 802.1X, IPv6, UDP, Bonjour, etc." Interoperability: ONVIF (PROFILE S, PROFILE G, PROFILE T) User/Host: at least 20 Storage: Micro SD card (support min 128 GB); NAS;FTP Browser : IE, Chrome, Firefox Power Supply : 12V DC/PoE (802.3 at /af) Operating Conditions : -30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing) Protection: "IP67, IK10 Casing: Camera body: metal, bubble: plastic Certifications: CE,FCC Accepted/ Approved by the Engineer in Charge [PWD 15.2.3]	each	10,088.67	10,088.67	10,088.67	10,088.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.52	Supply and fixing of 2 MP, Fixed-focal, IP Bullet CAMERA (including lens, bracket, housing) of following technical specification or equivalent : Image Sensor: 1/2.8" Progressive Scan CMOS Max. Resolution: 1920 × 1080 Scanning System: Progressive Scan Electronic Shutter Speed : 1/3 s to 1/100,000 s Min. Illumination: Color: 0.005 Lux @ (F1.2/F1.6, AGC On) ,0 Lux with IR S/N Ratio: ≥ 52 dB IR Illumination Distance: up to 80 m Pan/Tilt/Rotation Range: Pan: 0° to 360°, tilt: 0° to 100°, rotate: 0° to 360° Lens Type: Fixed-focal Mount Type: M12 Focal Length: 3.6/4/6/8 mm Max. Aperture: F1.6 Field of View: 3.6~4 mm, horizontal field of view: 86.4°-87°,6 mm, horizontal field of view: 52°~54°,8 mm, horizontal field of view: 41°~44°, Iris Type: Fixed Smart event: Line crossing /Tripwire detection, intrusion detection Video Compression: H.265; H.264; Video Frame Rate: main: 1920 × 1080 (1 fps–25/30 fps) sub (704 × 576, 640 × 480, 640 × 360, 320 × 240)(1 fps–25 fps). Stream Capability: minimum 2 streams. Video Bit Rate: 12 kbps–6144 kbps or above BLC: yes HLC: yes WDR: 120 dB White Balance: adjustable by client software or web browser Noise Reduction: 3D NR Motion Detection: yes Region of Interest (RoI): Yes (2 areas- minimum) Smart Illumination: yes Image Rotation: 0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.) Mirror: yes Privacy Masking: yes Audio Compression: G.711a; G.711Mu; G.726 Alarm Event: Motion detection, video tampering alarm, exception (network disconnected, IP address conflict, illegal login, HDD full, HDD error) intrusion detection, line crossing /tripwire detection. Network:1 RJ45 10M/100M self-adaptive Ethernet port. Cyber Security: Password protection, encryption, HTTPs, 802.1X authentication, IP address filtering, Digest, WSSE etc. Protocol: TCP/IP, UDP, ICMP, HTTP, HTTPS, FTP, DHCP, DNS, DDNS, RTP, RTSP, RTCP, PPPoE, NTP, UPnP, SMTP, IGMP, 802.1X, IPv6, UDP, Bonjour, etc. Interoperability: ONVIF (PROFILE S, PROFILE G, PROFILE T). User/Host: minimum 20 users Storage: FTP; Micro SD card (support up to. 128 GB); NAS; SFTP. Browser: IE, Chrome, Firefox Power Supply: 12 VDC ± 25%, PoE(802.3 at /af) Power Consumption: 12.5 W max Operating Conditions: -30 °C to +60 °C (-22 °F to +140 °F), Humidity 95% or less (non-condensing). Protection: IP 67 Casing: Metal Certifications: CE,UL,FCC Accepted/ Approved by the Engineer in Charge [PWD 15.2.4]	each	10,088.67	10,088.67	10,088.67	10,088.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.53	STANDARD MASTER TELEPHONE SET 16+24 button DSS control Supply & installation of standard master telephone set including display, date, time & 16+24 button DSS control. Suitable for use in tropical country like Bangladesh complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified. Model & sample to be approved by the competent authority. [PWD 17.2]					
12.53.1	For use in 8+32 line system [PWD 17.2.2.1]	each	9,547.03	9,547.03	9,543.94	9,543.94
12.53.2	For use in 16+120 line system [PWD 17.2.2.2]	each	12,069.19	12,069.19	12,066.11	12,066.11
12.54	SINGLE LINE TELEPHONE SET - NORMAL USE [PWD 17.3]					
12.54.01	NORMAL USESupply, installation, testing & commissioning of single line telephone set for normal use with provision volume up+down, redial, flash etc.. complete. Suitable for use in tropical country like Bangladesh complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified. Model & sample to be approved by the Engineer in charge. [PWD 17.3.1]	each	1,601.28	1,601.28	1,599.22	1,599.22
12.55	SINGLE LINE TELEPHONE SET - EXECUTIVE USE [PWD 17.3.2]					
12.55.01	Supply, installation, testing & commissioning of single line telephone set for executive use with provision volume up+ down, redial, flash etc.. including display with CID system (Min 30 Stations) complete.Suitable for use in tropical country like Bangladesh complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified. Model & sample to be approved by the Engineer in charge. [PWD 17.3.2.1]	each	2,736.97	2,736.97	2,733.89	2,733.89
12.56	MULTIMEDIA PROJECTOR Supply, installation, testing, commissioning multimedia projector including all necessary accessories & Warranty/Service Support of following technical specification or equivalent: Projection Technology: RGB liquid crystal shutter projection system (3LCD); Brightness: 5,000lm or above;Connectivity: Network: Wired LAN: RJ45 x 1; Wireless : Optional; Analog Input : D-Sub 15Pin: 2 (1 Blue, 1 Black); Composite : 1Digital; Input : HDMI: 2 HDBASET (RX): N/AOutput Terminal: D-Sub 15Pin: 1 (Black); Audio Input : RCA (White/Red): 1; Stereo Mini Jack: 2Audio Output: Stereo Mini Jack: 1Control; USB Type B: 1 (for USB Display, Mouse, K/B, Control, Firmware Update, Copy OSD Settings); Contrast Ratio: 15,000:1; Screen Size (Projected Distance): Zoom : Wide: 50" - 300" [1.46 - 8.95 m]; Zoom: Tele: 50" -300" [2.43 - 14.79 m] Operating Temperature: Below 2,286m / 7,500ft: 5 - 40 °C <41 - 104 °F> Above 2,286m / 7,500ft (w/ High Altitude Mode): 5 - 35 °C <41 - 95 °F>; Sound Output: 16W Power Consumption: (220 - 240V); Lamp On (Normal/Eco) : 405W / 323WNetworked Standby (maximum); Energy Saving: 2.41W / 0.31W; Fan Noise (Normal/Eco) : 39dB / 29dB LCD: Size: 0.76" (D10, C2 Fine); Native Resolution: WUXGA (1920 x 1200); Projection Lens: Type: Optical Zoom (Manual) / Focus (Manual); F-Number: 1.5 - 2.0; Focal Length : 23 - 38.4 mm Zoom Ratio: 1 - 1.6; Throw Ratio: 1.38 - 2.28 (Wide to Tele)Lamp: Type: Lamp; Life (Normal / Eco)*1: 5,000 / 10,000 hours (Minimum); Suitable for use in tropical country like BANGLADESH. Complete with required accessories and in conformity to specified codes & specification of international standards & CE / UL / CSA certified.; Warranty : Minimum 1 Year; Accepted/approved by the engineer-in-charge. [PWD 10.3.1]	each	265,090.61	264,976.53	264,547.94	264,547.94

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.57	MULTIMEDIA SCREEN Supply, installation, testing, commissioning multimedia projector screen including all necessary accessories & Warranty/Service Support of following technical specification or equivalent:[PWD-10.4]					
12.57.1	5' x 5' Motorized/ Electric screen[PWD-10.4.1.3]	each	8,323.97	8,321.92	8,318.83	8,318.83
12.57.2	6' x 6' Motorized/ Electric screen[PWD-10.4.2.3]	each	9,585.06	9,583.00	9,579.92	9,579.92
12.57.3	10'x7.5'Motorized/ Electric screen (Motorized 150" Diagonal)[PWD-10.4.5.2]	each	20,934.81	20,933.78	20,929.67	20,929.67
12.58	SOLAR SYSTEM					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.58.1	OFF- GRID SOLAR PANEL SYSTEM: Supplying, installation, testing & commissioning of following capacity solar system (off grid) for 2 Hrs backup with required quantities of mono / poly crystalline silicon solar PV modules,Solar suited Deep Cycle Lead Acid battery (12V), with required size maximum power point tracking (MPPT)/PWM charge-controller & inverter as per relevant international standards & certification such as IEC / CE / UL as per following specification to produce AC- 220V, 50Hz pure sine wave for suitable use of all standard AC appliances with battery racks / cabinet, solar PV mounting structure, combiner box, fuse box, meter etc. system includes compatible solar cables, equipotential bonded and earthed with the building earth electrode which is conventional and / or chemical electrode system and all accessories as required to complete the installation with one year free operation & maintenance of the system which shall have the following features: SOLAR PV MODULES/PANEL: I. Parameters for PV Panel should be at Standard Test Condition of solar irradiance of 1000 W/m2, Cell Temperature of 25 degree Celsius and AM of 1.5g. II. Solar PV module / panel shall be inconformity with the requirement of BDS IEC 61215, IEC 61730 (latest edition) along with VDE/NEMA/JIS/BS standards. Certificate issued by the internationally recognized authority such as CE / TUV /DNV or equivalent certifying body shall have to be submitted by the bidder for the above mentioned international standard. Manufacturing facility should be ISO9001, ISO14001 quality management system certified. III. Solar panels shall be installed pointing to the right direction to capture most of the solar energy to transform it into electricity with the facility to be adjusted from the horizontal to 12 degree in summer and to 35 degree in winter to get the maximum efficiency and must face the true south in our country. For fixed panel mounting system, the panels must be tilted (22.5 ± 1) degree with horizontal and must face the true south in BANGLADESH." IV. The average efficiency of PV module should be minimum 17%. V. The complete PV module shall be diode protected at junction box to protect reverse current. VI. Operating temperature range should be -40 to 85 Degree Celsius. VII. Power de-rating allowed should be not more than (-0.41%)/Degree Celsius VIII. Panels should be constructed with anti-reflective glass, anti Potential Induced Degradation(PID), IEC 61701 IX. Modules fitted with anodized aluminum frames or, if without frame, two-glass modules. X. Resistance to a maximum pressure load of 5400 Pa and vacuum of 2400 Pa (according to BDS IEC 61215) XI. Each module will be provided with a clearly visible identifier bearing the name, the model of the module and a visual identification or a serial number which allows the traceability of the date of manufacture in accordance with standard NF EN 50380 XII. Each combiner box of PV module shall be diode protected to ensure any back flow current to the PV array and may have fuse of adequate ratings in DC positive line of the PV array and wire terminals. The main combiner box shall have lightning surge protective device of as per nominal voltage of the combiner box both in positive and negative line in order to ensure the bypass diode always function even in thunder storm. The fuse, if exists, shall also have disconnection switch .The box shall be completely water proof according to IP 68. XIII. Product warranty against manufacturing defects : minimum 12 years and their replacement during this period. XIV. Performance warranty: linear degradation, minimum 98% at 1 year, then linear with minimum 90% at 10 years, and 80% at 25 years Solar panel from Sunpro/Vikram/Saronic/Suntech/ULICA/Canadian Solar/JA Solar/Trina Solar/Longi or equivalent. CHARGE CONTROLLER:	kWp	181,824.17	181,824.17	181,824.17	181,824.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
	MPPT / PWM (Pulse Wave Modulator) solar charge controller shall be protected from: I)Overcharge protection (adjustable) II)Over discharge protection (for DC load and less than 200 Wp system) III)Battery reverse current protection IV)Overloading protection V)Temperature compensated charging VI)Short circuit protection VII)Reverse polarity connection protection VIII)Lightning induced surge current protection Power consumption should be less than 20 mw. The controller should be microprocessor controlled with wide input range, cooling fan temperature compensation (-3 to 7mV / cell / Celsius), more than one-step charging to provide quick and safe charging for battery, 7 modes timer control (on / off DC load) selectable, automatic etc. as required. IX.Power conversion efficiency: 90%" INVERTER: The Inverter is specially designed for DC to AC power which provides pure sine wave. Supplier is allowed to use Off Grid Inverter for designing the system keeping in mind that, utility grid cannot be used for battery charging, they may use battery bank for reference input. The inverter(s) shall comply with the following requirements: I. Adopt power frequency transformed, pure sine wave output, adapt to different load. II. Excellent protection design against output short circuit, working reliably. III. High inverting efficiency, energy saving and environmental protection. IV. LCD + LED display show the working status clearly. V. Design, manufacturing, performance, testing, safety, quality and environmental management shall be in accordance to the BDS IEC 62109/BS/VDE or equivalent international standards. VI. Should conform to ISO 9001, 14001 & 45001 standard. VII. The Inverter manufacturer shall have at least 05 (five) years of experience, nominal input voltage: 24/48V DC, output : 220V AC, output waveform : pure / modified sine wave, self consumption : less than 1 (one) watt, Efficiency : 97% or higher at operating load range from 10% to 100% rated load, Energy source : Priority to solar then battery. VIII. The Inverter shall be protected from lightning induced current by surge protective device of adequate rating both in DC and AC side in parallel at the entry and exit terminal of the inverter. The inverter shall also be protected for overload and over current protection from both DC and AC side. IX. Frequency ranges: 50-60 Hz, Relative humidity: 0- 95%, non-condensing, Operating temperature range: 0- 55°C, Cooling method: Natural Convention, Topology -Transformerless , Noise - <30dB , Protection – IP65. X. Brand: Solar Inverter from SAJ/Solis/Huawei or equivalent BATTERY: Solar suited Deep Cycle Lead Acid battery(12V) Compliance : ISO9001 & ROHS (Restriction of Hazardous Substances) certified company. ENERGY METER: Supplying and installation of energy meters with following features: I.Single phase / three phase (as per requirement) II. Energy meter to be provided to record the amount of solar energy provided from the solar system. GENERAL GUIDELINE/CRITERIA: I. The bidder shall examine the site before the design of solar system & its components II. The bidder shall have facilities and proper tools and machineries for installing, testing & commissioning of solar panel.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
	III. Adequate space & height shall be provided in the rows of panels for easy air flow to avoid excessive heat generation in the panel and to provide access for rain water drainage and damage to protect from dirty water. Minimum air gap between two panels shall be 25 mm." IV.All frames of the PV module, combiner box, inverter etc. shall be equipotential bonded and earthed with the building earth electrode which is conventional and / or chemical electrode system with soil conductivity enhancing material that the earth resistance must be less than 1 Ohm as per related standard and code of practice. V. The solar panel mounting shall be of galvanized iron or equivalent to ensure rust protection of the installation. All nut bolts shall be of stainless steel (SS) or galvanized mild steel (MS) materials. VI. After successful completion, testing & commissioning of the whole system the contractor shall have to train nominated person(s) of the user for a period of at least 2 days. VII. After completion of whole system and before handing over the system to the concerned authority, the contractor must have to provide minimum 30 days' satisfactory operation for performance evaluation. VIII. Technical specification with catalogue of PV module, inverter must be submitted with technical offer. IX. Only approved cable shall be used for wiring. X. Sufficient AC and DC circuit breakers shall be used to ensure proper safety of the system. [PWD 12.1]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
12.58.2	ON - GRID SOLAR PANEL SYSTEM: Supplying, installation, testing & commissioning of solar power system (on grid / grid tie) with required quantities of mono / poly crystalline silicon solar PV modules, inverter, energy meter, etc. as per following standards, specifications and certification. The system will be able to produce power for supplying to grid with required compatible solar cables (DC cables) and all necessary accessories to complete the installation providing one-year free operation & maintenance of the system. Solar system shall have to comply following specification: SOLAR PV MODULE/PANEL: SPECIFICATIONS FOR SOLAR PANEL:" I. Parameters for PV Panel should be at Standard Test Condition of solar irradiance of 1000 W/m2, Cell Temperature of 25 degree Celsius and AM of 1.5g. II. Solar PV module / panel shall be inconformity with the requirement of BDS IEC 61215, IEC 61730 (latest edition) along with VDE/NEMA/JIS/BS standards. Certificate issued by the internationally recognized authority such as CE / TUV /DNV or equivalent certifying body shall have to be submitted by the bidder for the above mentioned international standard. Manufacturing facility should be ISO9001, ISO14001 quality management system certified. III. Solar panels shall be installed pointing to the right direction to capture most of the solar energy to transform it into electricity with the facility to be adjusted from the horizontal to 12 degree in summer and to 35 degree in winter to get the maximum efficiency and must face the true south in our country. For fixed panel mounting system, the panels must be tilted (22.5 ± 1) degree with horizontal and must face the true south in BANGLADESH. IV. The average efficiency of PV module should be minimum 17%. V. The complete PV module shall be diode protected at junction box to protect reverse current. VI. Operating temperature range should be -40 to 85 Degree Celsius. VII. Power de-rating allowed should be not more than (-0.41%)/Degree Celsius VIII. Panels should be constructed with anti-reflective glass,anti PID, IX. Modules fitted with anodized aluminum frames or, if without frame, two-glass modules. X. Resistance to a maximum pressure load of 5400 Pa and vacuum of 2400 Pa (according to BDS IEC 61215) XI. Each module will be provided with a clearly visible identifier bearing the name, the model of the module and a visual identification or a serial number which allows the traceability of the date of manufacture in accordance with standard NF EN 50380 XII. Each combiner box of PV module shall be diode protected to ensure any back flow current to the PV array and may have fuse of adequate ratings in DC positive line of the PV array and wire terminals. The main combiner box shall have lightning surge protective device of as per nominal voltage of the combiner box both in positive and negative line in order to ensure the bypass diode always function even in thunder storm. The fuse, if exists, shall also have disconnection switch .The box shall be completely water proof according to IP 68. XIII. Product warranty against manufacturing defects : minimum 12 years and their replacement during this period XIV. Performance warranty: linear degradation, minimum 98% at 1 year, then linear with minimum 90% at 10 years, and 80% at 25 years. Solar panel from Sunpro/Vikram/Saronic/Suntech/ULICA/Canadian Solar/JA Solar/Trina Solar/Longi or equivalent. INVERTER: The inverter shall be suitable for using on grid / grid tie solar panel. The inverter shall have following features: I. Inverter type: grid tie.	kWp	136,104.50	136,104.50	136,104.50	136,104.50

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
	II. Built in MPPT charge controller. III. AC grid voltage 230 ± 5% (single phase)/ 415v ± 5% (three phase) AC IV. AC grid frequency: 50±4 Hz V. Power factor: cosθ = 1. VI. Operating temperature range: -25°C to 60°C VII. Relative humidity: 0- 95%, non- condensing VIII. Total harmonic distortion : <3% IX. Efficiency: minimum 95% X. Noise <40 dB at 1m distance XI. Internal power consumption: <1 W for 1 kWp inverter XII. Communication port: RS 485 / RS 232 shall have the option to be incorporated with remote monitoring system. XIII. Degree of protection: according to IP65 and IEC 60529. XIV. Shall have integrated AC Short Circuit Current Protection XV. Shall have built in Anti Islanding protection XVI. Shall have protection against abnormal voltage and abnormal frequency. XVII. Shall have lightning induced current protection by surge protective device of adequate rating both in DC and AC side in parallel at the entry and exit terminal of the inverter. Shall also have over load and over current protection from both DC and AC side. " XVIII. Compliance: ISO9001 & ROHS (Restriction of Hazardous Substances) certified company. XIX. Test result from BUET or Institute of Renewable Energy, Dhaka University for key specification items of solar inverter (self-consumption, efficiency, solar priority, dual mode with auto switching, power factor) shall be provided. XX. Brand: Solar Inverter from SAJ/Solis/Huawei or equivalent ENERGY METER: Supplying and installation of energy meters with following features: I. Single phase / three phase (as per requirement) II. Energy meter to be provided to record the amount of solar energy provided from the solar system. OPERATION AND MONITORING: Following scopes should be included: I. Remote monitoring (web / smart phone based) using available technology such as GSM/GPRS/Ethernet etc. II. Local monitoring using LCD/LED display and data logger. III. Field programmability GENERAL GUIDELINES/CRITERIA: I.The bidder shall examine the site before the design of solar system & its components II.The bidder shall have facilities and proper tools and machineries for installing, testing & commissioning of solar panel. III.Adequate space & height shall be provided in the rows of panels for easy air flow to avoid excessive heat generation in the panel and to provide access for rain water drainage and damage to protect from dirty water. Minimum air gap between two panels shall be 25 mm." IV.All frames of the PV module, combiner box, inverter etc. shall be equipotential bonded and earthed with the building earth electrode which is conventional and / or chemical electrode system with soil conductivity enhancing material that the earth resistance must be less than 1 Ohm as per related standard and code of practice. V. The solar panel mounting shall be of galvanized iron or equivalent to ensure rust protection of the installation. All nut bolts shall be of stainless steel (SS) or galvanized mild steel (MS) materials. VI. After successful completion, testing & commissioning of the whole system the contractor shall have to train nominated person(s) of the user for a period of at least 2 days. VII. After completion of whole system and before handing over the system to the concerned authority, the contractor must have to provide minimum 30 days' satisfactory operation for performance evaluation.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
	VIII. Technical specification with catalogue of PV module, inverter must be submitted with technical offer. IX. Only approved cable shall be used for wiring. X. Sufficient AC and DC circuit breakers shall be used to ensure proper safety of the system. [PWD 12.2]					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 13 : Mechanical Works						
13.01	Supplying, fitting, fixing and installation Piston of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.01.01	Mitsubishi Outlander Jeep	set	31,315.91	31,315.91	31,313.33	31,313.33
13.01.02	Microbus LiteAce	set	7,670.08	7,670.08	7,667.49	7,667.49
13.02	Supplying, fitting, fixing and installation Piston ring of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.02.01	Mitsubishi Outlander Jeep	set	13,109.25	13,109.25	13,106.66	13,106.66
13.02.02	Microbus LiteAce	set	7,039.52	7,039.52	7,036.94	7,036.94
13.03	Supplying, fitting, fixing and installation Overhauling Kit of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.03.01	Mitsubishi Outlander Jeep	set	10,507.58	10,507.58	10,504.99	10,504.99
13.03.02	Microbus LiteAce	set	4,517.30	4,517.30	4,514.71	4,514.71
13.04	Supplying, fitting, fixing and installation Main and big end bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.04.01	Mitsubishi Outlander Jeep	set	4,138.97	4,138.97	4,136.38	4,136.38
13.04.02	Microbus LiteAce	set	3,130.08	3,130.08	3,127.49	3,127.49
13.05	Supplying, fitting, fixing and installation Engine head valve of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.05.01	Mitsubishi Outlander Jeep	set	16,577.31	16,577.31	16,574.72	16,574.72
13.05.02	Microbus LiteAce	set	8,931.19	8,931.19	8,928.60	8,928.60
13.06	Supplying, fitting, fixing and installation Engine head valve guide of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.06.01	Mitsubishi Outlander Jeep	set	2,625.63	2,625.63	2,623.05	2,623.05
13.06.02	Microbus LiteAce	set	1,995.08	1,995.08	1,992.49	1,992.49
13.07	Supplying, fitting, fixing and installation Connecting rod bush of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.07.01	Mitsubishi Outlander Jeep	set	2,373.41	2,373.41	2,370.83	2,370.83
13.07.02	Microbus LiteAce	set	1,995.08	1,995.08	1,992.49	1,992.49

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.08	Supplying, fitting, fixing and installation Cam shaft of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.08.01	Mitsubishi Outlander Jeep	nos	3,918.27	3,918.27	3,915.69	3,915.69
13.09	Supplying, fitting, fixing and installation Oil pump of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.09.01	Mitsubishi Outlander Jeep	nos	29,581.88	29,581.88	29,579.30	29,579.30
13.09.02	Microbus LiteAce	nos	6,156.74	6,156.74	6,154.16	6,154.16
13.10	Supplying, fitting, fixing and installation Water pump of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.10.01	Mitsubishi Outlander Jeep	nos	9,641.19	9,641.19	9,638.61	9,638.61
13.10.02	Microbus LiteAce	nos	3,382.30	3,382.30	3,379.71	3,379.71
13.11	Supplying, fitting, fixing and installation A/C pump of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.11.01	Mitsubishi Outlander Jeep	nos	6,692.72	6,692.72	6,690.13	6,690.13
13.11.02	Microbus LiteAce	nos	7,039.52	7,039.52	7,036.94	7,036.94
13.12	Supplying, fitting, fixing and installation Pressure plate of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.12.01	Mitsubishi Outlander Jeep	nos	13,109.25	13,109.25	13,106.66	13,106.66
13.12.02	Microbus LiteAce	nos	7,670.08	7,670.08	7,667.49	7,667.49
13.13	Supplying, fitting, fixing and installation Clutch plate of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.13.01	Mitsubishi Outlander Jeep	nos	7,907.17	7,907.17	7,904.58	7,904.58
13.13.02	Microbus LiteAce	nos	6,913.41	6,913.41	6,910.83	6,910.83
13.14	Supplying, fitting, fixing and installation Carburettor complete of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.14.01	Mitsubishi Outlander Jeep	nos	52,124.24	52,124.24	52,121.66	52,121.66
13.14.02	Microbus LiteAce	nos	35,414.52	35,414.52	35,411.94	35,411.94
13.15	Supplying, fitting, fixing and installation Engine mounting of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.15.01	Mitsubishi Outlander Jeep	set	22,645.77	22,645.77	22,643.19	22,643.19
13.15.02	Microbus LiteAce	set	3,634.52	3,634.52	3,631.94	3,631.94
13.16	Supplying, fitting, fixing and installation Engine fan of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.16.01	Mitsubishi Outlander Jeep	nos	7,039.52	7,039.52	7,036.94	7,036.94
13.16.02	Microbus LiteAce	nos	4,517.30	4,517.30	4,514.71	4,514.71
13.17	Supplying, fitting, fixing and installation Fan belt of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.17.01	Mitsubishi Outlander Jeep	nos	5,305.49	5,305.49	5,302.91	5,302.91
13.17.02	Microbus LiteAce	nos	923.13	923.13	920.55	920.55
13.18	Supplying, fitting, fixing and installation Dynamo complete of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.18.01	Mitsubishi Outlander Jeep	set	42,981.19	42,981.19	42,978.60	42,978.60
13.18.02	Microbus LiteAce	set	15,867.30	15,867.30	15,864.71	15,864.71
13.19	Supplying, fitting, fixing and installation Self starter of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.19.01	Mitsubishi Outlander Jeep	nos	12,083.97	12,083.97	12,081.38	12,081.38
13.19.02	Microbus LiteAce	nos	12,083.97	12,083.97	12,081.38	12,081.38
13.20	Supplying, fitting, fixing and installation Mobil filter of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.20.01	Mitsubishi Outlander Jeep	nos	923.13	923.13	920.55	920.55
13.20.02	Microbus LiteAce	nos	1,049.24	1,049.24	1,046.66	1,046.66
13.21	Supplying, fitting, fixing and installation Fuel filter of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.21.01	Mitsubishi Outlander Jeep	nos	4,517.30	4,517.30	4,514.71	4,514.71
13.21.02	Microbus LiteAce	nos	860.08	860.08	857.49	857.49
13.22	Supplying, fitting, fixing and installation Air cleaner filter of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.22.01	Mitsubishi Outlander Jeep	nos	2,373.41	2,373.41	2,370.83	2,370.83
13.22.02	Microbus LiteAce	nos	1,616.74	1,616.74	1,614.16	1,614.16

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.23	Supplying, fitting, fixing and installation Horn of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.23.01	Mitsubishi Outlander Jeep	nos	986.19	986.19	983.60	983.60
13.23.02	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.24	Supplying, fitting, fixing and installation Release bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.24.01	Mitsubishi Outlander Jeep	nos	5,147.86	5,147.86	5,145.27	5,145.27
13.24.02	Microbus LiteAce	nos	2,373.41	2,373.41	2,370.83	2,370.83
13.25	Supplying, fitting, fixing and installation Shock absorber of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.25.01	Mitsubishi Outlander Jeep	set	48,656.19	48,656.19	48,653.60	48,653.60
13.25.02	Microbus LiteAce	set	12,714.52	12,714.52	12,711.94	12,711.94
13.26	Supplying, fitting, fixing and installation Shock absorber mounting of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.26.01	Mitsubishi Outlander Jeep	set	8,931.19	8,931.19	8,928.60	8,928.60
13.26.02	Microbus LiteAce	set	6,408.97	6,408.97	6,406.38	6,406.38
13.27	Supplying, fitting, fixing and installation Brake shoe/ pad complete of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.27.01	Mitsubishi Outlander Jeep	set	6,173.14	6,173.14	6,170.55	6,170.55
13.27.02	Microbus LiteAce	set	5,147.86	5,147.86	5,145.27	5,145.27
13.28	Supplying, fitting, fixing and installation Wheel cylinder complete of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.28.01	Mitsubishi Outlander Jeep	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.28.02	Microbus LiteAce	nos	3,886.74	3,886.74	3,884.16	3,884.16
13.29	Supplying, fitting, fixing and installation Tie rod end of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.29.01	Mitsubishi Outlander Jeep	set	5,147.86	5,147.86	5,145.27	5,145.27
13.29.02	Microbus LiteAce	set	5,778.41	5,778.41	5,775.83	5,775.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.30	Supplying, fitting, fixing and installation Ball joint of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.30.01	Mitsubishi Outlander Jeep	set	5,778.41	5,778.41	5,775.83	5,775.83
13.30.02	Microbus LiteAce	set	7,039.52	7,039.52	7,036.94	7,036.94
13.31	Supplying, fitting, fixing and installation Cross bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.31.01	Mitsubishi Outlander Jeep	nos	2,705.08	2,705.08	2,702.50	2,702.50
13.31.02	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.32	Supplying, fitting, fixing and installation Axle bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.32.01	Mitsubishi Outlander Jeep	nos	8,931.19	8,931.19	8,928.60	8,928.60
13.32.02	Microbus LiteAce	nos	2,373.41	2,373.41	2,370.83	2,370.83
13.33	Supplying, fitting, fixing and installation Hubs bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.33.01	Mitsubishi Outlander Jeep	nos	8,931.19	8,931.19	8,928.60	8,928.60
13.33.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.34	Supplying, fitting, fixing and installation Mile meter cable of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.34.01	Mitsubishi Outlander Jeep	nos	6,173.14	6,173.14	6,170.55	6,170.55
13.34.02	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.35	Supplying, fitting, fixing and installation Clutch cable of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.35.01	Mitsubishi Outlander Jeep	nos	5,147.86	5,147.86	5,145.27	5,145.27
13.35.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.36	Supplying, fitting, fixing and installation Accelerator cable of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.36.01	Mitsubishi Outlander Jeep	nos	3,886.74	3,886.74	3,884.16	3,884.16
13.36.02	Microbus LiteAce	nos	1,364.52	1,364.52	1,361.94	1,361.94

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.37	Supplying, fitting, fixing and installation Hubs oil seal of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.37.01	Mitsubishi Outlander Jeep	set	1,364.52	1,364.52	1,361.94	1,361.94
13.37.02	Microbus LiteAce	set	1,616.74	1,616.74	1,614.16	1,614.16
13.38	Supplying, fitting, fixing and installation Axle oil seal of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.38.01	Mitsubishi Outlander Jeep	set	1,364.52	1,364.52	1,361.94	1,361.94
13.38.02	Microbus LiteAce	set	2,625.63	2,625.63	2,623.05	2,623.05
13.39	Supplying, fitting, fixing and installation Kin pin bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.39.01	Mitsubishi Outlander Jeep	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.39.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.40	Supplying, fitting, fixing and installation Top shaft bearing of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.40.01	Mitsubishi Outlander Jeep	nos	1,364.52	1,364.52	1,361.94	1,361.94
13.40.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.41	Supplying, fitting, fixing and installation Gear box oil seal of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.41.01	Mitsubishi Outlander Jeep	set	1,364.52	1,364.52	1,361.94	1,361.94
13.41.02	Microbus LiteAce	set	1,364.52	1,364.52	1,361.94	1,361.94
13.42	Supplying, fitting, fixing and installation Top shaft oil seal of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.42.01	Mitsubishi Outlander Jeep	nos	1,364.52	1,364.52	1,361.94	1,361.94
13.42.02	Microbus LiteAce	nos	860.08	860.08	857.49	857.49
13.43	Supplying, fitting, fixing and installation Gear box mounting of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.43.01	Mitsubishi Outlander Jeep	nos	8,426.74	8,426.74	8,424.16	8,424.16
13.43.02	Microbus LiteAce	nos	5,778.41	5,778.41	5,775.83	5,775.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.44	Supplying, fitting, fixing and installation Door lock of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.44.01	Mitsubishi Outlander Jeep	nos	3,886.74	3,886.74	3,884.16	3,884.16
13.44.02	Microbus Liteace	nos	1,112.30	1,112.30	1,109.71	1,109.71
13.45	Supplying, fitting, fixing and installation Door handle of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.45.01	Mitsubishi Outlander Jeep	nos	5,147.86	5,147.86	5,145.27	5,145.27
13.46	Supplying, fitting, fixing and installation Head light complete of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.46.01	Mitsubishi Outlander Jeep	nos	40,458.97	40,458.97	40,456.38	40,456.38
13.46.02	Microbus LiteAce	nos	5,147.86	5,147.86	5,145.27	5,145.27
13.47	Supplying, fitting, fixing and installation Back light of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.47.01	Mitsubishi Outlander Jeep	nos	37,936.74	37,936.74	37,934.16	37,934.16
13.47.02	Microbus LiteAce	nos	5,147.86	5,147.86	5,145.27	5,145.27
13.48	Supplying, fitting, fixing and installation Wiper motor of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.48.01	Mitsubishi Outlander Jeep	nos	20,281.19	20,281.19	20,278.60	20,278.60
13.48.02	Microbus LiteAce	nos	7,670.08	7,670.08	7,667.49	7,667.49
13.49	Supplying, fitting, fixing and installation Wiper blade of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.49.01	Mitsubishi Outlander Jeep	set	733.97	733.97	731.38	731.38
13.49.02	Microbus LiteAce	set	1,364.52	1,364.52	1,361.94	1,361.94
13.50	Supplying, fitting, fixing and installation Indicating flasher of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.50.01	Mitsubishi Outlander Jeep	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.50.02	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.51	Supplying, fitting, fixing and installation Battery terminal of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.51.01	Mitsubishi Outlander Jeep	set	481.74	481.74	479.16	479.16
13.51.02	Microbus LiteAce	set	418.69	418.69	416.10	416.10
13.52	Supplying, fitting, fixing and installation Head light switch of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.52.01	Mitsubishi Outlander Jeep	nos	16,497.86	16,497.86	16,495.27	16,495.27
13.52.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.53	Supplying, fitting, fixing and installation Wiper switch of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.53.01	Mitsubishi Outlander Jeep	nos	22,803.41	22,803.41	22,800.83	22,800.83
13.53.02	Microbus LiteAce	nos	1,364.52	1,364.52	1,361.94	1,361.94
13.54	Supplying, fitting, fixing and installation Dipper switch of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.54.01	Mitsubishi Outlander Jeep	nos	22,803.41	22,803.41	22,800.83	22,800.83
13.54.02	Microbus LiteAce	nos	1,364.52	1,364.52	1,361.94	1,361.94
13.55	Supplying, fitting, fixing and installation Horn switch of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.55.01	Mitsubishi Outlander Jeep	nos	971.06	971.06	968.47	968.47
13.55.02	Microbus LiteAce	nos	1,364.52	1,364.52	1,361.94	1,361.94
13.56	Supplying, fitting, fixing and installation Dynamo pulley of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.56.01	Mitsubishi Outlander Jeep	nos	3,571.47	3,571.47	3,568.88	3,568.88
13.56.02	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.57	Supplying, fitting, fixing and installation Engine head gasket of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.57.01	Microbus LiteAce	nos	1,995.08	1,995.08	1,992.49	1,992.49
13.58	Supplying, fitting, fixing and installation Wind shield glass rubber channel of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.58.01	Microbus LiteAce	set	4,517.30	4,517.30	4,514.71	4,514.71

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
13.59	Supplying, fitting, fixing and installation Door glass rubber channel of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.59.01	Microbus LiteAce	set	4,517.30	4,517.30	4,514.71	4,514.71
13.60	Supplying, fitting, fixing and installation Engine liner of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.60.01	Microbus LiteAce	set	5,778.41	5,778.41	5,775.83	5,775.83
13.61	Supplying, fitting, fixing and installation Looking glass mirror of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.61.01	Mitsubishi Outlander Jeep	nos	34,153.41	34,153.41	34,150.83	34,150.83
13.61.02	Microbus LiteAce	nos	2,625.63	2,625.63	2,623.05	2,623.05
13.62	Supplying, fitting, fixing and installation Injection nozzle of Specified Vehicle including cost of all necessary accessories, wages of labour, technicians and including charges etc. Including testing commissioning all complete, approved and accepted by the Engineer-in-charge.					
13.62.01	Mitsubishi Outlander Jeep	set	40,458.97	40,458.97	40,456.38	40,456.38

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 14 : Environmental and Occupational Safety Works						
Section-01: Work Safety Facility						
14.01.01	First Aid Box: Supplying, equipping and maintaining adequate first-aid box throughout the working period at worksite and site office, and erect conspicuous notice boards directing where these are situated and providing all requisite emergency medical first aid kits, including complying with the government medical or labour requirements at all times, and provide, equip and maintain necessary dressing kits throughout the working period for attending minor injuries, etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	LS				
14.01.02	Drinking Water Facilities: Providing continuous adequate drinking water supply at worksite and site office as well by installing necessary tube-well/s where applicable or any other means depending on local situation, also providing essential arrangement for storing drinking water by supplying portable best quality water tank equivalent to Gazi/Padma of adequate capacity depending on the number of users, including supplying 1 (one) no. best quality water filter of minimum capacity 30 liters with necessary kits, etc. all complete as per satisfaction and direction of the Engineer-in-charge, all relevant goods and equipment under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	LS				
14.01.03	Temporary Toilet Facilities: Providing at least two nos. portable toilets or constructing temporary semi pucca toilets with two pit latrine one for female worker and another for male worker at worksite and workers accommodation site in a safe location, so that no adverse impact will generate on the surrounding environment, including providing requisite arrangement for water supplying etc. All complete as per drawing, specification, direction and satisfaction of the Engineer-in-charge. All relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	LS				
Section-02: Site Cleaning, Removal and Disposal						
14.02.01	Site Cleaning, Removal and Disposal Activity: Cleaning and maintaining at all times, keeping the construction area, storage areas used, free from accumulations of waste materials or rubbish, with necessary arrangement for collecting at a central disposal area, on a daily basis and disposing in a manner approved and satisfaction by the Engineer, especially waste water and sewage from office, residential and mobile camps shall be piped to soak pits or other disposal areas, all used fuels, oils, other plant or vehicle fluids, old tyres, tubes, other solid waste from household, office, workshop, construction materials, etc. to be kept at safe places and any spillages shall be cleaned up by either burning in place or collecting the contaminated soils and burning them at the central disposal area, including removing all waste, debris, rubbish, unused materials, concrete forms and other like material, tools, equipment, machinery and surplus/ unwanted materials buried or cleaned up in a manner acceptable to the Engineer after completion of work etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully	LS				
14.02.02	Hazards and Hazardous Materials: Handling Storing and store hazardous materials in accordance with the following requirements: Hazardous materials shall be stored above flood level and at least 20 m from any watercourse; Hazardous liquid substances (e.g. petrol, diesel, oils) shall be stored on top of sealed plastic sheets in a secure, flat enclosed area. Bund walls shall be at least 25 cm high.	LS				

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
14.02.03	Waste Disposal Facilities: Providing, installing and maintaining at least 2 (two) nos. waste collection bins one for organic waste and other for inorganic waste of minimum capacity of 30liters with hinge supported 450mm dia cover plate for opening, made of durable plastic material at worksite, both bins will be kept in a safe and easily accessible place, so that will easy to use and no adverse impact will generate on the surrounding environment, including continuing the full functioning of waste disposal(buried/incineration) in accordance with the full satisfaction of the project manager throughout the contract period, all complete as per drawing, specification and direction of the Engineer-in-charge. Entire relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	LS				
Section-03: Pollution Control						
14.03.01	Control of Water Pollution: Providing necessary arrangement to prevent entrance, or accidental spillage, solid matter, contaminants, debris, garbage, cement, concrete, sanitary waste, oil, other petroleum products, pollutants and wastewaters from aggregate processing, concrete batching, or other construction operations into streams, flowing or dry watercourses, lakes, and underground water sources for ensuring water quality, including monitoring pH value, dissolved oxygen (DO), biochemical oxygen demand (BOD), chemical oxygen demand (COD), total dissolved solids (TDS), etc, including concerned tests to be carried out three times (before, during and end of physical work) from any laboratories approved by PM, all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	LS				
14.03.02	Control of Air Pollution (Dust Suppression): Maintaining, carrying out proper and efficient measures wherever and as often as necessary to reduce dust nuisance, and to prevent dust which has originated from contractor's activities/ operations at the worksite and site office, including sprinkling water on aggregates/unpaved roads at least three times a day or more depending on the atmospheric conditions, including keeping necessary covering/protection on stockpiled fine aggregates to reduce dust nuisance during natural air blowing, all complete like emission of dust into the atmosphere shall be strictly controlled during manufacture, handling, storage of concrete, road aggregates, and to be used such methods and equipment as are necessary for collection and disposal, or prevention, of dust during these operations means of eliminating atmospheric discharges of dust as per requirement and carrying out air quality test as PM10, PM25, SPM, NOx, Sox as per instruction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	LS				
14.03.03	Control of Soil Pollution: Providing appropriate controlling measures to prevent entrance, or accidental spillage, solid matter, contaminants, debris, garbage, cement, concrete, sanitary waste, oil, other petroleum products and wastes into soil to avoid soil pollution at worksite and to evade emission of high concentration of sediments into wetlands, swampy areas and other particular sensitive areas, all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract	LS				
Section-04: Work Site Maintenance and Management						
14.04.01	Rehabilitation of ancillary sites Facilities: Rehabilitation of ancillary sites Facilities including stockpile sites, brick crushing sites, borrow areas, work force camps site office, etc. to the entire satisfaction of the Engineer.	LS				

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
14.04.02	Traffic Management: Maintaining traffic management at worksite from time of commencement of contractor's activities to time of completion activities, including ensuring that the road is safe for users, providing a safe working area for those involved in work on trafficked network and minimizing any disruption to smooth flow of traffic (this includes providing necessary barricades, warning signs/lights, guide signs, flagmen, maintaining diversion roads by cutting, filling, constructing, etc. or by any other means) in accordance with the full satisfaction of the Engineering-in-charge, unless specified otherwise, including keeping provision for existing traffic and pedestrian movements in such a way as to assure that a single lane at least 3.0m wide is available for public traffic at all times (including access to properties and local roads) affected by the contractor's activities shall be maintained at all times (day & night), including removal of all temporary constructions on completion of the activities, etc. all complete as per requirement and instruction of Engineer-in-charge. All relevant accessories and arrangements under this item shall be property of the contractor and payment will be made after 100% completion of the contract successfully.	LS				
14.04.03	Construction Machinery and Vehicles:Giving trial run of the trial machinery and vehicles for ascertaining that their emissions and noise levels conform to the standards stipulated by the GoB (ECR 1997). Contractor shall regularly maintain construction machinery and vehicles so that emissions, vibrations and noise levels conform to GoB's relevant standards. LGED staff shall ensure that Contractor adheres to these requirements throughout the construction period.	LS				
Section-05: Personal Protection Safety						
14.05.01	Personal Protection Equipment for Workers: Providing and maintaining appropriate (safe design, fit and comfort) personal protection equipment (PPE) to ensure the highest possible protection for employees in establishing and maintaining a safe and healthful working environment at workplace, including demonstrating, providing training on proper understanding and development of skill in the use of PPE, including supplying (i) best quality safety jacket for construction workers made of 100% polyester waterproof fabric, fluorescent yellow/orange/green/red/blue or pantone color, (ii) suitable hand protection gloves for construction work of Flexible/ durable/ excellent puncture resistance working gloves with PVC palm and T/C drill back, pasted cuff, palm liner and fit properly and be reasonably comfortable to wear, (iii) appropriate foot protection shoes having impact-resistant toes and heat-resistant soles that will protect the feet against hot working surfaces, (iv) best quality safety helmets of ABS shell, tough, lightweight, durable which will be able to resist penetration by objects, absorb the shock of a blow and water-resistant and slow burning with available four-six-point adjustable suspension for shock-absorbing, slotted sides to accommodate accessories, such as face shields, ear muffs (v) suitable eye protection goggles to protect against specific workplace hazards, fit properly and be reasonably comfortable to wear, provide unrestricted vision and movement, including instructing workers to wear strictly during working time and reviewing periodically, updating, evaluating the effectiveness of PPE and maintaining, replacing worn or damaged PPE etc. all complete as per requirement and full satisfaction of Engineer-in-charge. Payment will be made after 100% completion of the contract successfully.	LS				

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
Chapter - 15 : Fire Detection & Protection System						
15.01	FIRE EXTINGUISHER					
15.01.1	DRY CHEMICAL POWDER TYPE Supply & fixing of the following capacities multi purpose ABC dry chemical powder stored pressure type with manometer system fire extinguisher suitable for repeated use complete with wall bracket, Nitrogen (N2) cartridge, easy refilling system etc. as per sample accepted & approved by the Engineer in Charge.Mono Ammonium Phosphate (minimum 40%) based ABC dry chemical agent & has a moisture-proof, anti-caking properties. Working pressure : 12 BAR minimum & Test pressure : 25 BAR minimum. Proper fire rating (as per NFPA 10/BS/EN) according to the capacity of the extinguisher. Manufacturer's certificate shall have to be submitted if needed. Also sample of the dry chemical powder will be tested by the proper authority in Bangladesh if needed.					
15.01.1.1	1 Kg. capacity. (PWD E/M 14.1.1.1)	each	1,173.72	1,173.72	1,170.64	1,170.64
15.01.1.2	2 Kg. capacity. (PWD E/M 14.1.1.2)	each	1,489.25	1,489.25	1,486.17	1,486.17
15.01.1.3	3 Kg. capacity. (PWD E/M 14.1.1.3)	each	1,930.17	1,930.17	1,928.11	1,928.11
15.01.1.4	5 Kg. capacity. (PWD E/M 14.1.1.4)	each	3,569.47	3,569.47	3,567.42	3,567.42
15.01.1.5	6 Kg. capacity. (PWD E/M 14.1.1.5)	each	4,136.81	4,136.81	4,134.75	4,134.75
15.01.2	CARBON-DI-OXIDE TYPE Supply & fixing of the following capacities Carbon-di-Oxide stored pressure type with manometer system fire extinguisher suitable for repeated use complete with wall bracket, CO2 cartridge, easy refilling system etc. as per sample accepted & approved by the Engineer in Charge. Working pressure : 12 BAR minimum & Test pressure : 25 BAR minimum. Proper fire rating (as per NFPA 10 / BS / EN) according to the capacity of the extinguisher. Manufacturer's certificate shall have to be submitted if needed. Also sample of the Carbon-di-Oxide will be tested by the proper authority in Bangladesh if needed.					
15.01.2.1	3 Kg. capacity. (PWD E/M 14.1.2.1)	each	3,191.25	3,191.25	3,189.19	3,189.19
15.01.2.2	5 Kg. capacity. (PWD E/M 14.1.2.2)	each	5,083.39	5,083.39	5,080.31	5,080.31
15.01.3	FOAM TYPE Supply & fixing the following capacity foam type with manometer system fire extinguisher suitable for repeated use complete with wall bracket, easy refilling system etc. as per sample accepted & approved by the Engineer in Charge. Working pressure: 12 BAR minimum & Test pressure : 25 BAR minimum. Proper fire rating (as per NFPA 10 / BS / EN) according to the capacity of the extinguisher. Manufacturer's certificate shall have to be submitted if needed. Also sample of the foam type extinguisher will be tested by the proper authority in Bangladesh if needed.					
15.01.3.1	9 Liter capacity. (PWD E/M 14.1.3.1)	each	3,860.33	3,859.31	3,855.19	3,855.19
15.01.4	ACCESSORIES OF FIRE EXTINGUISHERS Providing & fixing of the following parts of fire extinguisher as per sample accepted/approved by the Engineer in Charge.					
15.01.4.1	Trigger. (PWD E/M 14.1.4.1)	each	189.11	189.11	189.11	189.11
15.01.4.2	Hose pipe (PWD E/M 14.1.4.2)	each	353.56	353.56	353.56	353.56
15.01.4.3	Nipple with nozzle (PWD E/M 14.1.4.3)	each	138.75	138.75	138.75	138.75
15.01.4.4	Cartridge up to 6 Kg. (PWD E/M 14.1.4.4)	each	1,134.67	1,134.67	1,134.67	1,134.67
15.01.4.5	ABC powder. (PWD E/M 14.1.4.5)	kg	201.44	201.44	201.44	201.44
15.01.4.6	Carbon-di-Oxide recharge (PWD E/M 14.1.4.6)	kg	233.31	233.31	233.31	233.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.01.4.7	Foam (PWD E/M 14.1.4.7)	liter	220.97	220.97	220.97	220.97
15.01.5	FIRE BALL Supply of 1.25 Kg Fireball with bracket filled with Non-Toxic Mono Ammonium Phosphate of minimum 40 grade (fire class C). (PWD E/M 14.1.5)	each	1,892.14	1,892.14	1,892.14	1,892.14
15.01.6	FIRE BLANKET Supply and fixing of fire proof emergency Fire Blanket made of fire glass cloth . Dimension of the blanket should be minimum 6' × 6' . Working temperature is minimum 550^{o} C. (PWD E/M 14.1.6)	each	1,450.19	1,450.19	1,450.19	1,450.19

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.02	FIRE WATER PUMP (Engine Driven) With Controller Supply , installation , testing & commissioning of UL listed and FM approv diesel engine driven fire pump complete with all related & essential accessories including control panel, listed casing relief valve and vacuum & pressure gauge at the suction and discharge side of pump respectively. The manufacturing company must have manufacturing experience of minimum 30 years . The pump shall be designed and installed in accordance with NFPA 20 standard. Each unit shall be UL listed and FM approved. It should be compatible with BMS supported UL listed and FM approved control panel. Type: Pumps shall be of the non-overloading, centrifugal, horizontally split / End Suction type allowing discharge of the liquid without disturbing the pipe connections and operating at not over 3000 rpm. Pumps shall be selected for a total efficiency of not less than 65%. Pump performance curves shall be submitted for approval together with the pump technical data. Pump performance Curves shall be conformed to NFPA 20. DIESEL ENGINE: The diesel engine shall be UL listed and FM approved suitable for rated pump capacity. The engine shall rated at standard conditions for 500 ft above sea level at 29.4°C by the testing laboratory. The engine shall be of a reputed manufacturer from which spare parts can be obtained locally. The engine shall be provided with an adjustable governor capable of regulating engine speed with a range of 10% between shut-off and maximum load conditions of the pump. The governor shall be set to maintain the rated pump speed at maximum pump load. Engines shall be provided with an over speed shutdown device. BATTERY & CHARGER: The engine shall be provided with two maintenance free storage battery units, each having sufficient capacity, at 5°C (41°F) to maintain cranking speed recommended by the engine manufacturer through a 6 min cycle. Two means for recharging shall be provided. One shall be the generator furnished with the engine.The other shall be an automatically controlled charger taking power from the building power supply. FUEL TANK: The fuel tank shall be as per manufacturer's recommendation with rigid frame. Fuel tank shall have capacity of at least equal to 1 gallon per horsepower plus 5% volume for expansion. Fuel tank shall be equipped with fuel supply line, return line, fill, drain, overflow, air vent and sight glass. COOLING SYSTEM & ENGINE EXHAUST PIPE : The engine shall be provided with close circuit cooling water circulation system. The exhaust pipe shall be galvanized steel sized in accordance with the manufacturer's recommendations. The exhaust pipe shall be as short as possible. CONTROLLER : The controller shall be UL listed & FM approved and BMS supported , completely assembled and wired from the factory. The controller shall be 12 volt / 24 volt., and shall be complete with all necessary components and accessories.The controller shall be operable automatically on sensing low pressure in the system and shall be provided with a pressure-actuated switch having independent high & low calibrated adjustments. The switch shall be responsive to water pressure in the fire protection system. The pressure-sensing element of the switch shall be capable of momentary surge pressure of 300 psi (minm) without loosing its accuracy, suitable provision shall be made for relieving pressure to the pressure actuated switch to allow testing of the operation of the controller and the pumping unit.					
15.02.01	Fire Pump End Suction (500 GPM, 9 BAR) (PWD E/M 14.2.1)	each	3,359,658.58	3,359,658.58	3,359,658.58	3,359,658.58
15.02.02	Fire Pump End Suction (500 GPM, 10 BAR) (PWD E/M 14.2.2)	each	3,676,329.25	3,676,329.25	3,676,329.25	3,676,329.25

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.02.03	Fire Pump End Suction (500 GPM, 12 BAR) (PWD E/M 14.2.3)	each	4,125,797.03	4,125,797.03	4,125,797.03	4,125,797.03
15.02.04	Fire Pump End Suction (500 GPM, 14 BAR) (PWD E/M 14.2.4)	each	4,166,658.39	4,166,658.39	4,166,658.39	4,166,658.39
15.02.05	Fire Pump End Suction (750 GPM, 9 BAR) (PWD E/M 14.2.5)	each	4,105,366.86	4,105,366.86	4,105,366.86	4,105,366.86
15.02.06	Fire Pump End Suction (750 GPM, 10 BAR) (PWD E/M 14.2.6)	each	4,156,442.28	4,156,442.28	4,156,442.28	4,156,442.28
15.02.07	Fire Pump End Suction (750 GPM, 12 BAR) (PWD E/M 14.2.7)	each	4,217,733.81	4,217,733.81	4,217,733.81	4,217,733.81
15.02.08	Fire Pump End Suction (750 GPM, 14 BAR) (PWD E/M 14.2.8)	each	4,376,069.14	4,376,069.14	4,376,069.14	4,376,069.14
15.02.09	Fire Pump Split Case (1000 GPM, 9 BAR) (PWD E/M 14.2.9)	each	4,242,454.94	4,242,454.94	4,242,454.94	4,242,454.94
15.02.10	Fire Pump Split Case (1000 GPM, 10 BAR) (PWD E/M 14.2.10)	each	4,769,353.44	4,769,353.44	4,769,353.44	4,769,353.44
15.02.11	Fire Pump Split Case (1000 GPM, 12 BAR) (PWD E/M 14.2.11)	each	4,799,998.69	4,799,998.69	4,799,998.69	4,799,998.69
15.02.12	Fire Pump Split Case (1000 GPM, 14 BAR) (PWD E/M 14.2.12)	each	4,937,336.53	4,937,336.53	4,937,336.53	4,937,336.53
15.02.13	Fire Pump Split Case (1250 GPM, 9 BAR) (PWD E/M 14.2.13)	each	4,769,353.44	4,769,353.44	4,769,353.44	4,769,353.44
15.02.14	Fire Pump Split Case (1250 GPM, 10 BAR) (PWD E/M 14.2.14)	each	4,820,428.86	4,820,428.86	4,820,428.86	4,820,428.86
15.02.15	Fire Pump Split Case (1250 GPM, 12 BAR) (PWD E/M 14.2.15)	each	5,397,586.72	5,397,586.72	5,397,586.72	5,397,586.72
15.02.16	Fire Pump Split Case (1250 GPM, 14 BAR) (PWD E/M 14.2.16)	each	5,668,289.00	5,668,289.00	5,668,289.00	5,668,289.00

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.03	FIRE WATER PUMP (Motor driven) with controller Supply, installation, testing & commissioning of UL listed and FM approved electrically driven centrifugal type end suction / split case Fire Water Pump manufactured according to globally accepted international standard, shall be complete with skid mounted, coupled with motor, safety cover etc. The manufacturing company must have manufacturing experience of minimum 30 years. Motor shall be 420V / 3 phase / 50 HZ / 2900 rpm / Class F insulation / Enclosure IP55. Motor capacity shall be as per NFPA 20 and performance curve (from manufacturer) shall be provided to verify pump performance.Pumps shall be of the non-overloading allowing discharge of the liquid without disturbing the pipe connections and operating at not over 3000 rpm. Pumps shall be selected for a total efficiency of not less than 65%. Electric Motor: The electric motor shall be UL listed and FM approved suitable for rated pump capacity. Motor shall be 380V-420V / 3 phase / 50 HZ / 2900 rpm / Class F insulation / Enclosure IP55. Motor capacity shall be as per NFPA 20 and performance curve (from manufacturer) shall be provided to verify pump performance. The motor shall rated at standard conditions for 500 ft above sea level at 29.4°C by the testing laboratory. The motor shall be of a reputed manufacturer from which spare parts can be obtained locally. The motor shall be provided with an constant motor speed with a range of 10% between shut-off and maximum load conditions of the pump. Starting current of motor shall not exceed 2.5 times of rated current. Controller: The controller shall be UL listed and FM approved, BMS supported complete with MCCB / MCB / magnetic contactor / on-off push switch / indication lamp for phase indication, run, trip mode / ampere meter / volt meter / overload selector switch / phase failure protection device / dry operation protection device / volt guard / connector block / bus-bar / CT of rated capacity / ventilation fan / buzzer / cable lugs / and all other accessories. The panel shall be well dressed in side for safety purpose and for looking good.The panel shall be suitable for 3-phase 400 ± 5% volt 50Hz power supply. The panel shall be with auto/manual mode to operate the pumps controlled by pressure sensors. For fire pump the panel shall have option to start the pump automatically and stop shall be manual.Enclosureof the panel shall be made with 16 SWG sheet steel and shall be painted with powder coating of red color approved as Fire code. Door of the panel shall be swing type with locking arrangement. Knob of main MCCB shall be extended in front screen. The panel shall be wall mounted type with fixing arrangement properly.The panel shall be manufactured in accordance with standard code of practice as NFPA/ NEMA / IEC / VDE / BS standards comprising of required capacity.					
15.03.01	Fire Pump End Suction (500 GPM, 9 BAR) (PWD E/M 14.3.1)	each	2,099,787.00	2,099,787.00	2,099,787.00	2,099,787.00
15.03.02	Fire Pump End Suction (500 GPM, 10 BAR) (PWD E/M 14.3.2)	each	2,440,292.86	2,440,292.86	2,440,292.86	2,440,292.86
15.03.03	Fire Pump End Suction (500 GPM, 12 BAR) (PWD E/M 14.3.3)	each	2,667,297.11	2,667,297.11	2,667,297.11	2,667,297.11
15.03.04	Fire Pump End Suction (500 GPM, 14 BAR) (PWD E/M 14.3.4)	each	2,888,625.97	2,888,625.97	2,888,625.97	2,888,625.97
15.03.05	Fire Pump End Suction (750 GPM, 9 BAR) (PWD E/M 14.3.5)	each	2,213,288.61	2,213,288.61	2,213,288.61	2,213,288.61
15.03.06	Fire Pump End Suction (750 GPM, 10 BAR) (PWD E/M 14.3.6)	each	2,553,794.47	2,553,794.47	2,553,794.47	2,553,794.47
15.03.07	Fire Pump End Suction (750 GPM, 12 BAR) (PWD E/M 14.3.7)	each	2,769,448.97	2,769,448.97	2,769,448.97	2,769,448.97
15.03.08	Fire Pump End Suction (750 GPM, 14 BAR) (PWD E/M 14.3.8)	each	3,121,304.58	3,121,304.58	3,121,304.58	3,121,304.58
15.03.09	Fire Pump Split Case (1000 GPM, 9 BAR) (PWD E/M 14.3.9)	each	2,667,297.11	2,667,297.11	2,667,297.11	2,667,297.11
15.03.10	Fire Pump Split Case (1000 GPM, 10 BAR) (PWD E/M 14.3.10)	each	2,894,300.33	2,894,300.33	2,894,300.33	2,894,300.33
15.03.11	Fire Pump Split Case (1000 GPM, 12 BAR) (PWD E/M 14.3.11)	each	3,109,954.83	3,109,954.83	3,109,954.83	3,109,954.83

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.03.12	Fire Pump Split Case (1000 GPM, 14 BAR) (PWD E/M 14.3.12)	each	3,348,308.83	3,348,308.83	3,348,308.83	3,348,308.83
15.03.13	Fire Pump Split Case (1250 GPM, 9 BAR) (PWD E/M 14.3.13)	each	2,888,625.97	2,888,625.97	2,888,625.97	2,888,625.97
15.03.14	Fire Pump Split Case (1250 GPM, 10 BAR) (PWD E/M 14.3.14)	each	3,121,304.58	3,121,304.58	3,121,304.58	3,121,304.58
15.03.15	Fire Pump Split Case (1250 GPM, 12 BAR) (PWD E/M 14.3.15)	each	3,563,962.31	3,563,962.31	3,563,962.31	3,563,962.31
15.03.16	Fire Pump Split Case (1250 GPM, 14 BAR) (PWD E/M 14.3.16)	each	3,915,818.94	3,915,818.94	3,915,818.94	3,915,818.94
15.04	JOCKEY PUMP with controller (Pressure maintenance pump) JOCKEY PUMP Supply, installation of multistage jockey pump manufactured in accordance with globally accepted international standard or fire hydrant system to keep a certain pressure in water distribution system. The manufacturing company must have manufacturing experience of minimum 30 years. Pump shall be completed with motor suitable to meet performance curve of the pump. The motor shall be 420V / 3 phase/ 50 HZ / 2900 rpm. Controller: The controller shall be UL listed / FM approved, BMS supported complete with MCCB / MCB / magnetic contactor / on-off push switch / indication lamp for phase indication, run, trip mode / ampere meter / volt meter / overload selector switch / phase failure protection device / dry operation protection device / volt guard / connector block / bus-bar / CT of rated capacity / ventilation fan / buzzer / cable lugs / and all other accessories. The panel shall be well dressed in side for safety purpose and for looking good.The panel shall be suitable for 3-phase 400 ± 5% volt 50Hz power supply. The panel shall with auto/manual mode to operate the pumps controlled by pressure sensors. . For jockey pump the panel shall be suitable to start-stop the pump automatically controlled by pressure sensor.Enclosure of the panel shall be made with 16 SWG sheet steel and shall be painted with powder coating of red color approved as Fire code. Door of the panel shall be swing type with locking arrangement. Knob of main MCCB shall be extended in front screen. The panel shall be wall mounted type with fixing arrangement properly.The panel shall be manufactured in accordance with standard code of practice as NFPA/ NEMA / IEC / VDE / BS standards comprising of required capacity. (NB: pressure of jockey pump will be equal to the pressure of fire pump)					
15.04.01	Jockey Pump (20 GPM, 9 Bar) (for 500 GPM Fire pump) (PWD E/M 14.4.1)	each	214,392.39	214,392.39	214,392.39	214,392.39
15.04.02	Jockey Pump (20 GPM, 10 Bar) (for 500 GPM Fire pump) (PWD E/M 14.4.2)	each	220,697.81	220,697.81	220,697.81	220,697.81
15.04.03	Jockey Pump (20 GPM, 12 Bar) (for 500 GPM Fire pump) (PWD E/M 14.4.3)	each	227,004.25	227,004.25	227,004.25	227,004.25
15.04.04	Jockey Pump (20 GPM, 14 Bar) (for 500 GPM Fire pump) (PWD E/M 14.4.4)	each	296,365.89	296,365.89	296,365.89	296,365.89
15.04.05	Jockey Pump (30 GPM, 9 Bar) (for 750 GPM Fire pump) (PWD E/M 14.4.5)	each	227,004.25	227,004.25	227,004.25	227,004.25
15.04.06	Jockey Pump (30 GPM, 10 Bar) (for 750 GPM Fire pump) (PWD E/M 14.4.6)	each	239,615.08	239,615.08	239,615.08	239,615.08
15.04.07	Jockey Pump (30 GPM, 12 Bar) (for 750 GPM Fire pump) (PWD E/M 14.4.7)	each	252,226.94	252,226.94	252,226.94	252,226.94
15.04.08	Jockey Pump (30 GPM, 14 Bar) (for 750 GPM Fire pump) (PWD E/M 14.4.8)	each	315,283.17	315,283.17	315,283.17	315,283.17
15.04.09	Jockey Pump (40 GPM, 9 Bar) (for 1000 GPM Fire pump) (PWD E/M 14.4.9)	each	264,837.78	264,837.78	264,837.78	264,837.78

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.04.10	Jockey Pump (40 GPM, 10 Bar) (for 1000 GPM Fire pump) (PWD E/M 14.4.10)	each	290,060.47	290,060.47	290,060.47	290,060.47
15.04.11	Jockey Pump (40 GPM, 12 Bar) (for 1000 GPM Fire pump) (PWD E/M 14.4.11)	each	327,895.03	327,895.03	327,895.03	327,895.03
15.04.12	Jockey Pump (40 GPM, 14 Bar) (for 1000 GPM Fire pump) (PWD E/M 14.4.12)	each	365,728.56	365,728.56	365,728.56	365,728.56
15.04.13	Jockey Pump (50 GPM, 9 Bar)(for 1250 GPM Fire pump) (PWD E/M 14.4.13)	each	277,449.64	277,449.64	277,449.64	277,449.64
15.04.14	Jockey Pump (50 GPM, 10 Bar)(for 1250 GPM Fire pump) (PWD E/M 14.4.14)	each	302,672.33	302,672.33	302,672.33	302,672.33
15.04.15	Jockey Pump (50 GPM, 12 Bar)(for 1250 GPM Fire pump) (PWD E/M 14.4.15)	each	334,200.44	334,200.44	334,200.44	334,200.44
15.04.16	Jockey Pump (50 GPM, 14 Bar)(for 1250 GPM Fire pump) (PWD E/M 14.4.16)	each	353,117.72	353,117.72	353,117.72	353,117.72
15.05	FIRE BRIGADE CONNECTION : 2 – WAY Supply and installation of LPCB/ Kitemark certified 2-way fire brigade connection complete in all respect with all accessories. The unit shall have two Inlet connections of 2½" (63mm) male instantaneous with non-return valve and having 4" dia (100mm) flanged type outlet directly connected with stand pipe. It will have also one 25mm dia drain valve for drainage of water, rubber blank cap and chain for protection. Outlet 100mm dia shall be as per BS/EN or equivalent and shall be suitable to withstand pressure of 20kg/cm². It shall be suitable for using with Fire service & civil defence department of Bangladesh. (PWD E/M 14.5)	each	37,833.53	37,833.53	37,833.53	37,833.53
15.06	FIRE BRIGADE CONNECTION : 4 – WAY Supply and installation of LPCB/ Kitemark certified 4 - way fire brigade connection complete in all respect with all accessories. The unit shall have four Inlet connections of 2½" (63mm) male instantaneous with non-return valve and having 6" dia (150mm) flanged type outlet directly connected with stand pipe. It will have also one 25mm dia drain valve for drainage of water, rubber blank cap and chain for protection. Outlet 150mm dia shall be as per BS/EN. Or equivalent and shall be suitable to withstand pressure of 20kg/cm². It shall be suitable for using with Fire service & civil defence department of Bangladesh. (PWD E/M 14.6)	each	63,056.22	63,056.22	63,056.22	63,056.22
15.07	FIRE HYDRANT UNIT (1½" dia) : Each 1½" dia fire hydrant unit shall be complete with the following components and accessories.					
15.07.01	HOSE ANGLE VALVE (LANDING VALVE) : 1½" dia Supply and installation of hose angle valve of 1½" (40mm) shall be made with brass . The angle valve shall be UL Listed / FM approved certified and working pressure shall be minimum 300 psi. Inlet shall be threaded end type. (PWD E/M 14.7.1)	each	14,881.19	14,881.19	14,881.19	14,881.19
15.07.02	FIRE HOSE : 1½" dia Supply & installation of Single Jacket fire hose of 38mm dia 30 meter long with hose rack frame & nipple suitable to install inside the hydrant cabinet. The hose shall conform to NFPA 1961 . The hose shall be UL Listed / FM approved. Working pressure & burst test pressure shall be not less that 200 psi & 600 psi respectively, shall be made with special quality EPDM rubber as internal lining, suitable to withstand heat and polluted water, heat and abrasion resistance. Jacketting shall be made up of 100% polyester for extra strength. Hose shall be 30meter long in a single length and shall be with aluminium alloy body instantaneous male coupling in one end other end with instantaneous female coupling. Color of the hose pipe shall be white. (PWD E/M 14.7.2)	each	17,025.14	17,025.14	17,025.14	17,025.14

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.07.03	Jet / spray nozzle: 1½" dia Supply & installation of UL listed / FM approved Jet/ spray nozzle having 40mm dia with male instantaneous coupling or shall be connected to the male/ female instantaneous coupling of 38mm hose pipe . The nozzle shall be operable in three modes: jet - spray - shut off. The nozzle shall be light weight and easy operable. Construction of the nozzle shall be of brass & Working pressure shall be not less than 100 psi.Test pressure shall be minimum 230 psi(16 bar) . Flow Capacity of nozzle shall not be less than 100 GPM @ 100 psi. Nozzle shall be installed inside the cabinet. (PWD E/M 14.7.3)	each	7,944.72	7,944.72	7,944.72	7,944.72
15.08	FIRE HYDRANT UNIT (2½" dia): Each 2½" dia fire hydrant unit shall be complete with the following components and accessories.					
15.08.1	HOSE ANGLE VALVE (landing valve) : 2½" dia Supply and installation of Hose angle valve of 2½" (63mm) shall be made with brass & shall conform to NFPA 1961/BS. The angle valve shall be UL Listed / FM approved or LPCB/Kitemark certified and working pressure shall be 300 psi. Inlet shall be threaded end type/ flange type. Inlet shall be installed inside the hydrant cabinet. Coupling shall be suitable for using with Fire service & civil defence department of Bangladesh. (PWD E/M 14.8.1)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.08.2	FIRE HOSE : 2½" dia Supply of fire hose of 2½" (63mm) dia 30 meter long with/ without hose rack frame & nipple suitable to install inside the hydrant cabinet. The hose shall conform to NFPA 1961/BS. The hose shall be UL listed / FM approved or LPCB/Kitemark certified. Working pressure & burst test pressure shall be not less that 200 psi & 600 psi respectively, shall be made with special quality EPDM rubber as internal lining, suitable to withstand heat and polluted water, heat and abrasion resistance. Jacketting shall be made up of 100% polyester for extra strength.Hose shall be 30 meter long in a single length and shall be with aluminium alloy body instantaneous male coupling in one end and other end with instantaneous female coupling. Color of the hose pipe shall be white/red. Coupling shall confirm to BS336 & comply with Fire service & civil defence department of Bangladesh. (PWD E/M 14.8.2)	each	23,961.61	23,961.61	23,961.61	23,961.61
15.08.3	JET / SPRAY NOZZLE : 2½" dia Supply & installation of UL listed / FM approved or LPCB/ Kitemark certified Jet/ spray nozzle having 65mm dia with male instantaneous coupling or shall be connected to the female instantaneous coupling of 65mm hose pipe . The nozzle shall be operable in three modes: jet - spray - shut off. The nozzle shall be light weight and easy operable. Construction of the nozzle shall be of brass & Working pressure shall be not less than 100 psi.Test pressure shall be minimum 230 psi(16 bar) Flow Capacity of nozzle shall not be less than 250 GPM @ 100 psi. Nozzle shall be installed inside the cabinet. (PWD E/M 14.8.3)	each	12,107.22	12,107.22	12,107.22	12,107.22
15.09	PILLAR HYDRANTPILLAR HYDRANT : DOUBLE HEAD Supply and installation of cast Iron body double headed pillar hydrant complete with 2 (two) nos. cast brass made controllable outlet of 65 mm dia with female instantaneous outlet, Inlet shall be 100 mm dia flanged end. It should be LPCB/ Kitemark certified. The hydrant shall be suitable to withstand test pressure of 300 psi (minimum). Color of the unit shall be red / approved by the manufacturer or as per code. Pillar hydrant Shall be BS standard& comply with Fire service & civil defense department of Bangladesh. (PWD E/M 14.9)	each	17,656.19	17,656.19	17,656.19	17,656.19
15.10	STEEL CABINETFabrication, supply & installation of hydrant cabinet of suitable size (as per site measurement and requirement / recommended by the Engineering to accommodate landing valve, hose, nozzle and coupling. The cabinet shall be with swing type door with or without breakable glass. The cabinet shall be made with 18 SWG sheet steel, powder coated of red color. Country of origin: Locally fabricated.					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.10.1	Class - I cabinet (for 2.5" hose rack assembly) (PWD E/M 14.10.1)	each	15,134.03	15,134.03	15,134.03	15,134.03
15.10.2	Class - II cabinet (for 1.5" hose rack assembly) (PWD E/M 14.10.2)	each	15,134.03	15,134.03	15,134.03	15,134.03
15.10.3	Class - III cabinet (for 1.5" hose rack assembly & 2.5 hose angle valve/ landing valve) (PWD E/M 14.10.3)	each	16,395.11	16,395.11	16,395.11	16,395.11
15.10.4	Outdoor hydrant box for pillar hydrant (PWD E/M 14.10.4)	each	15,134.03	15,134.03	15,134.03	15,134.03
15.11	BLACK STEEL PIPE , 40 SCHEDULE: Supply and installation of ERW / seamless schedule 40 black steel pipe of API 5L/ASTM A53 standard . The pipe work shall be included with welded type tee, elbow, reducer etc. and also hangers / supports etc completed. Pipe work (over ground) shall be painted with red oxide primer. Underground pipes should be laid after wrapping with approved PVC tape. Pipe wall thickness shall be as per mentioned diameters.					
15.11.01	250 mm (10 inch) dia,wall thickness: 8.2mm (PWD E/M 14.11.1)	m	12,822.98	12,822.98	12,822.98	12,822.98
15.11.02	200 mm (8 inch) dia, wall thickness: 8.2mm (PWD E/M 14.11.2)	m	11,147.72	11,147.72	11,147.72	11,147.72
15.11.03	150 mm (6 inch) dia, wall thickness: 7.1mm (PWD E/M 14.11.3)	m	9,927.47	9,927.47	9,927.47	9,927.47
15.11.04	100 mm (4 inch) dia, wall thickness: 6.0mm (PWD E/M 14.11.4)	m	7,941.98	7,941.98	7,941.98	7,941.98
15.11.05	80mm (3 inch) dia, wall thickness: 5.5mm (PWD E/M 14.11.5)	m	5,791.02	5,791.02	5,791.02	5,791.02
15.11.06	65 mm (2½ inch) dia, wall thickness: 5.2mm (PWD E/M 14.11.6)	m	3,929.63	3,929.63	3,929.63	3,929.63
15.11.07	50 mm (2 inch) dia, wall thickness: 3.9mm (PWD E/M 14.11.7)	m	2,440.50	2,440.50	2,440.50	2,440.50
15.11.08	40 mm (1½ inch) dia, wall thickness: 3.7mm (PWD E/M 14.11.8)	m	2,047.54	2,047.54	2,047.54	2,047.54
15.11.09	32 mm (1.25 inch) dia, wall thickness: 3.6mm (PWD E/M 14.11.9)	m	1,861.40	1,861.40	1,861.40	1,861.40
15.11.10	25 mm (1inch) dia, wall thickness: 3.4mm (PWD E/M 14.11.10)	m	1,757.99	1,757.99	1,757.99	1,757.99
15.11.11	20 mm (3/4 inch) dia, wall thickness: 2.9mm (PWD E/M 14.11.11)	m	1,220.25	1,220.25	1,220.25	1,220.25
15.11.12	12 mm (1/2 inch) dia, wall thickness: 2.8mm (PWD E/M 14.11.12)	m	785.92	785.92	785.92	785.92
15.12	SS PIPE : Supply and Installation of Stainless Steel TP304/304L grade Pipe for Fire pumps pressure sensing line. The pipe work shall be included with welded type tee, elbow, reducer etc. Standard ASTM, ASME, DIN, EN, ISO,JIS.					
15.12.1	SS Pipe for Sensing line 20 mm (3/4 inch) dia, (PWD E/M 14.12.1)	m	1,592.53	1,592.53	1,592.53	1,592.53
15.12.2	SS Pipe for Sensing line 12 mm (1/2 inch) dia, (PWD E/M 14.12.1)	m	1,240.93	1,240.93	1,240.93	1,240.93
15.13	VALVES & FITTINGS GATE VALVES Supply & installation of valves & fittings complies with ANSI, flange / groove type, temperature range: 0ºC-80ºC; working pressure: 300 PSI minimum, valve body as per ASTM A536, 65-45-12 standard, UL Listed / FM approved. OS & Y GATE VALVES					
15.13.1	250 mm (10 inch) dia (PWD E/M 14.13.1)	each	94,585.36	94,585.36	94,585.36	94,585.36
15.13.2	200 mm (8 inch) dia (PWD E/M 14.13.2)	each	71,884.83	71,884.83	71,884.83	71,884.83
15.13.3	150 mm (6 inch) dia (PWD E/M 14.13.3)	each	61,165.11	61,165.11	61,165.11	61,165.11
15.13.4	100 mm (4 inch) dia (PWD E/M 14.13.4)	each	46,031.08	46,031.08	46,031.08	46,031.08
15.13.5	80 mm (3 inch) dia (PWD E/M 14.13.5)	each	35,185.97	35,185.97	35,185.97	35,185.97
15.13.6	65 mm (2½ inch) dia (PWD E/M 14.13.6)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.13.7	50 mm (2 inch) dia (PWD E/M 14.13.7)	each	22,700.53	22,700.53	22,700.53	22,700.53

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.14	RESILIENT SWING CHECK VALVES :					
15.14.1	250 mm (10 inch) dia (PWD E/M 14.14.1)	each	100,890.78	100,890.78	100,890.78	100,890.78
15.14.2	200 mm (8 inch) dia (PWD E/M 14.14.2)	each	72,514.86	72,514.86	72,514.86	72,514.86
15.14.3	150 mm (6 inch) dia (PWD E/M 14.14.3)	each	52,967.56	52,967.56	52,967.56	52,967.56
15.14.4	100 mm (4 inch) dia (PWD E/M 14.14.4)	each	44,139.97	44,139.97	44,139.97	44,139.97
15.14.5	65 mm (2½ inch) dia (PWD E/M 14.14.5)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.14.6	50 mm (2 inch) dia (PWD E/M 14.14.6)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.15	Y-STRAINERS					
15.15.1	250 mm (10 inch) dia (PWD E/M 14.15.1)	each	94,585.36	94,585.36	94,585.36	94,585.36
15.15.2	200 mm (8 inch) dia (PWD E/M 14.15.2)	each	61,669.75	61,669.75	61,669.75	61,669.75
15.15.3	150 mm (6 inch) dia (PWD E/M 14.15.3)	each	50,445.39	50,445.39	50,445.39	50,445.39
15.15.4	65 mm (2½ inch) dia (PWD E/M 14.15.4)	each	25,852.72	25,852.72	25,852.72	25,852.72
15.15.5	50 mm (2 inch) dia (PWD E/M 14.15.5)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.16	FOOT VALVE WITH STRAINER					
15.16.1	250 mm (10 inch) dia (PWD E/M 14.16.1)	each	88,278.92	88,278.92	88,278.92	88,278.92
15.16.2	200 mm (8 inch) dia (PWD E/M 14.16.2)	each	61,669.75	61,669.75	61,669.75	61,669.75
15.16.3	150 mm (6 inch) dia (PWD E/M 14.16.3)	each	32,789.19	32,789.19	32,789.19	32,789.19
15.16.4	65 mm (2½ inch) dia (PWD E/M 14.16.4)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.16.5	50 mm (2 inch) dia (PWD E/M 14.16.5)	each	15,134.03	15,134.03	15,134.03	15,134.03
15.16.6	40 mm (1½ inch) dia (PWD E/M 14.16.6)	each	12,610.83	12,610.83	12,610.83	12,610.83
15.17	ANTI VORTEX PLATE					
15.17.1	250 mm (10 inch) dia (PWD E/M 14.17.1)	each	63,056.22	63,056.22	63,056.22	63,056.22
15.17.2	200 mm (8 inch) dia (PWD E/M 14.17.2)	each	50,445.39	50,445.39	50,445.39	50,445.39
15.17.3	150 mm (6 inch) dia (PWD E/M 14.17.3)	each	37,833.53	37,833.53	37,833.53	37,833.53
15.17.4	65 mm (2½ inch) dia (PWD E/M 14.17.4)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.17.5	50 mm (2 inch) dia (PWD E/M 14.17.5)	each	12,610.83	12,610.83	12,610.83	12,610.83
15.17.6	40 mm (1½ inch) dia (PWD E/M 14.17.6)	each	10,088.67	10,088.67	10,088.67	10,088.67
15.18	FLEXIBLE JOINT : Supply & installation of flexible joint complies with ANSI, temperature range: 0ºC-80ºC ; working pressure: 200 PSI minimum, valve body as per ASTM A536, 65-45-12 standard, UL Listed / FM approved.					
15.18.1	250 mm (10 inch) dia (PWD E/M 14.18.1)	each	46,662.14	46,662.14	46,662.14	46,662.14
15.18.2	200 mm (8 inch) dia (PWD E/M 14.18.2)	each	35,311.36	35,311.36	35,311.36	35,311.36
15.18.3	150 mm (6 inch) dia (PWD E/M 14.18.3)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.18.4	65 mm (2½ inch) dia (PWD E/M 14.18.4)	each	12,610.83	12,610.83	12,610.83	12,610.83
15.18.5	50 mm (2 inch) dia (PWD E/M 14.18.5)	each	10,088.67	10,088.67	10,088.67	10,088.67
15.19	BALL VALVES CLASS : PN16 Supply & installation of ball valves complies with ANSI, temperature range: 0ºC-80ºC ; working pressure: 200 PSI minimum, valve body as per ASTM A536, 65-45-12 standard, UL Listed / FM approved.					
15.19.1	65 mm (2½ inch) dia (PWD E/M 14.19.1)	each	11,349.75	11,349.75	11,349.75	11,349.75

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.19.2	50 mm (2 inch) dia (PWD E/M 14.19.2)	each	8,197.56	8,197.56	8,197.56	8,197.56
15.19.3	40 mm (1½ inch) dia (PWD E/M 14.19.3)	each	3,783.25	3,783.25	3,783.25	3,783.25
15.19.4	25 mm (1inch) dia (PWD E/M 14.19.4)	each	2,775.00	2,775.00	2,775.00	2,775.00
15.19.5	20 mm (¾ inch) dia (PWD E/M 14.19.5)	each	1,828.42	1,828.42	1,828.42	1,828.42
15.19.6	12 mm (½ inch) dia (PWD E/M 14.19.6)	each	983.58	983.58	983.58	983.58
15.20	PRESSURE GAUGE : Supply and installation of 3.5" - 4" dial type pressure gauges including supply of all accessories and consumable. The range shall be 0-300 psi, UL Listed / FM approved. (PWD E/M 14.20)	each	6,305.42	6,305.42	6,305.42	6,305.42
15.21	PRESSURE SWITCH Supply, installation and testing of pressure switch complete with sensing element, enclosure material, 15 mm NPT pressure connection, direct mounting electrical connection, other material etc. accepted / approved by the Engineer. It shall be UL Listed / FM approved. (PWD E/M 14.21)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.22	PRESSURE RELIEF VALVE Supply, installation and testing pressure relief valve to automatically relieve excess pressure in fire protection pumping systems. Valve body as per ASTM A536 65-45-12 and available pressure relief range 100-300 PSI. Inlet / outlet shall be flanged / threaded end type, UL Listed / FM approved.					
15.22.1	150 mm (6 inch) dia (PWD E/M 14.22.1)	each	258,532.36	258,532.36	258,532.36	258,532.36
15.22.2	100 mm (4 inch) dia (PWD E/M 14.22.2)	each	220,697.81	220,697.81	220,697.81	220,697.81
15.22.3	80 mm (3.25 inch) dia (PWD E/M 14.22.3)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.23	WASTE CONE Supply & installation of flange type waste cone. Two sight glasses extending from the center of the waste cone allow users to observe the flow of water and ensure that the system's pumps and other components are working correctly. The size of the waste cone shall be selected as per main relief valve out line: UL Listed / FM approved.					
15.23.1	200 x 300 mm (8 x 10 inch) dia (PWD E/M 14.23.1)	each	119,808.06	119,808.06	119,808.06	119,808.06
15.23.2	150 x 200 mm (6 x 8 inch) dia (PWD E/M 14.23.2)	each	88,278.92	88,278.92	88,278.92	88,278.92
15.23.3	100 x 150 mm (4 x 6 inch) dia (PWD E/M 14.23.3)	each	60,534.06	60,534.06	60,534.06	60,534.06
15.24	AUTO AIR-VENT VALVE Supply & installation of auto air vent valve of 1 inch (25mm) dia . The valve shall be suitable to release air from the fire hydrant pipes. Shall be suitable to withstand pressure up to 10kg/cm². It shall be UL Listed / FM approved. (PWD E/M 14.24)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.25	FLOW SWITCH Supply & installation of flow switch of leaf type suitable for installation of water hydrant pipe. The flow shall sense flow of water within pipe and send signal to water flow monitoring panel. Flow switch shall be under control of water flow supervisory panel to ensure the hydrant operation. Power supply shall be 24VDC. The flow switch shall be UL Listed / FM approved.					
15.25.1	200 mm dia (PWD E/M 14.25.1)	each	26,483.78	26,483.78	26,483.78	26,483.78
15.25.2	150 mm dia (PWD E/M 14.25.2)	each	26,483.78	26,483.78	26,483.78	26,483.78
15.25.3	100 mm dia (PWD E/M 14.25.3)	each	25,222.69	25,222.69	25,222.69	25,222.69
15.25.4	80 mm dia (PWD E/M 14.25.4)	each	18,917.28	18,917.28	18,917.28	18,917.28
15.25.5	65 mm dia (PWD E/M 14.25.5)	each	18,917.28	18,917.28	18,917.28	18,917.28

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.25.6	50 mm dia (PWD E/M 14.25.6)	each	15,134.03	15,134.03	15,134.03	15,134.03
15.26	PRESSURE REDUCING VALVE : 40mm dia Supply & installation of pressure reducing valve of 1½" (40mm) dia, brass body, screwed end type, shall be used with 40mm dia internal hydrant unit (where to reduce high pressure is necessary). Valve body shall be made with hot pressed brass, seat of stainless steel ANSI304 shall be suitable for 80°C. Initial pressure shall be 15 bar, adjustable final pressure shall be 0.5bar (min), 7bar (max),UL Listed / FM approved. (PWD E/M 14.26)	each	17,656.19	17,656.19	17,656.19	17,656.19
15.27	SPRINKLER HEAD Supply & installation of sprinkler head of 1/2" in diameter nominal orifice, K-factor 5.6 chrome finish glass bulb type. Temperature rating 68˚C for general area others area shall be specified as per requirement. Sprinkler head shall be UL Listed / FM approved or Installation shall be as per NFPA 13.					
15.27.1	Pendent type (with escutcheon / rochette plate) (PWD E/M 14.27.1)	each	2,143.94	2,143.94	2,143.94	2,143.94
15.27.2	Up-right type (PWD E/M 14.27.2)	each	1,954.83	1,954.83	1,954.83	1,954.83
15.27.3	Side wall type (with escutcheon / rochette plate) (PWD E/M 14.27.3)	each	2,395.75	2,395.75	2,395.75	2,395.75
15.28	SPRINKLER ALARM CHECK VALVE Supply & installation of sprinkler alarm check valve (wet riser type) The valve shall be actuated by breaking of sprinklar glass bulb. The valve shall be UL Listed / FM approved .					
15.28.1	8" alarm check valve (PWD E/M 14.28.1)	each	176,558.86	176,558.86	176,558.86	176,558.86
15.28.2	6" alarm check valve (PWD E/M 14.28.2)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.28.3	4" alarm check valve (PWD E/M 14.28.3)	each	44,139.97	44,139.97	44,139.97	44,139.97
15.29	PRESSURE REDUCING VALVE FOR SPRINKLER Supply & installation of Pressure Reducing Valve to limit the pressure below the working pressure of Sprinkler, UL Listed / FM approved.					
15.29.1	8" Pressure Reducing Valve (PWD E/M 14.29.1)	each	277,449.64	277,449.64	277,449.64	277,449.64
15.29.2	6" Pressure Reducing Valve (PWD E/M 14.29.2)	each	208,086.97	208,086.97	208,086.97	208,086.97
15.29.3	4" Pressure Reducing Valve (PWD E/M 14.29.3)	each	151,336.17	151,336.17	151,336.17	151,336.17
15.30	ZONE CONTROL VALVE Supply & installation of zone control valve to get the notification of water flow from any fire zone on a combination of butterfly valve with tamper switch, flow switch, pressure gauge and test & drain valves. All accessories shall be UL Listed / FM approved.					
15.30.1	6" zone control valve set (PWD E/M 14.30.1)	each	90,801.08	90,801.08	90,801.08	90,801.08
15.30.2	4" zone control valve set (PWD E/M 14.30.2)	each	84,495.67	84,495.67	84,495.67	84,495.67
15.30.3	3" zone control valve set (PWD E/M 14.30.3)	each	71,884.83	71,884.83	71,884.83	71,884.83
15.30.4	2.5" zone control valve set (PWD E/M 14.30.4)	each	63,056.22	63,056.22	63,056.22	63,056.22
15.31	FLOW METER Supply & installation of Grooved / Flanged end type flow meter to measure the amount of liquid passing through the venturi of the flow meter in order to measure the performance of Pump. Range shall be minimum 0 -2500 GPM. It shall be UL Listed / FM approved. (PWD E/M 14.31)	each	201,781.56	201,781.56	201,781.56	201,781.56
15.32	TEMPER SWITCH Supply & installation of Temper Switch to monitor the open position OS&Y type gate valve as per NFPA 20. The temper switch shall be mounted conveniently to OS&Y Gate Valves ranging in size from 2"-8", UL Listed / FM approved.Temper Switch for 2"- 8" OS&Y Gate Valve. (PWD E/M 14.32)	each	18,917.28	18,917.28	18,917.28	18,917.28

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.33	GAS SUPPRESSION SYSTEM GAS CYLINDER WITH CLEAN AGENT GAS Supply & fixing UL/FM approved seamless cylinder with FK-5-1-12/ HFC-227ea clean agent gas for gas suppression system, complete with pressure gauge, valve assembly and necessary accessories with a safety burst disc and a safety cap etc in conformity with NFPA 2001. Cylinder shall be seamless steel type manufactured from billets & tested. The cylinder/valve assembly shall have suitable metallic protection for the valve enabling transportation cylinders safely. The cylinder shall be super-pressurized with dry Nitrogen to 25 bar. The cylinder shall be capable of withstanding any temperature between -30° C & 70°C. All cylinders shall be distinctly & permanently marked with the quantity of agent contained, the empty cylinder weight, the pressurization pressure & the zones they are protecting. Storage pressure: 25 bar; Test pressure: From 150 bar to 300 bar.Cylinder should include Syphon tube and Support base/ Strap, complete with Valve Assembly and pressure gauge.The valve assembly shall be mounted directly on the cylinder & should NOT have any adapter provision between the cylinder & valve as per requirements. Each cylinder valve shall have a provision for fixing a supervisory pressure switch & a safety burst disc to protect the cylinder from over pressure. The cylinder valve shall have a disabling plug to prevent accidental discharge of the valve during transportation & installation. Each Valve is to be fitted with a pressure gauge for monitoring loss of pressure. The master cylinder valve is to be released electrically which is performed by means of a solenoid valve arrangement. Pilot cylinder actuation & pneumatic devices shall be used only for Slave Cylinder. The Clean agent gas is stored in seamless steel cylinders & dry nitrogen is added to provide additional energy to give the required rapid discharge. Purity (%)of Clean Agent: 99.99, Applicable Fire Class: Class A, B & C fires. Pressure range :25 bar; Clean agent gas should be UL Listed/ FM Approved. NB: Procuring entity shall mention only one type of clean agent gas (either FK-5-1-12 or HFC-227ea) based on design consideration.					
15.33.1	20 Liter capacity. (PWD E/M 14.33.1)	each	390,951.25	390,951.25	390,951.25	390,951.25
15.33.2	30 Liter capacity. (PWD E/M 14.33.2)	each	416,173.94	416,173.94	416,173.94	416,173.94
15.33.3	50 Liter capacity. (PWD E/M 14.33.3)	each	599,038.22	599,038.22	599,038.22	599,038.22
15.33.4	80 Liter capacity. (PWD E/M 14.33.4)	each	807,125.19	807,125.19	807,125.19	807,125.19
15.33.5	100 Liter capacity. (PWD E/M 14.33.5)	each	1,008,906.75	1,008,906.75	1,008,906.75	1,008,906.75
15.33.6	120 Liter capacity. (PWD E/M 14.33.6)	each	1,152,675.39	1,152,675.39	1,152,675.39	1,152,675.39
15.33.7	140 Liter capacity. (PWD E/M 14.33.7)	each	1,298,967.22	1,298,967.22	1,298,967.22	1,298,967.22
15.34	CLEAN AGENT GAS (REFILLING) Supply of FK-5-1-12/ HFC-227ea Clean agent gas suitable for storing in seamless steel cylinders & dry nitrogen is added to provide additional energy to give the required rapid discharge. Purity (%)of Clean Agent : 99.99, Applicable Fire Class: Class A, B & C fires. Pressure range :25 bar; Clean agent gas should be UL Listed/ FM Approved . NB: Procuring entity shall mention only one type of clean agent gas (either FK-5-1-12 or HFC-227ea) based on design consideration. (PWD E/M 14.34)	kg	6,936.47	6,936.47	6,936.47	6,936.47

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.35	NOZZLE Supply & fixing the discharge nozzles are designed to provide the proper flow rate and distribution of clean agent Gas to total floor of hazardous area. It should be UL Listed/ FM Approved.					
15.35.1	12.5 mm dia (1/2 Inch)360o (PWD E/M 14.35.1)	each	1,892.14	1,892.14	1,892.14	1,892.14
15.35.2	19 mm dia (3/4 Inch)360o (PWD E/M 14.35.2)	each	2,270.36	2,270.36	2,270.36	2,270.36
15.35.3	25 mm dia (1 Inch) 360o (PWD E/M 14.35.3)	each	3,153.22	3,153.22	3,153.22	3,153.22
15.35.4	32 mm dia (11/4 Inch)360o (PWD E/M 14.35.4)	each	3,531.44	3,531.44	3,531.44	3,531.44
15.35.5	40 mm dia (11/2 Inch)360o (PWD E/M 14.35.5)	each	3,783.25	3,783.25	3,783.25	3,783.25
15.35.6	50 mm dia (2 Inch) 360o (PWD E/M 14.35.6)	each	5,675.39	5,675.39	5,675.39	5,675.39
15.35.7	80 mm dia (3 Inch) 360o (PWD E/M 14.35.7)	each	7,566.50	7,566.50	7,566.50	7,566.50
15.35.8	25 mm dia (1 Inch),180o (PWD E/M 14.35.8)	each	2,522.17	2,522.17	2,522.17	2,522.17
15.35.9	50 mm dia (2 Inch) 180o (PWD E/M 14.35.9)	each	4,414.31	4,414.31	4,414.31	4,414.31
15.36	RELEASE CONTROL PANEL Providing & fixing Release control panel for gas suppression system complete with battery and all other necessary accessories. Each unit shall be UL Listed/ FM Approved.					
15.36.1	2 Zone (PWD E/M 14.36.1)	each	94,585.36	94,585.36	94,585.36	94,585.36
15.36.2	4 zone (PWD E/M 14.36.2)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.37	ABORT SWITCH Supply and installation of Abort Switch used to momentarily interrupt the release circuit signal when the control unit is in the alarm condition. As long as the abort pushbutton is held in, the fire suppression system will not release. It should be UL Listed/ FM Approved. (PWD E/M 14.37)	each	10,719.72	10,719.72	10,719.72	10,719.72
15.38	MANUAL RELEASE SWITCH Supply & installation of manual release switch with all necessary accessories. It should be UL Listed/ FM Approved. (PWD E/M 14.38)	each	10,719.72	10,719.72	10,719.72	10,719.72
15.39	MANIFOLD CHECK VALVE Supply & installation of 2" Manifold Check Valve installed at the discharge manifold. It should be UL Listed/ FM Approved. (PWD E/M 14.39)	each	19,547.31	19,547.31	19,547.31	19,547.31
15.40	DISCHARGE HOSE Supply & installation of Discharge Hose 2" of minimum 3-meter long. It should be UL Listed/ FM Approved. (PWD E/M 14.40)	each	18,286.22	18,286.22	18,286.22	18,286.22
15.41	MASTER CYLINDER ADAPTER KIT Supply & installation of Master Cylinder Adapter Kit to actuate the Slave Cylinder. It should be UL Listed/ FM Approved. (PWD E/M 14.41)	each	3,783.25	3,783.25	3,783.25	3,783.25
15.42	PILOT HOSE/ FLEXIBLE ACTUATION HOSE Supply & installation of Pilot Hose/ Flexible Actuation Hose of minimum 3-meter-long (Minimum dia of actuation hose 1/4" or as per manufacturer recommendation). It should be UL Listed/ FM Approved. (PWD E/M 14.42)	each	4,414.31	4,414.31	4,414.31	4,414.31
15.43	MANIFOLD SUPERVISORY SWITCH/ MONITOR SUPERVISORY SWITCH Supply & installation of Manifold Supervisory Switch/ Monitor Supervisory Switch. It should be UL Listed/ FM Approved. (PWD E/M 14.43)	each	15,134.03	15,134.03	15,134.03	15,134.03

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.44	PNEUMATIC RELEASE DEVICE / PRESSURE OPERATED CONTROL HEAD (FOR SLAVE CYLINDER) Supply & installation of Pneumatic Release Device / Pressure Operated Control Head which allows for pressure actuation slave cylinders and is mounted directly on top of the slave cylinders' valve. It should be UL Listed/ FM Approved. (PWD E/M 14.44)	each	20,808.39	20,808.39	20,808.39	20,808.39
15.45	ELECTRO MAGNETIC RELEASE DEVICE OR ELECTRIC CONTROL (FOR MASTER CYLINDER) Supply & installation of Electro Magnetic Release Device or Electric Control Head operated electrically from the Detection & Control System or locally with a manual lever on the control head. It should be UL Listed/ FM Approved. (PWD E/M 14.45)	each	31,528.11	31,528.11	31,528.11	31,528.11
15.46	TWIN FLASHING LIGHT Supply and installation of UL Listed/ FM Approved Twin Flashing Light. (PWD E/M 14.46)	each	8,827.58	8,827.58	8,827.58	8,827.58
15.47	BALANCING, TESTING & COMMISSIONING OF FIRE HYDRANT SYSTEM.					
15.47.1	For level : 1 to 6 (PWD E/M 14.47.1)	each	31,528.11	30,960.78	28,816.83	28,816.83
15.47.2	For next floor add (PWD E/M 14.47.2)	each	6,305.42	6,192.36	5,763.78	5,763.78
15.48	CONVENTIONAL TYPE FIRE DETECTION & ALARM SYSTEM CONVENTIONAL FIRE ALARM CONTROL PANELS: Supply and installation of conventional fire alarm control panel of following capacity with power supply unit, batteries and other accessories. The panel shall be complete with zone indicating LED, fault indication and optional telephone jack etc. The panel shall have input 220V AC and output 24V DC. Panel shall be confirmed UL listed / FM approved.					
15.48.1	08 zone capacity (PWD E/M 14.48.1)	each	88,972.67	88,972.67	88,972.67	88,972.67
15.48.2	16 zone capacity (PWD E/M 14.48.2)	each	99,440.58	99,440.58	99,440.58	99,440.58
15.48.3	24 zone capacity (PWD E/M 14.48.3)	each	123,591.31	123,591.31	123,591.31	123,591.31
15.49	INITIATING DEVICES SMOKE DETECTOR (CONVENTIONAL TYPE) Supply and installation of conventional smoke detector complete with base. Shall be UL listed / FM approved. Shall have built-in alarm LED. Power supply shall be 24V DC. (PWD E/M 14.49)	each	3,349.53	3,349.53	3,349.53	3,349.53
15.50	HEAT DETECTOR (CONVENTIONAL TYPE) Supply and installation of conventional heat detector complete with base. Shall be UL listed / FM approved. Shall have built-in alarm LED. Power supply shall be 24VDC. (PWD E/M 14.50)	each	3,349.53	3,349.53	3,349.53	3,349.53
15.51	MANUAL CALL POINT Supply and installation of conventional type manual call point like break glass switch or single action pull station complete with back box and all other accessories and consumables. Power supply shall be 24V DC. It shall be UL listed / FM approved. (PWD E/M 14.51)	each	3,559.19	3,559.19	3,559.19	3,559.19
15.52	NOTIFICATION DEVICES					
15.52.1	FIRE ALARM BELL Supply and installation of conventional type fire alarm bell of 150mm dia , red color, shall be UL listed / FM approved . Power supply shall be 24V DC. Sound level shall be not less than 92 dBA @ 3 meter. Color of the bell shall be red. (PWD E/M 14.52.1)	each	4,414.31	4,414.31	4,414.31	4,414.31
15.52.2	HORN Supply and installation of conventional type horn for notification purpose suitable to produce electronic sound level of 87 to 95 dBA @ 3 meter complete with back box, red color, shall be UL listed / FM approved. Power supply shall be 24V DC. Color of the device shall be red. (PWD E/M 14.52.2)	each	4,414.31	4,414.31	4,414.31	4,414.31

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.52.3	HORN WITH STROBE Supply and installation of conventional type horn with strobe for notification purpose complete with back box, suitable to produce electronic sound level of 87 to 95 dBA @ 3 meter and illumination shall be not less than 75 candela red color shall be UL listed / FM approved. Power supply shall be 24V DC. (PWD E/M 14.52.3)	each	5,044.33	5,044.33	5,044.33	5,044.33
15.53	Balancing, testing & commissioning of fire detection & alarm system by the competent engineer, technical personnel and provide training to the PWD personnel to operate the system perfectly and safely. (PWD E/M 14.53)					
15.53.1	For 8 zone (PWD E/M 14.53.1)	each	31,528.11	30,960.78	28,816.83	28,816.83
15.53.2	For 16 zone (PWD E/M 14.53.2)	each	63,056.22	61,921.56	57,633.67	57,633.67
15.53.3	For 24 zone (PWD E/M 14.53.3)	each	94,585.36	92,882.33	86,450.50	86,450.50

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1	2	3	4	5	6	7
15.54	ADDRESSABLE TYPE FIRE DETECTION & ALARM SYSTEM ADDRESSABLE TYPE FIRE ALARM CONTROL PANEL Supply & installation of addressable type fire alarm control panel complete with following basic options. Master controller assembly / CPU shall be suitable with port to add voice alarm system / fire fighter telephone system / Printer / remote annunciator etc. FACP must be comply with internationally accepted standard. Addressable fire alarm control panel shall be complete, non-coded, addressable, microprocessor based with the ability to communicating with initiating devices, notification appliances, and monitoring and control devices. Annunciation: Operation of alarm and supervisory initiating devices shall be annunciated at the FACP indicating the location and type of device. Environmental compensation : The FACP shall maintain a moving average of the sensor's smoke chamber value to automatically compensate for dust, dirt, and other conditions that could affect detection operations or shall maintain the dust status of the detector. Programmable sensitivity : Sensitivity of the detector shall be adjusted if needed.The FACP shall be provided with sufficient battery capacity to operate the entire system upon loss of normal AC power in a normal supervisory mode for a period of 24 hours with 5 minutes of alarm operation at the end of this period. The system shall automatically transfer to battery standby upon power failure. All battery charging and recharging operations shall be automatic. Battery : Sealed lead-acid. Provide sufficient capacity to operate the complete alarm system in normal or supervisory (non-alarm) mode for a period of 24 hours. Following this period of operation on battery power, the battery shall have sufficient capacity to operate all components of the system, including all alarm indicating devices in alarm or supervisory mode for a period of 5 minutes. Power supply (input power) shall be 240V AC. All circuits requiring system-operating power shall be 24 V DC and shall be individually fused at the control unit.The incoming power to the system shall be supervised so that any power failure will be indicated at the control unit. A dedicated LED shall be displayed continuously while incoming power is present. In the absence of main power, LED will change its status.The system batteries shall be supervised so that a low battery or depleted battery condition or disconnection of the battery shall be indicated at the control unit and displayed for the specific fault type. The system shall support 100% of addressable devices in alarm or operated at the same time, under both primary (AC) and secondary (battery) power conditions. Loss of primary power shall sound a trouble signal at the FACP. FACP shall indicate when the system is operating on an alternate power supply. Product data sheets for system components highlighted to indicate the specific products, features, or functions required to meet this specification. Alternate or as-equal products submitted under this contract must provide a detailed line-by-line comparison of how the submitted product meets, exceeds, or does not comply with this specification. Wiring diagrams, Shop drawings showing system details including location of FACP, all devices, circuiting and details of graphic annunciator. System power and battery charts with performance graphs and voltage drop calculations to assure that the system will operate as per the prescribed backup time periods and under all voltage					

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
	conditions as per UL and NFPA standards. System operation description including method of operation and supervision of each type of circuit and sequence of operations for all manually and automatically initiated system inputs and outputs. A list of all input and output points in the system shall be provided with a label indicating location or use of IDC, NAC, relay, sensor, and auxiliary control circuits. Alarm silence, system reset and priority to reset global and individual point acknowledge. Set system time and date and clear event log, individual point access for control or parameter revisions. Cabinet shall be lockable steel enclosure. Arrange unit so all operations required for testing or for normal care and maintenance of the system are performed from the front of the enclosure. If more than a single unit is required to form a complete control unit, provide exactly matching modular unit enclosures. Operation and maintenance data for inclusion in operating and maintenance manual. Include data for each type product, including all features and operating sequences, both automatic and manual. Provide the names, addresses, and telephone numbers of service organizations. Operating ambient temperature range: 0° to 45°C (minimum) Operating humidity range: Up to 93% RH, non-condensing @ 90° F (32° C) minimum Approvals: UL listed / FM approved.					
15.54.1	FACP (Fire alarm control panel) up to 150 devices. (PWD E/M 14.54.1)	each	346,811.28	346,811.28	346,811.28	346,811.28
15.54.2	FACP 151-250 devices. (PWD E/M 14.54.2)	each	403,563.11	403,563.11	403,563.11	403,563.11
15.54.3	FACP 251-500 devices. (PWD E/M 14.54.3)	each	504,452.86	504,452.86	504,452.86	504,452.86
15.54.4	FACP 501-750 devices. (PWD E/M 14.54.4)	each	580,120.94	580,120.94	580,120.94	580,120.94
15.54.5	FACP 751-1000 devices. (PWD E/M 14.54.5)	each	693,623.58	693,623.58	693,623.58	693,623.58
15.54.6	FACP 1001-1500 devices. (PWD E/M 14.54.6)	each	819,737.06	819,737.06	819,737.06	819,737.06
15.54.7	FACP 1501-2000 devices. (PWD E/M 14.54.7)	each	1,008,906.75	1,008,906.75	1,008,906.75	1,008,906.75

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			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.55	REPEATER PANEL / REMOTE ANNUNCIATOR Supply & installation of repeater panel / remote LCD annunciator with the same "look and feel" as the FACP operator interface. The remote LCD annunciator shall use the same primary acknowledge, silence, and reset keys, status LEDs and LCD display as the FACP. Annunciator shall have super-twist LCD display with two lines of 20 characters each (Minimum). Annunciator shall be provided with programmable control switches and associated LEDs. Under normal conditions the LCD shall display a "SYSTEM IS NORMAL" or equivalent message or indicate normal status without trouble as per manufacturer design. It Should be capable of detecting an abnormal condition and in this case, the appropriate LED (alarm, supervisory or trouble) shall flash. The unit audible signal shall pulse for alarm conditions and sound steady for trouble and supervisory conditions.The LCD shall display the following information relative to the abnormal condition of a point in the system. Operator keys shall be the key switch enabled to prevent unauthorized use. The key shall only be removable in the disabled position. Acknowledge, silence and reset operation shall be the same as the FACP. Voltage: 20 to 32 VDC, system supplied Operating ambient temperature range shall be : 0° to 45°C(Minimum) Operating humidity range: 0% to 93% RH Non Condensing (Minimum) The panel shall be fixed on wall with surface mount Box. Approvals: UL listed / FM approved.	each	126,113.47	126,113.47	126,113.47	126,113.47
15.56	CENTRAL MONITORING AND CONTROL STATION (AS AND WHEN REQUIRED): Supply & installation of software based total monitoring and control in a single point of workstation (PC based) over a single network system. The intuitive interface displays building floor plans and includes clear, concise instructions on what actions must be taken for both fire and non-fire events, customizable screens and multiple configuration option to facilitate set up, minimize operator training and allow you to adapt the system to your needs.When responding to an event, a coordinated response can save lives and preserve property. The system broadcasts encrypted, real-time voice instructions to a single facility or to multiple locations worldwide using an IP network connection. The system should provide be the following facilities:Supports digital alarm communicator receiver interface for monitoring of remote fire alarm control panel.Graphic editing mode allows for on-site or off-site programming of floor plan screens, devices and navigational butts. Redundant hard drives for enhanced survivability. Email notification.Windows based plform. Certification: UL listed / FM approved. (PWD E/M 14.56)	each	693,623.58	693,623.58	693,623.58	693,623.58

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.57	ADDRESSABLE MULTI DETECTOR / MULTI SENSORS Supply & installation of addressable multi-sensors, shall include with photoelectric / optical smoke sensing and heat sensing technologies complete with standard base. An alarm shall be determined by either smoke detection, with selectable sensitivity or heat detection, selectable as fixed temperature or fixed with selectable rate-of-rise; or based on an analysis of the combination of smoke and heat activity as per NFPA 72. The detector shall be self-restoring: detectors do not require resetting or readjustment after actuation to restore normal operation.No special tools shall be required to remove head once it has been connected with base. Removal of the detector head shall cause a trouble signal at the control unit.Except false ceiling, detector base shall be fixed with gang box in any other ceiling as per manufacturer instruction.In alarm condition, the sensor LED shall be on steady or have Bicolor (green/red) status LED Each sensor shall be scanned by the Control Unit for its type identification to prevent inadvertent substitution of another sensor type. Upon detection of a wrong / unprogrammed device, the control unit shall operate with the installed device at the default alarm settings for that sensor but shall indicate a unprogrammed device trouble condition.Detector shall have at least Two level of dirty detector warning. Detector Shall have non volatile memory to store the data of Sensitivity values, troubles, etc.Detector shall have listed spacing capacity of minimum 30 fe. Operating ambient temperature range shall be : 0° to 45°C(Minimum)Shall be suitable for humidity range: 0% to 93% RH Non Condensing (Minimum) Housing color shall be frost white. Approvals : UL listed / FM approved. (PWD E/M 14.57)	each	8,197.56	8,197.56	8,197.56	8,197.56
15.58	ADDRESSABLE TYPE PHOTOELECTRIC SMOKE DETECTOR Supply & installation of addressable type photoelectric / Optical smoke detector c/w standard Base. The detector shall be self-restoring: detectors do not require resetting or readjustment after actuation to restore normal operation.No special tools shall be required to remove head once it has been connected with base. Removal of the detector head shall cause a trouble signal at the control unit.Except false ceiling, detector base shall be fixed with gang box in any other ceiling as per manufacturer instruction.In alarm condition, the sensor LED shall be on steady or have Bicolor (green/red) status LED Each sensor shall be scanned by the Control Unit for its type identification to prevent inadvertent substitution of another sensor type. Upon detection of a wrong / unprogrammed device, the control unit shall operate with the installed device at the default alarm settings for that sensor but shall indicate a unprogrammed device trouble condition.Detector shall have listed Spacing Capacity of 30 Feet.Detector shall have at least Two level of dirty detector warning. Detector shall have non volatile memory to store the data of Sensitivity values, troubles, etc.Detector having a unique identification shall communicate status to the FACP. Detector shall have at least two sensitivity settings.Removal of the sensor head for cleaning shall not require the setting of address. Operating ambient temperature range shall be minimum: 0° to 45°C(Minimum) Shall be suitable for humidity range: 10% to 95% RH Housing color shall be Frost White or equivalent. Smoke sensor ambient ratings : Air velocity(Minimum) 0-2000 ft/min (0-610m/min) for non Optical Smoke Detector Approvals : UL listed / FM approved. (PWD E/M 14.58)	each	6,305.42	6,305.42	6,305.42	6,305.42

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.59	ADDRESSABLE TYPE HEAT DETECTOR: Supply & installation of addressable type heat detector with the combination of fixed-temperature and rate-of-rise heat detection. The detector shall be self-restoring: detectors do not require resetting or readjustment after actuation to restore normal operation.No special tools shall be required to remove head once it has been connected with base. Removal of the detector head shall cause a trouble signal at the control unit.Except false ceiling, detector base shall be fixed with gang box in any other ceiling as per manufacturer instruction.In alarm condition, the sensor LED shall be on steady or have Bicolor (green/red) status LED Detector shall have listed Spacing Capacity of 50 Feet.The heat sensors of fixed temperature sensing shall be independent of rate-of-rise sensing and programmable to operate at 130°F or 140°F (Minimum). Sensor rate-of-rise temperature detection shall be selectable at the FACP for 15° F per minute (Minimum).Detector having a unique identification shall communicate status to the FACP. Removal of the sensor head for cleaning shall not require the setting of addresses.Detector shall have non volatile memory to store the data of Sensitivity values, troubles, etc. Operating ambient temperature range shall be : 0° to 45°C(Minimum) Shall be suitable for humidity range: 0% to 93% RH Non Condensing (Minimum) Housing color shall be frost white. Approvals: UL listed / FM approved. (PWD E/M 14.59)	each	5,675.39	5,675.39	5,675.39	5,675.39
15.60	ADDRESSABLE MANUAL PULL STATION (MPS) Supply & installation of addressable type manual call station of red color. Station will mechanically latch upon operation and remain so until manually reset by opening with a key common with the control units. Shall be with compact construction, suitable to electronics module enclosure minimizes dust infiltration. Allows mounting in standard electrical boxes. Screw terminals for wiring connections.Activation of the MPS will required a firm downward pull to activate the alarm switch. The pull lever latches into the alarm position and remains extended out of the housing to provide a visible indication. Operating ambient temperature range shall be : 0° to 45°C(Minimum) Humidity range: 93% RH(minimum) at 100°F (38°C) Housing color shall be red with white raised lettering. Housing and pull lever shall be made with lexan polycarbonate or equal. The MPS shall be semi-flash / surface mount type. Approvals: UL listed/FM approved.					
15.60.1	Addressable manual pull station : Single action (PWD E/M 14.60.1)	each	7,566.50	7,566.50	7,566.50	7,566.50
15.60.2	Addressable manual pull station : Double action (PWD E/M 14.60.2)	each	10,088.67	10,088.67	10,088.67	10,088.67
15.61	ADDRESSABLE NOTIFICATION DEVICES					

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.61.1	ADDRESSABLE NOTIFICATION DEVICE (HORN ONLY): Supply & installation of addressable type audible horn for notification purpose shall contain an electronic module and a selectable address setting. The device shall be suitable to program the high / low setting of the audible (horn) appliances. The horn shall be red color with / without "FIRE" lettering. Addressable horn shall be UL listed / FM approved. The horn shall be suitable to produce sound pressure level of 89 dBA @ 24VDC at low level as per NFPA Standard. The horn shall suitable to mount directly to a standard single gang, double gang or 4" square electrical box, without the use of special adapter or trim rings. Shall have suitable operating ambient temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.61.1)	each	5,675.39	5,675.39	5,675.39	5,675.39
15.61.2	ADDRESSABLE NOTIFICATION DEVICE (STROBE ONLY) Supply & installation of addressable type notification device for visual notification purpose . It shall contain an electronic module and a selectable address setting. The strobe shall be red color with / without "FIRE" lettering. The Strobe shall be selectable at 15, 30, 75, or 110 Shall have suitable operating temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals: UL listed / FM approved. (PWD E/M 14.61.2)	each	6,305.42	6,305.42	6,305.42	6,305.42
15.61.3	ADDRESSABLE NOTIFICATION DEVICE (HORN WITH STROBE) Supply & installation of addressable type audible horn with strobe for notification purpose shall contain an electronic module and a selectable address setting. The device shall be suitable to program the high / low setting of the audible (horn) appliances. The horn shall be red color with / without "FIRE" lettering. Addressable horn shall be UL listed / FM approved . The horn shall be suitable to produce sound pressure level of 89 dBA @ 24VDC at low level as per NFPA Standard. The horn shall suitable to mount directly to a standard single gang, double gang or 4" square electrical box, without the use of special adapter or trim rings. Shall have suitable operating ambient temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. The Strobe shall be selectable at 15, 30, 75, or 110 cd (PWD E/M 14.61.3)	each	8,197.56	8,197.56	8,197.56	8,197.56

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.62	ADDRESSABLE MODULES ISOLATOR MODULE / FAULT ISOLATOR MODULE Supply & installation of addressable type isolator / fault Isolator module, shall be used in the field wiring between the devices to detect & isolate the devices at the time short circuit in SLC. The module shall be suitable to provide communications isolation to improve installation convenience and increase the system integrity. Isolation will be automatically activated when an output short circuit is detected (also be suitable for manual operation for isolation and troubleshooting for wiring problems). The device shall be suitable for indoor use only. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals: UL listed / FM approved. (PWD E/M 14.62)	each	6,305.42	6,305.42	6,305.42	6,305.42
15.63	ADDRESSABLE-CONVENTIONAL INTERFACE MODULE Supply & installation of addressable - conventional interface module shall be used in the field wiring to connect the conventional Initiating devices with the addressable FACP interfaces to make the system convenient as when as required (configured by the service provider). The module shall be suitable for single address to the FACP on receiving signal from any conventional initiating device. The device shall be suitable for indoor use ly. Shall have suitable operating ambient temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals: UL listed / FM approved. (PWD E/M 14.63)	each	7,566.50	7,566.50	7,566.50	7,566.50
15.64	ADDRESSABLE RELAY / CONTROL MODULE Supply & installation of addressable relay / control module shall be used to interfaces with control / operate dampers, motors or similar appliances on receiving signal from the FACP as when as required (configured by the service provider). The device shall be suitable for indoor use only and shall be with ba box. Shall have suitable operating ambient temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.64)	each	6,558.25	6,558.25	6,558.25	6,558.25
15.65	ADDRESSABLE INPUT/MONITOR MODULE Supply & installation of addressable input / Monitor module shall be used to monitor the status of the required appliances as per NFPA and send signal to the FACP as when as required (configured by the service provider). The device shall be suitable for indoor use only and shall be with back x. Shall have suitable operating ambient temperature range : 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.65)	each	7,061.86	7,061.86	7,061.86	7,061.86

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.66	ADDRESSABLE INPUT/MONITOR MODULE Supply & installation of addressable input / Monitor module shall be used to monitor the status of the required appliances as per NFPA and send signal to the FACP as when as required (configured by the service provider). The device shall be suitable for indoor use only and shall be with bk box. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.66)	each	7,566.50	7,566.50	7,566.50	7,566.50
15.67	TELEPHONE JACK Supply & installation of Telephone Jack for two-way communication or Fire Telephone system shall be integrated with FACP using addressable input signal module. The telephone jack shall be semi-flash / surface mount type and use Gang box or Back box. The portable telephone can be configured to provide either Three-state or Four state as per NFPA.The device shall be suitable for indoor use only and shall be with babox. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.67)	each	3,783.25	3,783.25	3,783.25	3,783.25
15.68	PORTABLE TELEPHONE HANDSET Supply & installation of portable Telephone Hand set. Portable telephone handset is an emergency telephone that provides two-way communication during a fire. Color of the telephone handset shall be Black/Red. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.68)	each	7,566.50	7,566.50	7,566.50	7,566.50
15.69	FIREFIGHTER TELEPHONE CONTROL UNIT Supply & installation of firefighter telephone control unit that contains the master telephone handset that provides an analog telephone riser for two-way communications between the fire command station and firefighter's telephone stations installed in the facility.The Fire telephone unit features an alphanumeric display that indicates both incoming and connected calls. Up to five remote telephones may be connected to the riser simultaneously. The fire command center operator can also use the telephone circuit as a page source, permitting paging via the telephone system. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 90°F (32°C) Approvals : UL listed / FM approved. (PWD E/M 14.69)	each	151,336.17	151,336.17	151,336.17	151,336.17

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.70	REMOTE BOOSTER POWER SUPPLY Supply & installation of Remote Booster Power designed to augment fire alarm audible and visual power requirements as well as provide power for auxiliary and security applications as per NFPA 72.The Remote Booster Power Supply is a self-contained 24 Vdc power supply. The booster contains all of the necessary circuits to monitor and charge batteries, control and supervise Two Class B or One Class A NAC circuits (Minimum) and monitor two controlling inputs from external sources. Minimum Capacity of remote Booster power shall be not less than 6A. Shall have suitable operating ambient temperature range: 0° to 45°C (Minimum) Humidity range: Minimum 93% RH at 100°F (38°C) Approvals : UL listed / FM approved. (PWD E/M 14.70)	each	138,724.31	138,724.31	138,724.31	138,724.31
15.71	DUCT DETECTOR Supply & installation of Duct Detector to install inside the supply or return air duct as per NFPA 72.Sampling tube can be installed with or without the cover in place and can be rotated in 45-degree increments to ensure proper alignment with duct airflow. Shall have facility of remote Test Station for each detector.Shall have environmental compensation with differential sensing for reliable, stable, and drift-free sensitivity Shall have operating ambient temperature range from -15°C to 60°C with 100 ft/min. to 3500 ft/min air velocity rating which assures reliability under harsh environmental conditions.Humidity range: Minimum 93% RH Non CondensingApprovals : UL listed / FM approved. (PWD E/M 14.71)	each	22,069.47	22,069.47	22,069.47	22,069.47
15.72	ADDRESSABLE BEAM DETECTOR (FOR 25 FT AND ABOVE HEIGHT): Supply & installation of addressable Beam Detector with Reflector which is uniquely suited for protecting open areas with high ceiling, where other methods of smoke detection are difficult to install and maintain. It is to be used with compatible control panes only and maintenance and test requirements of NFPA 72. The beam detector consists of transmitter / receiver unit and reflector. when smoke enters the area between the unit and the reflector, the smoke causes a reduction in the signal. when the smoke level reaches the predetermined threshold, an alarm is activated. The beam detector protection range is minimum 16 feet on both sides of the transmitter / receiver unit and minimum 320 feet from transmitter to reflector and shall include a digital display for easy alignment & built in automatic gain control which compensates for signal deterioration from dust build-up. Operating ambient temperature range: - 30°C to 55°C, operating humidity range: 10 to 95% RH non condensing. Approvals: UL listed / FM approved. (PWD E/M 14.72)	each	126,113.47	126,113.47	126,113.47	126,113.47

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.73	VERY EARLY DETECTION SYSTEM / ASPIRATION DETECTION SYSTEM (ADDRESSABLE TYPE) (AS WHEN REQUIRED) : Supply & installation of addressable type Aspiration detection / Very early detection system including controller, pipe and accessories to provide very early warning and best nuisance alarm rejection, higher stability, increased longevity and particle characterization. Direct imaging the sampled particles using a CMOS imager combined with multiple photo-diodes allow vastly more data about the observed particles for a wide range of applications as per the guideline of the NFPA 72.An intelligent detector connects to the SLC loop of compatible intelligent fire alarm control panels using flash scan protocol to communicate up to five levels of events for display and use in control-by event system programming. Operating conditions (Ambient: 0º C to 39º C, Sampled air: -20ºC to 60ºC, Humidity: 5% to 955 RH, non-condensing) IP rating: IP40.Piping design should be completed using software based design tools (as per manufacturer recommendation). Pipe Length: Linear: maximum 100 m and Branched maximum 130 m. Pipe size: 25mm diameter.Approvals : UL listed / FM approved.					
15.73.1	Area Coverage 250 m2 (PWD E/M 14.73.1)	each	422,479.36	422,479.36	422,479.36	422,479.36
15.73.2	Area Coverage 500 m2 (PWD E/M 14.73.2)	each	573,815.53	573,815.53	573,815.53	573,815.53
15.73.3	Area Coverage 1000 m2 (PWD E/M 14.73.3)	each	662,094.44	662,094.44	662,094.44	662,094.44
15.73.4	Area Coverage 2000 m2 (PWD E/M 14.73.4)	each	838,653.31	838,653.31	838,653.31	838,653.31
15.74	ADDRESSABLE BACnet / Modbus INTERFACE MODULE: Supply & installation of addressable BACnet/Modbus Interface Modules for connecting Building Management System with the main Fire Alarm Control Panels as per NFPA 72 standard. Approvals: UL listed / FM approved. (PWD E/M 14.74)	each	107,196.19	107,196.19	107,196.19	107,196.19
15.75	Programming, testing & commissioning of addressable type fire alarm system by the competent engineer, technical personals and provide training to the pwd personals to operate the system perfectly and safely.					
15.75.1	FACP for up to 150 addressable devices. (PWD E/M 14.75.1)	each	94,585.36	92,882.33	86,450.50	86,450.50
15.75.2	FACP for 151-250 addressable devices. (PWD E/M 14.75.2)	each	126,113.47	123,843.11	115,267.33	115,267.33
15.75.3	FACP for 251-500 addressable devices. (PWD E/M 14.75.3)	each	189,169.69	185,764.67	172,901.00	172,901.00
15.75.4	FACP for 501-750 addressable devices. (PWD E/M 14.75.4)	each	235,831.83	231,587.11	215,550.69	215,550.69
15.75.5	FACP for 751-1000 addressable devices. (PWD E/M 14.75.5)	each	263,576.69	258,832.47	240,909.06	240,909.06
15.75.6	FACP for 1001-1500 addressable devices. (PWD E/M 14.75.6)	each	291,321.56	286,077.83	266,268.44	266,268.44
15.75.7	FACP for 1501-2000 addressable devices. (PWD E/M 14.75.7)	each	319,066.42	313,323.19	291,626.81	291,626.81
15.76	Supply and installation of "Exit light" complete with rechargeable battery and charge light and other necessary accessories suitable for AC / DC power supply (220V single phase) as per NFPA 101. (PWD E/M 14.76)	each	3,783.25	3,783.25	3,783.25	3,783.25
15.77	Supply and installation of "Evacuation light" complete with rechargeable battery and charge light and other necessary accessories suitable for AC / DC power supply (220V single phase) as per NFPA 101. (PWD E/M 14.77)	each	4,414.31	4,414.31	4,414.31	4,414.31

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.78	SIGNALING CABLE WITH PVC CONDUIT & ACCESSORIES Surface conduit wiring with the following FPLR/ FPLP/ FPL type UL listed / FM Approved / LPCB Approved cable. PVC Insulation for each core shall be FR (Fire Rated) & Drain wire, shield (Aluminum Foil tape/ PET tape) shall meet the minimum requirement as per NEC (National Electric Code) or NFPA 70 or BS. Jacket shall be Fire Rated. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) . The work shall be carried out as per direction & approval of the Engineer in charge.					
15.78.1	2C-1.5 sqmm (FPLR/ FPLP/ FPL) cable with 1.5 sqmm (FR) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm. (PWD E/M 14.78.1)	m	245.64	245.64	245.64	245.64
15.78.2	2C-2.5 sqmm (FPLR/ FPLP/ FPL) cable with 2.5 sqmm (FR) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm. (PWD E/M 14.78.2)	m	321.69	321.69	321.69	321.69
15.79	FIRE RATED DOOR Supply & Installation of UL Listed /FM Approved Fire Rated Door completed with Panic Bar. The door shall be made with 1.5mm thick sheet steel painted with approved red color over a coat of primer. Thickness of the leaf shall be 40mm and filled with fire proof / resisting materials of minimum two hours rated. The Panic bar shall be Horizontal type, UL Listed/ FM approved made of Aluminium Alloy / steel, chrome plated, c/w with security lock to operated from outside. Door frame shall be made with same sheet steel of similar thickness. Hinges shall be quite smooth, robust and aligned properly. Peripheral clearance of the shutter should be as per standard code of practice. The opening of the door should be in one direction Door size shall be minimum 1000mm (width) x 2100mm (height). Measurement of the door shall include Frame. (PWD E/M 14.79)	sqm	56,750.81	56,750.81	56,750.81	56,750.81
15.80	SPARE PARTS PUMP CONTROL PANEL FOR ENGINE DRIVEN FIRE PUMPS The controller shall be UL listed and FM approved & BMS supported, completely assembled and wired from the factory. The controller shall be 12 volt / 24 volt., and shall be complete with all necessary component and accessories. The controller shall be operable automatically on sensing low pressure in the system and shall be provided with a pressure-actuated switch having independent high & low calibrated adjustments. The switch shall be responsive to water pressure in the fire protection system. The pressure-sensing element of the switch shall be capable of momentary surge pressure of 300 psi (minm) without loosing its accuracy, suitable provision shall be made for relieving pressure to the pressure actuated switch to allow testing of the operation of the controller and the pumping unit. (PWD E/M 14.80)	each	397,256.67	397,256.67	397,256.67	397,256.67

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.81	PUMP CONTROL PANEL FOR MOTOR DRIVEN FIRE & JOCKEY PUMPS Supply, installation of UL listed / FM approved (for Motor driven fire pump) & UL listed / FM approved (for jockey pump), BMS supported fire & jockey pump control panel complete with MCCB / MCB / magnetic contactor / on-off push switch / indication lamp for phase indication, run, trip mode / ampere meter / volt meter / overload selector switch / phase failure protection device / dry operation protection device / volt guard / connector block / bus-bar / CT of rated capacity / ventilation fan / buzzer / cable lugs / and all other accessories. The panel shall be well dressed in side for safety purpose and for looking good. The panel shall be suitable for 3-phase 400 ± 5% volt 50Hz power supply. The panel shall with auto-manual mode to operate the pumps controlled by pressure sensors. For fire pump the panel shall have option to start the pump automatically by stop shall be manual. For jockey pump the panel shall be suitable to start-stop the pump automatically controlled by pressure sensor. Enclosureof the panel shall be made with 16 SWG sheet steel and shall be painted with powder coating of red color approved as Fire code. Door of the panel shall be swing type with locking arrangement. Knob of main MCCB shall be extended in front screen. The panel shall be wall mounted type with fixing arrangement properly. The panel shall be manufactured in accordance with standard code of practice as NFPA/ NEMA / IEC / VDE / BS standards comprising of required capacity.					
15.81.01	Controller for motor driven Fire Pump 500GPM, 9 BAR. (PWD E/M 14.81.1)	each	136,202.14	136,202.14	136,202.14	136,202.14
15.81.02	Controller for motor driven Fire Pump 500GPM, 10 BAR. (PWD E/M 14.81.2)	each	147,552.92	147,552.92	147,552.92	147,552.92
15.81.03	Controller for motor driven Fire Pump 500GPM, 12 BAR. (PWD E/M 14.81.3)	each	170,253.44	170,253.44	170,253.44	170,253.44
15.81.04	Controller for motor driven Fire Pump 500GPM, 14 BAR. (PWD E/M 14.81.4)	each	204,303.72	204,303.72	204,303.72	204,303.72
15.81.05	Controller for motor driven Fire Pump 750GPM, 9 BAR. (PWD E/M 14.81.5)	each	147,552.92	147,552.92	147,552.92	147,552.92
15.81.06	Controller for motor driven Fire Pump 750GPM, 10 BAR. (PWD E/M 14.81.6)	each	158,902.67	158,902.67	158,902.67	158,902.67
15.81.07	Controller for motor driven Fire Pump 750GPM, 12 BAR. (PWD E/M 14.81.7)	each	198,628.33	198,628.33	198,628.33	198,628.33
15.81.08	Controller for motor driven Fire Pump 750GPM, 14 BAR. (PWD E/M 14.81.8)	each	227,004.25	227,004.25	227,004.25	227,004.25
15.81.09	Controller for motor driven Fire Pump 1000GPM, 9 BAR. (PWD E/M 14.81.9)	each	204,303.72	204,303.72	204,303.72	204,303.72
15.81.10	Controller for motor driven Fire Pump 1000GPM, 10 BAR. (PWD E/M 14.81.10)	each	215,653.47	215,653.47	215,653.47	215,653.47
15.81.11	Controller for motor driven Fire Pump 1000GPM, 12 BAR. (PWD E/M 14.81.11)	each	249,704.78	249,704.78	249,704.78	249,704.78
15.81.12	Controller for motor driven Fire Pump 1000GPM, 14 BAR. (PWD E/M 14.81.12)	each	272,404.28	272,404.28	272,404.28	272,404.28
15.81.13	Controller for motor driven Fire Pump 1250GPM, 9 BAR. (PWD E/M 14.81.13)	each	227,004.25	227,004.25	227,004.25	227,004.25
15.81.14	Controller for motor driven Fire Pump 1250GPM, 10 BAR. (PWD E/M 14.81.14)	each	249,704.78	249,704.78	249,704.78	249,704.78

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.81.15	Controller for motor driven Fire Pump 1250GPM, 12 BAR. (PWD E/M 14.81.15)	each	312,130.97	312,130.97	312,130.97	312,130.97
15.81.16	Controller for motor driven Fire Pump 1250GPM, 14 BAR. (PWD E/M 14.81.16)	each	340,505.86	340,505.86	340,505.86	340,505.86
15.81.17	Controller for JP (20 GPM, 9 BAR). (PWD E/M 14.81.17)	each	100,890.78	100,890.78	100,890.78	100,890.78
15.81.18	Controller for JP (20 GPM, 10 BAR). (PWD E/M 14.81.18)	each	113,501.61	113,501.61	113,501.61	113,501.61
15.81.19	Controller for JP (20 GPM, 12 BAR). (PWD E/M 14.81.19)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.81.20	Controller for JP (20 GPM, 14 BAR). (PWD E/M 14.81.20)	each	151,336.17	151,336.17	151,336.17	151,336.17
15.81.21	Controller for JP (30 GPM, 9 BAR). (PWD E/M 14.81.21)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.81.22	Controller for JP (30 GPM, 10 BAR). (PWD E/M 14.81.22)	each	138,724.31	138,724.31	138,724.31	138,724.31
15.81.23	Controller for JP (30 GPM, 12 BAR). (PWD E/M 14.81.23)	each	176,558.86	176,558.86	176,558.86	176,558.86
15.81.24	Controller for JP (30 GPM, 14 BAR). (PWD E/M 14.81.24)	each	201,781.56	201,781.56	201,781.56	201,781.56
15.81.25	Controller for JP (40 GPM, 9 BAR). (PWD E/M 14.81.25)	each	126,113.47	126,113.47	126,113.47	126,113.47
15.81.26	Controller for JP (40 GPM, 10 BAR). (PWD E/M 14.81.26)	each	138,724.31	138,724.31	138,724.31	138,724.31
15.81.27	Controller for JP (40 GPM, 12 BAR). (PWD E/M 14.81.27)	each	163,947.00	163,947.00	163,947.00	163,947.00
15.81.28	Controller for JP (40 GPM, 14 BAR). (PWD E/M 14.81.28)	each	176,558.86	176,558.86	176,558.86	176,558.86
15.81.29	Controller for JP (50 GPM, 9 BAR). (PWD E/M 14.81.29)	each	151,336.17	151,336.17	151,336.17	151,336.17
15.81.30	Controller for JP (50 GPM, 10 BAR). (PWD E/M 14.81.30)	each	163,947.00	163,947.00	163,947.00	163,947.00
15.81.31	Controller for JP (50 GPM, 12 BAR). (PWD E/M 14.81.31)	each	189,169.69	189,169.69	189,169.69	189,169.69
15.81.32	Controller for JP (50 GPM, 14 BAR). (PWD E/M 14.81.32)	each	220,697.81	220,697.81	220,697.81	220,697.81
15.82	STAIRCASE PRESSURIZATION SYSTEM AIR LOUVER Supply, installation, testing & commissioning of Louver made of Aluminium of following size with all necessary accessories and fittings approved by Engineer in charge					
15.82.01	400 x 200 mm. (PWD E/M 14.82.1)	each	3,228.25	3,228.25	3,228.25	3,228.25
15.82.02	400 x 250 mm. (PWD E/M 14.82.2)	each	4,036.08	4,036.08	4,036.08	4,036.08
15.82.03	450 x 200 mm. (PWD E/M 14.82.3)	each	3,632.17	3,632.17	3,632.17	3,632.17
15.82.04	450 x 250 mm. (PWD E/M 14.82.4)	each	4,086.44	4,086.44	4,086.44	4,086.44
15.82.05	750 x 350 mm. (PWD E/M 14.82.5)	each	8,655.94	8,655.94	8,655.94	8,655.94
15.82.06	850 x 350 mm. (PWD E/M 14.82.6)	each	9,604.58	9,604.58	9,604.58	9,604.58
15.82.07	900 x 350 mm. (PWD E/M 14.82.7)	each	10,154.44	10,154.44	10,154.44	10,154.44
15.82.08	900 x 400 mm. (PWD E/M 14.82.8)	each	11,486.44	11,486.44	11,486.44	11,486.44
15.82.09	1200 x 350 mm. (PWD E/M 14.82.9)	each	13,151.44	13,151.44	13,151.44	13,151.44
15.82.10	1200 x 400 mm. (PWD E/M 14.82.10)	each	14,074.39	14,074.39	14,074.39	14,074.39
15.82.11	1500 x 550 mm. (PWD E/M 14.82.11)	each	19,975.89	19,975.89	19,975.89	19,975.89
15.82.12	1600 x 600 mm. (PWD E/M 14.82.12)	each	23,245.25	23,245.25	23,245.25	23,245.25
15.82.13	1650 x 550 mm. (PWD E/M 14.82.13)	each	21,973.89	21,973.89	21,973.89	21,973.89
15.82.14	1700 x 600 mm. (PWD E/M 14.82.14)	each	24,698.53	24,698.53	24,698.53	24,698.53
15.82.15	2200 x 800 mm. (PWD E/M 14.82.15)	each	42,615.78	42,615.78	42,615.78	42,615.78

Item Code	Brief Description of Item	Unit	Rate			
			Zone-A Dhaka & Mymensingh Division	Zone-B Chattogram & Sylhet Division	Zone-C Rajshahi & Rangpur Division	Zone-D Khulna & Barishal Division
1	2	3	4	5	6	7
15.83	PRESSURIZED FAN Supply, installation, testing & commissioning of Pressurized Fan of following capacity with VFD and pressure sensors control system including non-return damper with all necessary accessories and fittings, equipments including all electrical & civil works as per drawing and direction of engineer in charge. Country of Manufacture: Malaysia/South Korea/Thailand.					
15.83.1	Capacity : 14000 cfm, ESP 100 Pa. (PWD E/M 14.83.1)	each	353,117.72	353,117.72	353,117.72	353,117.72
15.83.2	Capacity : 18000 cfm, ESP 100 Pa. (PWD E/M 14.83.2)	each	454,007.47	454,007.47	454,007.47	454,007.47
15.83.3	Capacity : 28000 cfm, ESP 100 Pa. (PWD E/M 14.83.3)	each	706,234.42	706,234.42	706,234.42	706,234.42
15.84	DUCT Supply, installation and testing of galvanized plain sheets duct work of different sizes as per drawing and detail technical specification including supply of duct hanger/ isolator boxes, hanger rods, steel supports and all necessary materials, duct materials and construction shall be completed as per detail specification and SMACNA standards. Sample shall be approved by Engineer-in-Charge. The work shall be completed as per drawing and instruction of Engineer-in-Charge.					
15.84.1	Ducts made of 24 SWG GP Sheets. (PWD E/M 14.84.1)	sqm	2,171.94	2,171.94	2,171.94	2,171.94
15.84.2	Ducts made of 22 SWG GP Sheets. (PWD E/M 14.84.2)	sqm	2,443.43	2,443.43	2,443.43	2,443.43
15.84.3	Ducts made of 20 SWG GP Sheets. (PWD E/M 14.84.3)	sqm	2,850.66	2,850.66	2,850.66	2,850.66
15.84.4	Ducts made of 18 SWG GP Sheets. (PWD E/M 14.84.4)	sqm	3,393.65	3,393.65	3,393.65	3,393.65

RATES OF MAN, MATERIAL, EQUIPMENT & MARK-UPS

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
	MARK-UPS					
1	Contractor's Profit	-	10.00%	10.00%	10.00%	10.00%
2	Contractor's Overhead Expenses	-	3.50%	3.50%	3.50%	3.50%
3	VAT	-	7.50%	7.50%	7.50%	7.50%
	Labour & Man-power					
1	Adhesive dressings	Box	150.00	150.00	150.00	150.00
2	Antiseptic Solution 100ml bottle	each	125.00	125.00	125.00	125.00
3	Assistant Electrician	day	575.00	560.00	525.00	525.00
4	Autocad operator	day	1,200.00	1,200.00	1,200.00	1,200.00
5	B. Sc. Engineer/Foundation Engineer	day	1,400.00	1,400.00	1,400.00	1,400.00
6	Bandages	Pack	250.00	250.00	250.00	250.00
7	Blacksmith	day	700.00	700.00	650.00	650.00
8	CAD Operator	day	1,200.00	1,200.00	1,200.00	1,200.00
9	Carpenter	day	700.00	700.00	650.00	650.00
10	Computer Operator	day	588.00	588.00	588.00	588.00
11	Cotton balls or Swabs	Pack	50.00	50.00	50.00	50.00
12	Diploma Engineer (Daily Basis)	day	1,100.00	1,100.00	1,100.00	1,100.00
13	Drawing Checking by Archt./Engr.	month	80,000.00	80,000.00	80,000.00	80,000.00
14	Electric Mistry/Fitter	day	700.00	700.00	650.00	650.00
15	Electrician	day	700.00	700.00	650.00	650.00
16	Emergency blanket	Pack	600.00	600.00	600.00	600.00
17	Foreman/Supervisor	day	850.00	850.00	800.00	800.00
18	Geo-tech Expert/Engineer	day	3,000.00	3,000.00	3,000.00	3,000.00
19	Gloves (powdered)	Pack	550.00	550.00	550.00	550.00
20	Hand Sanitizer 250 ml	each	250.00	250.00	250.00	250.00
21	Head Mason/Mosaic head mistry	day	800.00	800.00	750.00	750.00
22	Helper of Plumber/ Electric Mistry/ Painter/ Carpenter/Welder/Fitter/ Foreman/Operator/others	day	550.00	540.00	500.00	500.00
23	Helper to Surveyor	day	800.00	800.00	750.00	750.00
24	Hiring of complete Surveillance facility for monitoring	Job	40,000.00	40,000.00	40,000.00	40,000.00
25	Hygienic Gown	each	120.00	120.00	120.00	120.00
26	Ice bag	each	300.00	300.00	300.00	300.00
27	Inventory listing	day	1,200.00	1,200.00	1,200.00	1,200.00
28	Lab Assistant	day	850.00	850.00	800.00	800.00
29	Local carriage, loading, unloading & sundries	cum	400.00	400.00	400.00	400.00
30	Machine Operator/Sareng/Pump Operator	day	700.00	700.00	650.00	650.00
31	Mason/Mistry	day	700.00	700.00	650.00	650.00
32	Mosaic mistry	day	700.00	700.00	650.00	650.00
33	Ordinary labour	day	550.00	540.00	500.00	500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
34	Photographer	day	1,200.00	1,200.00	1,200.00	1,200.00
35	Re-bar Fabricator	day	700.00	700.00	650.00	650.00
36	Rig Operator	day	700.00	700.00	650.00	650.00
37	Rig Operator Helper	day	600.00	580.00	550.00	550.00
38	Saline	box	100.00	100.00	100.00	100.00
39	Sardar	day	800.00	800.00	750.00	750.00
40	Semi Skilled Technician/Asst. Technician/Mechanics	day	800.00	800.00	750.00	750.00
41	Skilled Labour	day	600.00	580.00	550.00	550.00
42	Skilled Technician	day	1,200.00	1,200.00	1,200.00	1,200.00
43	Survey & existing drawing study by Engr./Archt.	day	1,800.00	1,800.00	1,800.00	1,800.00
44	Surveyor (10yrs Exp / Diploma Engineer trained in survey)	day	1,400.00	1,400.00	1,400.00	1,400.00
45	Thermometer	each	80.00	80.00	80.00	80.00
46	Videographer	day	1,200.00	1,200.00	1,200.00	1,200.00
47	Welder	day	700.00	700.00	650.00	650.00
	Equipment, Tools, Plants, Vehicle etc.					
42	Carrying Charge of Earth/Similar Materials by 5 ton Capacity Truck in Metropolitan/Municipal Area	trip	2,000.00	2,000.00	1,850.00	1,850.00
43	Carrying Charge of Earth/Similar Materials by Any Means for Site Development (Within 30km radius)	m3	265.00	265.00	265.00	265.00
44	Carrying Charge of Earth/Similar Materials by Any Means for Site Development in City or Municipal Area	m3	265.00	265.00	265.00	265.00
45	Core Cutter: Beyond 100km from Dhaka	per km	38.50	38.50	38.50	38.50
46	Core Cutter: per core after 1st 3 cores	each	4,620.00	4,620.00	4,620.00	4,620.00
47	H. C. of AC Paver	day	11,000.00	11,000.00	11,000.00	11,000.00
48	H. C. of Asphalt Plant	day	15,000.00	15,000.00	15,000.00	15,000.00
49	H. C. of Buldozer (15t) for Spreading @ 200 cum per hour	day	12,100.00	12,100.00	12,100.00	12,100.00
50	H. C. of Chain Saw	day	2,200.00	2,200.00	2,200.00	2,200.00
51	H. C. of Compressor	day	1,200.00	1,200.00	1,200.00	1,200.00
52	H. C. of Dredger	day	13,200.00	13,200.00	13,200.00	13,200.00
53	H. C. of Level/Theodolite	day	1,000.00	1,000.00	1,000.00	1,000.00
54	H. C. of Pressing Machine	day	3,300.00	3,300.00	3,300.00	3,300.00
55	H. C. of Small Hand Tools	day	980.00	980.00	980.00	980.00
56	H. C. of Survey Instrument (Level / Theodolite etc.)	day	3,500.00	3,500.00	3,500.00	3,500.00
57	H. C. of Thermoplastic Appilicator Machine	day	2,200.00	2,200.00	2,200.00	2,200.00
58	H. C. of Wheel Loader (Max. 0.8 m3)	day	12,000.00	12,000.00	12,000.00	12,000.00
59	H.C. of 100mm dia & 4mm thick MS pipe	m/mont	45.00	45.00	45.00	45.00
60	H.C. of 150mm dia & 4mm thick MS pipe	m/mont	65.00	65.00	65.00	65.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
61	H.C. of 200mm dia & 6.5mm thick MS pipe	m/mont	115.00	115.00	115.00	115.00
62	H.C. of 3 Wheel Static Road roller (8-10 ton) [including fuel & Operator]	day	6,050.00	6,050.00	6,050.00	6,050.00
63	H.C. of 300 mm dia & 10 mm thick MS pipe	m/mont	420.00	420.00	420.00	420.00
64	H.C. of Air Compressor 250 cfm with pneumatic breaker/ jack hammer along with accessories.	day	11,440.00	11,440.00	11,440.00	11,440.00
65	H.C. of Backhoe End Loader (6 tons)	day	13,000.00	13,000.00	13,000.00	13,000.00
66	H.C. of Bailer	day	300.00	300.00	300.00	300.00
67	H.C. of Barge (Size: 26.0m x 8.5m, Loaded Draft: 1.8m/1.2m, Carrying capacity: 150 Ton) including mobilization, demobilization and shifting at site	day	16,000.00	16,000.00	16,000.00	16,000.00
68	H.C. of Barge (Size: 30.0m x 9.0m, Loaded Draft: 1.8m/1.2m, Carrying capacity: 200 Ton) including mobilization, demobilization and shifting at site	day	16,000.00	16,000.00	16,000.00	16,000.00
69	H.C. of Barge (Size: 36.5m x 12.0m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 400 Ton) including mobilization, demobilization and shifting at site	day	22,000.00	22,000.00	22,000.00	22,000.00
70	H.C. of Barge (Size: 38.0m x 13.5m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 500 Ton) including mobilization, demobilization and shifting at site	day	22,000.00	22,000.00	22,000.00	22,000.00
71	H.C. of Barge (Size: 38.0m x 9.0m, Loaded Draft: 2.0m/1.37m, Carrying capacity: 300 Ton) including mobilization, demobilization and shifting at site	day	18,000.00	18,000.00	18,000.00	18,000.00
72	H.C. of Bitumen Heater & Decanter	day	2,200.00	2,200.00	2,200.00	2,200.00
73	H.C. of Casing	day	260.00	260.00	260.00	260.00
74	H.C. of Chain Hoist (3 tons)	day	1,000.00	1,000.00	1,000.00	1,000.00
75	H.C. of Chain Pulley (1.5 ton)	day	500.00	500.00	500.00	500.00
76	H.C. of Concrete Block (Size: 1.0m x 1.0m x 1.0m)	each/ month	833.00	833.00	833.00	833.00
77	H.C. of Concrete Mixture Machine (Capacity 0.40/ 0.28 cum)	day	1,200.00	1,200.00	1,200.00	1,200.00
78	H.C. of Crane for lifting & movement of diesel mounted hammer up to site	day	50,000.00	50,000.00	50,000.00	50,000.00
79	H.C. of Crane for lifting & movement of Hydraulic static pile driver	day	55,000.00	55,000.00	55,000.00	55,000.00
80	H.C. of Cutter	day	450.00	450.00	450.00	450.00
81	H.C. of Cutter (Geo-Textile)	day	550.00	550.00	550.00	550.00
82	H.C. of Derrick	day	400.00	400.00	400.00	400.00
83	H.C. of Distributor	day	5,500.00	5,500.00	5,500.00	5,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
84	H.C. of Driving Equipment	day	350.00	350.00	350.00	350.00
85	H.C. of Dump Truck/ Tripping Trucks	day	6,500.00	6,500.00	6,500.00	6,500.00
86	H.C. of Electric Auto Gas Cutter Set	day	500.00	500.00	500.00	500.00
87	H.C. of electric grinding machine	day	260.00	260.00	260.00	260.00
88	H.C. of Engine Boat	day	850.00	850.00	850.00	850.00
89	H.C. of Excavator (Medium Size)	day	12,000.00	12,000.00	12,000.00	12,000.00
90	H.C. of Flat Body Truck (3 tons)	day	2,000.00	2,000.00	2,000.00	2,000.00
91	H.C. of Garb	day	500.00	500.00	500.00	500.00
92	H.C. of Generator (100 KVA)	day	3,500.00	3,500.00	3,500.00	3,500.00
93	H.C. of Generator (150 KVA)	day	5,000.00	5,000.00	5,000.00	5,000.00
94	H.C. of Generator (40 KVA)	day	3,300.00	3,300.00	3,300.00	3,300.00
95	H.C. of Grinding Machine	day	260.00	260.00	260.00	260.00
96	H.C. of Grout pump with agitator & accessories	hour	416.00	416.00	416.00	416.00
97	H.C. of high bed Trailers for carrying Long leg, short leg & generator of Hydraulic static pile driver	day	17,000.00	17,000.00	17,000.00	17,000.00
98	H.C. of Jack for Lifting 50 ton lifting capacity	day	550.00	550.00	550.00	550.00
99	H.C. of KATO Mobile Crane (upto 20 Ton)	day	5,000.00	5,000.00	5,000.00	5,000.00
100	H.C. of KATO Mobile Crane Truck Mounted (20 ton)	day	13,860.00	13,860.00	13,860.00	13,860.00
101	H.C. of Lathe Machine	day	1,000.00	1,000.00	1,000.00	1,000.00
102	H.C. of Letourneau Mobile Crane (20 ton)	day	13,860.00	13,860.00	13,860.00	13,860.00
103	H.C. of Lister Engine	day	10,000.00	10,000.00	10,000.00	10,000.00
104	H.C. of Load Test Equipment and Accessories including Transportation: 126 - 500 MT capacity	set	12,500.00	12,500.00	12,500.00	12,500.00
105	H.C. of Load Test Equipment and Accessories including Transportation: Above 500 MT Capacity	set	100,000.00	100,000.00	100,000.00	100,000.00
106	H.C. of Load Test Equipment and Accessories including Transportation: up to 125 MT Capacity	set	7,000.00	7,000.00	7,000.00	7,000.00
107	H.C. of Low bed Trailers for carrying Hydraulic static pile driver	day	17,000.00	17,000.00	17,000.00	17,000.00
108	H.C. of Mastic Cooker (1 tonne capacity)	day	3,000.00	3,000.00	3,000.00	3,000.00
109	H.C. of Mechanical Road Sweeper Broom	day	1,000.00	1,000.00	1,000.00	1,000.00
110	H.C. of Mixing Machine for Aggregate	day	8,000.00	8,000.00	8,000.00	8,000.00
111	H.C. of mosaic cutter machine	day	550.00	550.00	550.00	550.00
112	H.C. of Motor Graders (14 tons)	day	11,000.00	11,000.00	11,000.00	11,000.00
113	H.C. of MS Plate, MS Angle & I-Beam etc.	kg	18.00	18.00	18.00	18.00
114	H.C. of P & H Mobile Crane (25 ton)	day	10,000.00	10,000.00	10,000.00	10,000.00
115	H.C. of Plate Compactor (LF-72)	day	13,200.00	13,200.00	13,200.00	13,200.00
116	H.C. of Plate Compactor (LF-72) [Without fuel & operator]	day	1,000.00	1,000.00	1,000.00	1,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
117	H.C. of Pneumatic Multiple Tired Roller (7 tires,6-10 tons) [including fuel & Operator]	day	6,600.00	6,600.00	6,600.00	6,600.00
118	H.C. of Pneumatic Multiple Tired Roller (7 tires,6-10 tons) [Without fuel & operator]	day	3,000.00	3,000.00	3,000.00	3,000.00
119	H.C. of Pneumatic Multiple Tired Roller (7 tires,6-10 tons) [Without fuel, with operator]	day	3,700.00	3,700.00	3,650.00	3,650.00
120	H.C. of pre-cast micro pile driving complete rig set	day	5,000.00	5,000.00	5,000.00	5,000.00
121	H.C. of pre-cast pile driving complete rig set with liner including cost of fuel and lubricant etc.	day	6,000.00	6,000.00	6,000.00	6,000.00
122	H.C. of Pulley	day	250.00	250.00	250.00	250.00
123	H.C. of Rig	day	8,500.00	8,500.00	8,500.00	8,500.00
124	H.C. of Scaffolding Materials for Deck Slab	m2	255.00	255.00	255.00	255.00
125	H.C. of Scaffolding Materials for Vertical Member	m2	227.00	227.00	227.00	227.00
126	H.C. of Sewing Machine	day	800.00	800.00	800.00	800.00
127	H.C. of Shal wood	cum	12,500.00	12,500.00	12,500.00	12,500.00
128	H.C. of Shaper Machine	day	620.00	620.00	620.00	620.00
129	H.C. of Sheating Pipe Machine	Day	2,500.00	2,500.00	2,500.00	2,500.00
130	H.C. of Shotcreting equipment	hour	500.00	500.00	500.00	500.00
131	H.C. of Stressing Jack with Pump and other accessories	Day	1,500.00	1,500.00	1,500.00	1,500.00
132	H.C. of Submersible Pump - 3 HP	day	1,200.00	1,200.00	1,200.00	1,200.00
133	H.C. of Tipper -5 cum capacity	day	16,500.00	16,500.00	16,500.00	16,500.00
134	H.C. of Tipper -5 cum capacity for lead beyond 1 km	ton.km	93.00	93.00	93.00	93.00
135	H.C. of Tower Crane	day	5,000.00	5,000.00	5,000.00	5,000.00
136	H.C. of Tractor (4WD)	day	12,000.00	12,000.00	12,000.00	12,000.00
137	H.C. of Transit Mixer 4.0/4.5 cum capacity including fuel & other related cost	day	10,000.00	10,000.00	10,000.00	10,000.00
138	H.C. of Tremie Pipe	day	600.00	600.00	600.00	600.00
139	H.C. of Tripod and Mechanical Winch Machine complete with power unit and accessories	day	3,000.00	3,000.00	3,000.00	3,000.00
140	H.C. of Tripod Stand	day	400.00	400.00	400.00	400.00
141	H.C. of Truck for carrying Counter Weights of Hydraulic static pile driver	per trip	20,000.00	20,000.00	20,000.00	20,000.00
142	H.C. of Truck for carrying diesel hammer mounted rig	day	15,200.00	15,200.00	15,200.00	15,200.00
143	H.C. of Unifloat/ Pontoon	day	1,200.00	1,200.00	1,200.00	1,200.00
144	H.C. of Vertical Drill Machine	day	150.00	150.00	150.00	150.00
145	H.C. of Vibratory (Ride On) Roller 2 Steel Drum Compactor (3-5 tons)	day	5,500.00	5,500.00	5,500.00	5,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
146	H.C. of Vibratory Road Roller (8-10 ton)	day	11,000.00	11,000.00	11,000.00	11,000.00
147	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)	day	4,400.00	4,400.00	4,400.00	4,400.00
148	H.C. of Water Pump	day	530.00	530.00	530.00	530.00
149	H.C. of Water Sealing Device	day	200.00	200.00	200.00	200.00
150	H.C. of Water Tanker (Truck Mounted)	day	3,200.00	3,200.00	3,200.00	3,200.00
151	H.C. of Welding Machine	day	750.00	750.00	750.00	750.00
152	Hire & running charges of crane with grab bucket of 0.75 cum capacity and accessories.	day	12,000.00	12,000.00	12,000.00	12,000.00
153	Hire & running charges of Joint cutting machine with 2-3 blades	day	1,500.00	1,500.00	1,500.00	1,500.00
154	Hire and running charges for horizontal/inclined rock drilling machine (Diameter of Drill Hole = 125mm)	day	20,000.00	20,000.00	20,000.00	20,000.00
155	Hire and running charges for rock drilling machine (Diameter of Drill Hole = 250 - 300mm)	day	110,000.00	110,000.00	110,000.00	110,000.00
156	Hire and running charges of Batching and Mixing Plant @ 20 cum/hour	day	44,000.00	44,000.00	44,000.00	44,000.00
157	Hire and running charges of bentonite pump	day	3,200.00	3,200.00	3,200.00	3,200.00
158	Hire and running charges of Concrete Pump (30 & 45 cum capacity)	day	22,000.00	22,000.00	22,000.00	22,000.00
159	Hire and running charges of Concrete Vibrator	day	550.00	540.00	500.00	500.00
160	Hire and running charges of Crane (Capacity 100 MT)	day	80,000.00	80,000.00	80,000.00	80,000.00
161	Hire and running charges of Crane (Capacity 50 MT)	day	19,692.00	19,692.00	19,692.00	19,692.00
162	Hire and running charges of Crane (Capacity 80 MT)	day	56,885.00	56,885.00	56,885.00	56,885.00
163	Hire and running charges of double acting diesel hammer mounted complete rig set with power unit and accessories	day	25,200.00	25,200.00	25,200.00	25,200.00
164	Hire and running charges of hydraulic piling rig Including double acting pile driving hammer complete with power unit, accessories and shifting at site	day	142,000.00	142,000.00	142,000.00	142,000.00
165	Hire and running charges of hydraulic rotary drilling equipment with power unit including 0.8m to 2.5m dia boring attachment and other accessories and shifting at site	day	37,000.00	37,000.00	37,000.00	37,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
166	Hire and running charges of hydraulic static pile driver including complete accessories and shifting at site	day	76,200.00	76,200.00	76,200.00	76,200.00
167	Hire and running charges of Jet Grout Machine with power unit including High-Pressure Jet Grout Pump, Air compressor, mixing plant and other accessories and shifting at site	Day	20,000.00	20,000.00	20,000.00	20,000.00
168	Hire and running charges of light crane for lowering reinforcement cage & operating tremie pipe	day	4,500.00	4,500.00	4,500.00	4,500.00
169	Hire and running Charges of Pile Driving Analyzer (PDA) with four (4) Strain transducers and two (2) Piezoelectric accelerometers	day	30,000.00	30,000.00	30,000.00	30,000.00
170	Hire and running charges of Reversible Drum Mixer/ Batch Mix Plant (15 cum/hr)	day	15,000.00	15,000.00	15,000.00	15,000.00
171	Hire and running charges of Skid Mounted Mechanical Table Drive Rotary Boring/ Spindle Type Rotary Drilling Machine with power unit including boring attachment and other accessories and shifting at site	Day	20,000.00	20,000.00	20,000.00	20,000.00
172	Hire Charge (H.C.) of 3 Wheel Static Road roller (8-10 ton) [without fuel & Operator]	day	3500	3500	3500	3500
173	Hire Charge (H.C.) of 3 Wheel Static Road roller (8-10 ton) [without fuel, with Operator]	day	4200	4200	4150	4150
174	Making Steel Grill	m2	548.96	548.96	548.96	548.96
175	Making Steel Shutter for formwork	m2	968.00	968.00	968.00	968.00
176	Mobilization, demobilization & accomodation including 3 nos. in-situ core cutting & testing	within 100km	17,600.00	17,600.00	17,600.00	17,600.00
177	PIT: Mobilization, demobilization of Pile Integrity Testing Equipment including 10 nos. tests	set	28,000.00	28,000.00	28,000.00	28,000.00
178	Placing and Removing of Shutter for formwork	m2	193.75	193.75	193.75	193.75
179	RHT/UPV: Beyond 100km from Dhaka	per km	27.50	27.50	27.50	27.50
180	RHT: Mobilization, demobilization & accomodation including 10 nos. RHT (Rebound Hammer Test)	within 100km	11,000.00	11,000.00	11,000.00	11,000.00
181	RHT: per impact after 1st 10 RHT	each	1,100.00	1,100.00	1,100.00	1,100.00
182	Transportation cost of 100mm Thick Concretre Hollow Block	each	3.50	3.50	3.50	3.50
183	Transportation cost of 100mm/200mm Thick Concretre Hollow Block	each	10.00	10.00	10.00	10.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
184	Transportation cost of Bricks/Solid Block	each	1.50	1.50	1.50	1.50
185	Transportation cost of Kerb Stone	each	33.00	33.00	33.00	33.00
186	Transportation cost of Roof Tiles	m2	3.80	3.80	3.80	3.80
187	Transportation cost of Tiles	m2	22.60	22.60	22.60	22.60
188	Transportation cost of Uniblock/Paving Stone etc.	each	2.20	2.20	2.20	2.20
189	UPV: Mobilization, demobilization & accomodation including 10 nos. UPV (Ultrasonic Pulse Velocity) Test	within 100km	16,500.00	16,500.00	16,500.00	16,500.00
190	UPV: per test after 1st 10 UPV	each	1,650.00	1,650.00	1,650.00	1,650.00
	Road Works Related Items					
172	12mm down graded Brick Chips	m3	4,415.00	4,408.00	4,225.00	4,225.00
173	1st Class Brick	each	13.00	13.00	12.50	12.50
174	1st Class Picked Brick Bats	m3	2,350.00	2,375.00	2,260.00	2,300.00
175	2.9mm thick MS Pipe (50mm dia)	m	532.00	532.00	532.00	532.00
176	20mm down graded Brick Chips	m3	4,257.50	4,251.00	4,075.00	4,075.00
177	25mm down graded Brick Chips	cum	4,191.00	4,185.00	4,012.50	4,012.50
178	40mm down graded Brick Chips	m3	4,031.00	4,027.20	3,865.00	3,865.00
179	50mm down graded Brick Chips	m3	3,949.50	3,946.00	3,787.50	3,787.50
180	Bitumen (Drum/Bulk) of Penetration Grade 10/20	kg	57.20	57.20	57.20	57.20
181	Bitumen (Grade 60/70) [Retail]	kg	92.00	91.00	94.00	94.00
182	Bitumen [Grade 60/70] (Bulk)	kg	89.00	87.00	91.00	91.00
183	Bitumen [Grade 80/100]	kg	87.00	87.00	88.00	88.00
184	Bitumen Drum Sheet	m2	250.00	250.00	250.00	250.00
185	Bitumen Drum Sheet	each	250.00	250.00	250.00	250.00
186	Bitumen Emulsion	kg	120.00	120.00	122.00	122.00
187	Bitumen hot sealing compound [Grade: A]	kg	110.00	110.00	110.00	110.00
188	Bitumenous coating (for damp proof course (D.P.C)	sqm	99.03	99.03	96.88	96.88
189	Borak Bamboo (50mm to 100mm)	m	45.00	45.00	45.00	45.00
190	Clay	cum	1,188.00	1,188.00	1,188.00	1,188.00
191	Coal Tar	kg	70.00	70.00	70.00	70.00
192	Crushed stone (Louva) chips (38mm down graded)	cum	3,685.00	3,740.00	3,223.00	3,619.00
193	Diesel	liter	109.00	109.00	109.00	109.00
194	Dredging & Carrying Cost of Earth	hr.	2,200.00	2,200.00	2,200.00	2,200.00
195	Empty Geo-Bag (Size-900mmX450mm)	each	95.70	95.70	95.70	95.70
196	Empty Gunny Bag	each	20.00	20.00	20.00	20.00
197	Empty Plastic Cement/Fertilizer Bag	each	11.00	11.00	11.00	11.00
198	Filling & stiching gunny bag	bag	12.00	12.00	12.00	12.00
199	Fire wood	kg	5.90	5.90	5.90	5.90
200	Geo Textile (Grade-II-DF-30-2.0mm thick)	m2	121.95	121.95	121.95	121.95
201	Geo Textile (Grade-III-DF-40-2.3mm thick)	m2	129.00	129.00	129.00	129.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
202	Geo Textile (Grade-V-DF-60-3.0mm thick)	m2	129.00	129.00	129.00	129.00
203	GI Wire Net (18 BWG) [Rhombus Size 50mm]	sqm	215.00	215.00	215.00	215.00
204	Jute Geo-Textile (JGT): Double Warp Plain Weave - 627 gsm	sqm	108.90	108.90	108.90	108.90
205	Jute Geo-Textile (JGT): Double Warp Plain Weave - 724 gsm	sqm	128.70	128.70	128.70	128.70
206	Jute Geo-Textile (JGT): Natural Additive Treated Double Warp Plain Weave - 627 gsm	sqm	152.90	152.90	152.90	152.90
207	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 500 gsm	sqm	31.90	31.90	31.90	31.90
208	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 600 gsm	sqm	35.20	35.20	35.20	35.20
209	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 700 gsm	sqm	38.50	38.50	38.50	38.50
210	Kerosene	litre	109.00	109.00	109.00	109.00
211	Local Sand (Sieve # 200 passing not more than 15%)	m3	462.00	418.00	407.00	450.00
212	Lubricant	liter	500.00	500.00	500.00	500.00
213	Ordinary Portland Cement (CEM I, 52.5N) [Bulk]	bag	520.00	520.00	520.00	520.00
214	Ordinary Portland Cement (CEM I, 52.5N) [Retail]	bag	560.00	560.00	560.00	560.00
215	Portland Composite Cement (BDS EN 197-1:2003 CEM-II/B-V) (Bulk)	bag	475.00	475.00	475.00	475.00
216	Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N) [Bulk]	bag	500.00	500.00	500.00	500.00
217	Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N) [Retail]	bag	525.00	525.00	525.00	525.00
218	Ready Mixed Road Marking Paint	liter	669.60	669.60	669.60	669.60
219	Reflectorising Glass Beads	kg	133.50	133.50	133.50	133.50
220	Royalty of Earth (Outside Municipal Area)	m3	28.00	28.00	28.00	28.00
221	Royalty of Earth (Within Municipal Area)	m3	77.69	77.69	74.16	74.16
222	Sand (FM - 0.5)	m3	540.00	546.00	540.00	540.00
223	Sand (FM - 0.8)	m3	590.00	593.00	569.00	569.00
224	Sand (FM - 1.0)	m3	750.00	756.00	731.00	731.00
225	Sand (FM - 1.2)	m3	671.00	676.00	652.00	652.00
226	Sand (FM - 1.5)	m3	1,100.00	1,050.00	1,075.00	1,060.00
227	Sand (FM - 1.8)	m3	1,341.00	1,360.00	1,335.00	1,335.00
228	Sand (FM - 2.5)	m3	1,900.00	1,836.00	1,861.00	1,840.00
229	Sand (FM - 2.8)	m3	1,900.00	1,836.00	1,861.00	1,840.00
230	Shal/sundari/gazari Bullah (150mm to 200mm)	m	262.00	262.00	256.00	256.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
231	Shal/sundari/gazari Bullah (200mm to 250mm)	m	469.00	469.00	469.00	469.00
232	Stone Boulder	m3	6,923.00	7,123.00	5,930.00	6,280.00
233	Stone Chips (12mm down graded) [LAA≤25]	cum	6,600.00	6,650.00	6,130.00	6,300.00
234	Stone Chips (12mm down graded) [LAA≤30]	m3	6,300.00	6,350.00	5,830.00	6,000.00
235	Stone Chips (12mm down graded) [LAA≤35]	cum	6,100.00	6,150.00	5,630.00	5,800.00
236	Stone Chips (16mm down graded) [LAA≤35]	cum	7,050.00	7,250.00	6,500.00	6,850.00
237	Stone Chips (16mm down graded)[LAA≤30]	cum	7,550.00	7,650.00	6,700.00	7,050.00
238	Stone Chips (20mm down graded) [LAA≤25]	cum	8,000.00	8,200.00	7,000.00	7,350.00
239	Stone Chips (20mm down graded) [LAA≤30]	m3	7,700.00	7,900.00	6,700.00	7,050.00
240	Stone Chips (20mm down graded) [LAA≤35]	cum	7,500.00	7,700.00	6,500.00	6,850.00
241	Stone Chips (25mm down graded) [LAA≤25]	cum	7,900.00	8,100.00	7,000.00	7,250.00
242	Stone Chips (25mm down graded) [LAA≤35]	cum	7,250.00	7,550.00	6,500.00	6,750.00
243	Stone Chips (25mm down graded)[LAA≤30]	cum	7,600.00	7,800.00	6,700.00	6,950.00
244	Stone Chips (38mm down graded) [LAA≤25]	cum	7,650.00	8,000.00	6,900.00	7,200.00
245	Stone Chips (38mm down graded) [LAA≤30]	cum	7,350.00	7,700.00	6,600.00	6,850.00
246	Stone Chips (38mm down graded) [LAA≤35]	cum	7,100.00	7,250.00	6,300.00	6,500.00
247	Stone Chips (50mm down graded) [LAA≤35]	cum	6,900.00	7,200.00	6,300.00	6,500.00
248	Stone Chips (6mm down graded) [LAA≤30]	m3	5,474.00	5,474.00	5,297.00	5,368.00
249	Stone Chips (6mm down graded) [LAA≤35]	cum	5,200.00	5,200.00	5,000.00	5,200.00
250	Stone Dust (2.38mm down)	cum	1,942.00	1,942.00	1,907.00	1,907.00
251	Stone Shingles (20mm down graded)	m3	5,297.00	5,314.00	5,156.00	5,227.00
252	Tarza	m2	140.00	140.00	140.00	140.00
253	Thermoplastic Compound	kg	133.50	133.50	133.50	133.50
254	Turf	m2	10.00	10.00	10.00	10.00
255	Uni-Block 30MPa, 100mm thick, Red/Black/any other Suitable Colour	each	34.00	34.00	34.00	34.00
256	Uni-Block 35MPa, 100mm thick, Red/Black/any other Suitable Colour	each	35.00	35.00	35.00	35.00
257	Uni-Block 40MPa, 100mm thick, Red/Black/any other Suitable Colour	each	36.00	36.00	36.00	36.00
258	Uni-Block 40MPa, 80mm thick, Red/Black/any other Suitable Colour	each	30.00	30.00	30.00	30.00
259	Uni-Block 45MPa, 100mm thick, Red/Black/any other Suitable Colour	each	39.00	39.00	39.00	39.00
260	Uni-Block, 100mm thick, 45MPa, Colour-Gray	each	37.00	37.00	37.00	37.00
261	Uni-Block, 30MPa, 100mm thick, Colour-Gray	each	32.00	32.00	32.00	32.00
262	Uni-Block, 35MPa, 100mm thick, Colour-Gray	each	33.00	33.00	33.00	33.00
263	Uni-Block, 40MPa, 100mm thick, Colour-Gray	each	34.00	34.00	34.00	34.00
264	Vetiver (Binna) Grass	m2	12.00	12.00	12.00	12.00
265	Wood-Babla	m3	45,000.00	45,000.00	45,000.00	45,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
266	Wood-Chittagong Teak	m3	155,386.00	151,854.00	162,414.00	162,414.00
267	Wood-Gamari	m3	67,098.50	63,567.00	70,630.00	70,630.00
268	Wood-Jam/Jarul	m3	77,693.00	74,161.00	79,458.00	79,458.00
269	Wood-Mehagoni/ Shishu	m3	70,630.00	70,630.00	70,630.00	70,630.00
270	Wood-Shal	m3	77,693.00	74,161.00	79,458.00	79,458.00
271	Wood-Sil Korai	m3	88,287.00	88,287.00	88,287.00	88,287.00
272	Wood-Sundari/ Garzen	m3	77,693.00	74,161.00	79,458.00	79,458.00
	Bridge/Culvert Related Items					
273	10 BWG wire reinforcement	kg	120.00	120.00	120.00	120.00
274	100mm dia MS pipe and wall thickness 4mm	m	1,430.00	1,430.00	1,430.00	1,430.00
275	100mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	2,695.00	2,695.00	2,695.00	2,695.00
276	100mm x 100mm MS box and wall thickness 8mm	m	2,447.50	2,447.50	2,447.50	2,447.50
277	100mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,941.50	1,941.50	1,941.50	1,941.50
278	10mm Thick MS Casing (1000mm dia)	m	22,800.00	22,800.00	22,800.00	22,800.00
279	10mm Thick MS Casing (1200mm dia)	m	27,340.00	27,340.00	27,340.00	27,340.00
280	125mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	3,520.00	3,520.00	3,520.00	3,520.00
281	125mm x 125mm MS box and wall thickness 10mm	m	3,685.00	3,685.00	3,685.00	3,685.00
282	125mm x 125mm MS box and wall thickness 8mm	m	3,025.00	3,025.00	3,025.00	3,025.00
283	12mm Thick MS Casing (1500mm dia)	m	41,000.00	41,000.00	41,000.00	41,000.00
284	12mm Thick MS Casing (1800mm dia)	m	49,170.00	49,170.00	49,170.00	49,170.00
285	150mm dia. MS pipe - 4mm thick	m	2,550.00	2,550.00	2,550.00	2,550.00
286	150mm x 150mm MS box and wall thickness 10mm	m	4,345.00	4,345.00	4,345.00	4,345.00
287	150mm x 150mm MS box and wall thickness 8mm	m	3,542.00	3,542.00	3,542.00	3,542.00
288	16mm Thick MS Casing (2000mm dia)	m	72,900.00	72,900.00	72,900.00	72,900.00
289	20 Mesh 24 BWG GI wire net	m2	269.00	269.00	269.00	269.00
290	200mm dia MS pipe-6.5mm thick	m	3,861.00	3,861.00	3,861.00	3,861.00
291	20mm Thick MS Casing (2500mm dia)	m	113,900.00	113,900.00	113,900.00	113,900.00
292	25mm dia. Stainless Steel pipe and wall thickness 2.00mm	m	357.50	357.50	357.50	357.50
293	25mm thick plywood	sqm	1,075.00	1,075.00	1,075.00	1,075.00
294	25mm x 25mm MS box and wall thickness 4mm	m	385.00	385.00	385.00	385.00
295	25mm x 25mm Stainless Steel box and wall thickness 2.00mm	m	627.00	627.00	627.00	627.00
296	300mm dia MS pipe and wall thickness 10 mm	m	7,183.00	7,183.00	7,183.00	7,183.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
297	32mm x 32mm Stainless Steel box and wall thickness 1.50mm	m	610.50	610.50	610.50	610.50
298	38mm dia. Stainless Steel pipe and wall thickness 2.50mm	m	781.00	781.00	781.00	781.00
299	38mm x 38mm Stainless Steel box and wall thickness 2.50mm	m	1,006.50	1,006.50	1,006.50	1,006.50
300	40mm x 40mm MS box and wall thickness 4mm	m	522.50	522.50	522.50	522.50
301	4mm thick 150mm dia MS pipe-5mm thick	m	2,886.40	2,886.40	2,886.40	2,886.40
302	50mm dia. MS pipe and wall thickness 4mm	m	531.50	531.50	531.50	531.50
303	50mm dia. Stainless Steel pipe and wall thickness 2.50mm	m	1,056.00	1,056.00	1,056.00	1,056.00
304	50mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	748.00	748.00	748.00	748.00
305	50mm x 50mm MS box and wall thickness 6mm	m	957.00	957.00	957.00	957.00
306	50mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,265.00	1,265.00	1,265.00	1,265.00
307	5mm thick 200mm dia MS pipe-6.5mm thick	m	3,968.80	3,968.80	3,968.80	3,968.80
308	62.5mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	1,595.00	1,595.00	1,595.00	1,595.00
309	62.5mm x 62.5mm MS box and wall thickness 6mm	m	1,155.00	1,155.00	1,155.00	1,155.00
310	62.5mm x 62.5mm Stainless Steel box and wall thickness 2.00mm	m	1,644.50	1,644.50	1,644.50	1,644.50
311	6mm Thick MS Casing (400mm dia)	m	5,320.00	5,320.00	5,320.00	5,320.00
312	6mm Thick MS Casing (500mm dia)	m	6,830.00	6,830.00	6,830.00	6,830.00
313	6mm Thick MS Casing (600mm dia)	m	8,210.00	8,210.00	8,210.00	8,210.00
314	6mm Thick MS Casing (700mm dia)	m	9,570.00	9,570.00	9,570.00	9,570.00
315	75mm dia. MS pipe and wall thickness 4mm	m	858.00	858.00	858.00	858.00
316	75mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	1,870.00	1,870.00	1,870.00	1,870.00
317	75mm diameter HDPE Sheathing Duct	m	170.00	170.00	170.00	170.00
318	75mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	1,001.00	1,001.00	1,001.00	1,001.00
319	75mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,545.50	1,545.50	1,545.50	1,545.50
320	75mm x 75mm MS box and wall thickness 8mm	m	1,892.00	1,892.00	1,892.00	1,892.00
321	8mm Thick MS Casing (800mm dia)	m	14,600.00	14,600.00	14,600.00	14,600.00
322	8mm Thick MS Casing (900mm dia)	m	16,410.00	16,410.00	16,410.00	16,410.00
323	90mm diameter HDPE Sheathing Duct	m	180.00	180.00	180.00	180.00
324	Acrylic Polymer Bonding Agent	liter	176.00	176.00	176.00	176.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
325	Adhesive for Fibre Reinforced Polymer (FRP) Laminate Strip	kg	2,360.00	2,360.00	2,360.00	2,360.00
326	Anchorage of 27K13/ 27T13 System	Set	12,870.00	12,870.00	12,870.00	12,870.00
327	Anchorage of 27K15/ 27T15 System	Set	15,730.00	15,730.00	15,730.00	15,730.00
328	Anchorage of 37K13/ 37T13 System	Set	17,160.00	17,160.00	17,160.00	17,160.00
329	Anchorage of 37K15/ 37T15 System	Set	17,875.00	17,875.00	17,875.00	17,875.00
330	Anchorage of 4K13/ 4T13 System	Set	3,850.00	3,850.00	3,850.00	3,850.00
331	Anchorage of 4K15/ 4T15 System	Set	5,005.00	5,005.00	5,005.00	5,005.00
332	Arc Type Rubber Fender of Length = 1000mm, Width = 606mm and Height = 400mm	each	275,000.00	275,000.00	275,000.00	275,000.00
333	Arc Type Rubber Fender of Length = 1580mm, Width = 1400mm and Height = 840mm	each	375,000.00	375,000.00	375,000.00	375,000.00
334	Artificial Casing Preparation	sqm	387.20	387.20	387.20	387.20
335	Bamboo Props including Top Support	each	138.00	138.00	138.00	138.00
336	Bentonite	kg	36.00	36.00	36.00	36.00
337	Bottom Rubber Seal-U type (W=75mm, T=40mm)	m	1,300.00	1,300.00	1,300.00	1,300.00
338	C.I. Shoes for the pile	kg	82.50	82.50	82.50	82.50
339	Calibration of Hydraulic Jack (Above 300 MT) with Pressure Gauge Calibration	set	33,100.00	33,100.00	33,100.00	33,100.00
340	Calibration of Hydraulic Jack (up to 300 MT) with Pressure Gauge Calibration	set	33,100.00	33,100.00	33,100.00	33,100.00
341	Carbon Fibre fabric sheet	sqm	6,800.00	6,800.00	6,800.00	6,800.00
342	CCB-C40: Concrete Cover Block with (Circular) 40 mm clear cover facility for Spiral Column, RCC Wall etc.	Nos.	11.00	11.00	11.00	11.00
343	CCB-C75: Concrete Cover Block with (Circular) 75 mm clear cover facility for Piling Work	Nos.	33.00	33.00	33.00	33.00
344	CCB-L40: Concrete Cover Block with (L-Shape) 40 mm clear cover facility for Beam/ Column Construction	Nos.	11.00	11.00	11.00	11.00
345	CCB-M100/110: Concrete Cover Block with 100/110 mm clear cover facility for top layer of slab reinforcement	Nos.	16.50	16.50	16.50	16.50
346	CCB-M20/25: Concrete Cover Block with 20/25 mm clear cover facility for Slab, Stair etc.	Nos.	2.50	2.50	2.50	2.50
347	CCB-M35/40: Concrete Cover Block with 35/40 mm clear cover facility for Beam, column, RCC Wall, Girder, Pier etc.	Nos.	6.50	6.50	6.50	6.50
348	CCB-M45/50: Concrete Cover Block with 45/50 mm clear cover facility for Beam, Column, RCC Wall, Girder, Pier etc.	Nos.	8.00	8.00	8.00	8.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
349	CCB-M60/65/75/80: Concrete Cover Block with 60/65/75/80 mm clear cover facility for Sub-structure, footing/ foundation, column, beam etc.	Nos.	13.00	13.00	13.00	13.00
350	Channel post 150 x 75 x 5 mm,1.8 long	kg	132.00	132.00	132.00	132.00
351	Chequer Plate (thickness 6mm)	sqm	121.00	121.00	121.00	121.00
352	CI Cap (double headed)	each	2,000.00	2,000.00	2,000.00	2,000.00
353	CI Cap (single headed)	each	1,800.00	1,800.00	1,800.00	1,800.00
354	Cold Galvanizing Compound with thinner, binder and resin	kg	5,600.00	5,600.00	5,600.00	5,600.00
355	Construction Water	KL	500.00	500.00	500.00	500.00
356	Cork/ Polystyrene Sheet (20mm thick)	sqm	165.00	165.00	165.00	165.00
357	Cork/ Polystyrene Sheet (25mm thick)	sqm	175.00	175.00	175.00	175.00
358	Corrosion resistant Hot-rolled Structural steel sections conforming to ASTM A 36	kg	90.00	90.00	90.00	90.00
359	Corrosion resistant Structural steel conforming to ASTM A 36	kg	80.00	80.00	80.00	80.00
360	Corrugated Galvanized Steel Sheathing Duct	m	180.00	180.00	180.00	180.00
361	Corrugated sheet,3 mm thick, "W" beam section railing	kg	165.00	165.00	165.00	165.00
362	Coupler (Min. Outer diameter 82mm & Length 300mm) including wastage 2% & carrying	each	485.00	485.00	485.00	485.00
363	CSL: Mobilization, demobilization & accomodation including 4 nos. CSL (Crosshole Sonic Logging)	set	215,000.00	215,000.00	215,000.00	215,000.00
364	CSL: per CSL after 1st 4 nos. CSL	each	44,000.00	44,000.00	44,000.00	44,000.00
365	DB: Disk Bearing assembly with duly painted with all components	MT	1,260.00	1,260.00	1,260.00	1,260.00
366	Double Headed/ Flat Footed EI Rail	kg	82.50	82.50	82.50	82.50
367	D-Type Rubber Fender of Length = 1000mm, Width = 300mm and Height = 300mm	each	41,480.00	41,480.00	41,480.00	41,480.00
368	Dust suppresion measures	km	2,100.00	2,100.00	2,100.00	2,100.00
369	Elastomeric/Neoprene Bearing	cm3	1.90	1.90	1.90	1.90
370	Electrode	pkt	900.00	900.00	900.00	900.00
371	Epoxy based primer	kg	2,250.00	2,250.00	2,250.00	2,250.00
372	Epoxy compound with accessories for preparing epoxy mortar	kg	550.00	550.00	550.00	550.00
373	Epoxy mortar	kg	302.50	302.50	302.50	302.50
374	Epoxy resin based anchoring mortar for fixing heavy loads	Cartridge	2,970.00	2,970.00	2,970.00	2,970.00
375	Epoxy Resin Saturant for Carbon Fibre Fabrics	kg	2,175.00	2,175.00	2,175.00	2,175.00
376	Epoxy resin-hardner mix for prime/seal coat conforming to ASTM C 881/ AASHTO M 235	kg	863.50	863.50	863.50	863.50

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
377	Erection at site, shifting from river bank to pier location including cost of consumable materials (i.e., electrode, LP, Oxygen etc.), welding machine, grinding machine & manpower	kg	30.00	30.00	30.00	30.00
378	Erection Charge for Decking Panel	kg	8.00	8.00	8.00	8.00
379	Erection of Structural Steel Works including equipment (Barge, Crane etc.), labour, falsework etc.	Kg	9.60	9.60	9.60	9.60
380	Fabrication Charge for Decking Panel	kg	9.00	9.00	9.00	9.00
381	Fabrication cost for Column, Beam, Rafter etc. using MS Plates including cost of electricity, LP Gas, machineries etc.	kg	24.00	24.00	24.00	24.00
382	Fabrication cost for Hot-Rolled Sections including the cost of electricity, LP gas, machinaries etc.	each	18.00	18.00	18.00	18.00
383	Fabrication cost for MS plate, Angle & I-beam for Girder/ Plate Girder including the cost of electricity, LP gas, machinaries etc.	Kg	14.40	14.40	14.40	14.40
384	Fibre reinforced Polymer (FRP) Laminate Strip	m	6,950.00	6,950.00	6,950.00	6,950.00
385	Fibre reinforced repair mortar	kg	150.00	150.00	150.00	150.00
386	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (100mm to 200mm) [With Elastic Seal]	m	462,000.00	462,000.00	462,000.00	462,000.00
387	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (100mm to 200mm) [Without Elastic Seal]	m	231,000.00	231,000.00	231,000.00	231,000.00
388	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (200 to 300mm) [With Elastic Seal]	m	924,000.00	924,000.00	924,000.00	924,000.00
389	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (200 to 300mm) [Without Elastic Seal]	m	470,000.00	470,000.00	470,000.00	470,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
390	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (up to 100mm) [With Elastic Seal]	m	284,000.00	284,000.00	284,000.00	284,000.00
391	Finger expansion joint incluing all necessary components, all steel sections protected against corrosion and installed by the manufacturer (up to 100mm) [Without Elastic Seal]	m	149,000.00	149,000.00	149,000.00	149,000.00
392	Fitting,fixing,erection,removing and welding of MS angle,Plate,Nut Bolt, Stifinner, I-Beam including Labour Cost etc.	kg	65.00	65.00	65.00	65.00
393	Fixing of Bolts (PWD)	kg	10.00	10.00	10.00	10.00
394	Fixing of Structural Bolt	kg	12.00	12.00	12.00	12.00
395	Flexible median marker, yellow color with ABS body material of standard size	each	250.00	250.00	250.00	250.00
396	Fusion Bonded Epoxy Coating (FBEC) to Reinforcing Bar as per ASTM A775 (Average rate for bars of 16mm to 50mm)	kg	8.50	8.50	8.50	8.50
397	Fusion Bonded Epoxy Coating (FBEC) to Reinforcing Bar as per ASTM A775 (Average rate for bars of 8mm to 12mm)	kg	10.00	10.00	10.00	10.00
398	Galvanized MS Flat Clamp	each	32.00	32.00	32.00	32.00
399	GI bolt 10mm diameter	each	22.00	22.00	22.00	22.00
400	GI Wire (12 BWG)	kg	120.00	120.00	120.00	120.00
401	GI Wire (22 BWG)	kg	120.00	120.00	120.00	120.00
402	GI Wire Net (12 BWG) [Rhombus Size 75mm]	m2	132.00	132.00	132.00	132.00
403	H.T. Strand	MT	152,350.00	152,350.00	152,350.00	152,350.00
404	Hard drawn steel wire fabric (Weight > 7.75 kg/sqm)	sqm	300.00	300.00	300.00	300.00
405	HDPE Pipe:125mm outside dia	m	2,973.00	2,973.00	2,973.00	2,973.00
406	HDPE Pipe:140mm outside dia	m	3,567.00	3,567.00	3,567.00	3,567.00
407	HDPE Pipe:180mm outside dia	m	6,119.00	6,119.00	6,119.00	6,119.00
408	HDPE Pipe:225mm outside dia	m	9,488.00	9,488.00	9,488.00	9,488.00
409	HDPE Pipe:280mm outside dia	m	13,047.00	13,047.00	13,047.00	13,047.00
410	HDPE Pipe:315mm outside dia	m	15,322.00	15,322.00	15,322.00	15,322.00
411	HDPE Pipe:32mm outside dia	m	691.00	691.00	691.00	691.00
412	HDPE Pipe:355mm outside dia	m	17,922.00	17,922.00	17,922.00	17,922.00
413	HDPE Pipe:400mm outside dia	m	20,847.00	20,847.00	20,847.00	20,847.00
414	HDPE Pipe:40mm outside dia	m	864.00	864.00	864.00	864.00
415	HDPE Pipe:450mm outside dia	m	24,097.00	24,097.00	24,097.00	24,097.00
416	HDPE Pipe:500mm outside dia	m	27,347.00	27,347.00	27,347.00	27,347.00
417	HDPE Pipe:50mm outside dia	m	1,080.00	1,080.00	1,080.00	1,080.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
418	HDPE Pipe:63mm outside dia	m	1,361.00	1,361.00	1,361.00	1,361.00
419	HDPE Pipe:75mm outside dia	m	1,620.00	1,620.00	1,620.00	1,620.00
420	HDPE Pipe:90mm outside dia	m	1,944.00	1,944.00	1,944.00	1,944.00
421	HDRB: High Damping Rubber Bearing assembly duly painted with all components	MT	720.00	720.00	720.00	720.00
422	High Strength Galvanized Nut-Bolt with Washer conforming to ASTM A 325M	kg	280.00	280.00	280.00	280.00
423	High Strength Galvanized Nut-Bolt with Washer conforming to ASTM A 490M	kg	400.00	400.00	400.00	400.00
424	High Strength low alloy structural steel conforming to ASTM A 709M	kg	120.00	120.00	120.00	120.00
425	High Strength Shud Shear Connectors conforming to ASTM A 108M	kg	126.00	126.00	126.00	126.00
426	High Yield strength wire	kg	220.00	220.00	220.00	220.00
427	Hinge Plate Bearing (25mm dia)	kg	300.00	300.00	300.00	300.00
428	Hinge Plate Bearing (beyond 25mm dia)	kg	340.00	340.00	340.00	340.00
429	Hire & Running Charge of Sand Balsting Equipment	day	600.00	600.00	600.00	600.00
430	Hire Charge of Structural Steel Sections/ U-Type Hot rolled sheet Pile	kg	20.70	20.70	20.70	20.70
431	Hire Charge of Water Pump (PWD)	day	640.00	640.00	640.00	640.00
432	Hot-dip Galvanizing in accordance with BS EN ISO 1461: 1999 with minimum coat thickness of 85 microns or 610 gm per square meter	kg	71.00	71.00	71.00	71.00
433	Jute Rope	kg	132.00	132.00	132.00	132.00
434	Labour Charge for bag filling, stiching, loading and unloading	each	12.00	12.00	12.00	12.00
435	Lateral load testing of single pile in accordance with ASTM D 3966 for determining safe allowable lateral load on pile. Above 50 ton capacity	Per Test	41,000.00	41,000.00	41,000.00	41,000.00
436	Lateral load testing of single pile in accordance with ASTM D 3966 for determining safe allowable lateral load on pile. Upto 50 ton capacity	Per Test	27,000.00	27,000.00	27,000.00	27,000.00
437	Lead Sheet	kg	360.00	360.00	360.00	360.00
438	Limestone Powder	kg	13.00	13.00	13.00	13.00
439	Local Carriage, load-unload for Structural Steel Works	kg	1.70	1.70	1.70	1.70
440	M.S. Clamps for Shoe	kg	93.50	93.50	93.50	93.50
441	M.S. Ribbed/ Deformed Bar (Grade 300) [Bulk]	kg	80.00	80.00	80.00	80.00
442	M.S. Ribbed/ Deformed Bar (Grade 300) [Retail]	kg	83.00	83.00	83.00	83.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
443	M.S. Ribbed/ Deformed Bar (Grade 400) [Bulk]	kg	89.00	89.00	89.00	89.00
444	M.S. Ribbed/ Deformed Bar (Grade 400) [Retail]	kg	91.00	91.00	91.00	91.00
445	M.S. Ribbed/ Deformed Bar (Grade 420) [Bulk]	kg	89.00	89.00	89.00	89.00
446	M.S. Ribbed/ Deformed Bar (Grade 420) [Retail]	kg	91.00	91.00	91.00	91.00
447	M.S. Ribbed/ Deformed Bar (Grade 500/550/600 or Above) [Bulk]	kg	87.00	87.00	87.00	87.00
448	M.S. Ribbed/ Deformed Bar (Grade 500/550/600 or Above) [Retail]	kg	89.00	89.00	89.00	89.00
449	Micro Concrete (25 kg)	bag	2,100.00	2,100.00	2,100.00	2,100.00
450	Mobilization, demobilization, arrangement of plates for loading	each	7,850.00	7,850.00	7,850.00	7,850.00
451	Modular strip expansion joint comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer (+160 to 240mm)	m	248,000.00	248,000.00	248,000.00	248,000.00
452	Modular strip expansion joint comprising of edge beams, central beam, 2 modules chloroprene seal, anchorage elements, support and control system, all steel sections protected against corrosion and installed by the manufacturer (+80 to 160mm)	m	166,000.00	166,000.00	166,000.00	166,000.00
453	Monostrand Steel Anchorage (1K13/ 1T13)	set	920.00	920.00	920.00	920.00
454	Monostrand Steel Anchorage (1K15/ 1T15)	each	1,200.00	1,200.00	1,200.00	1,200.00
455	MS Angle, Flat bar, Z bar	kg	70.00	70.00	70.00	70.00
456	MS Pipe (200mm dia)	m	3,976.50	3,976.50	3,976.50	3,976.50
457	MS Pipe (300mm dia)	m	5,940.00	5,940.00	5,940.00	5,940.00
458	MS Pipe (50mm dia, 2.35mm thick)	m	447.70	447.70	447.70	447.70
459	MS pipe driving in river bed and removal	m	270.00	270.00	270.00	270.00
460	MS Plate	kg	77.00	77.00	77.00	77.00
461	MS Plate Bearing (beyond 25mm thick)	kg	80.00	80.00	80.00	80.00
462	MS Plate Bearing (upto 25mm thick)	kg	80.00	80.00	80.00	80.00
463	MS Rod (Plain, 40 Grade)	kg	75.00	75.00	75.00	75.00
464	Nails/ Nut bolts/ Screw/ Spikes	kg	70.00	70.00	70.00	70.00
465	Non-Shrink Grout	Kg	60.00	60.00	60.00	60.00
466	Non-Shrink Grout Admixture conforming to ASTM C 1107	Kg	440.00	440.00	440.00	440.00
467	Nylon Rope	kg	154.00	154.00	154.00	154.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
468	Perforated geosynthetic pipe 150 mm dia	m	130.00	130.00	130.00	130.00
469	PIT/ CSL: Beyond 100km from Dhaka	per km	38.50	38.50	38.50	38.50
470	PIT: per PIT after 1st 10 nos. PIT	Each	1,200.00	1,200.00	1,200.00	1,200.00
471	Platform for Load Test using Brick work Crib Wall including Land Development (Earth Excavation, Sand filling, Sub-base etc.) & pile head preparation.	MT	218.66	218.66	218.66	218.66
472	Platform for Load Test using CC Block Crib Wall including Land Development (Earth Excavation, Sand filling, PCC etc.) & pile head preparation.	MT	303.53	303.53	303.53	303.53
473	Platform for Load Test using CC Block Crib Wall including Land Development (Earth Excavation, Sand filling, PCC, Bullah Palisading etc.) & pile head preparation.	MT	455.03	455.03	455.03	455.03
474	Platform for Load Test using Sand Bag Crib wall	MT	231.71	231.71	231.71	231.71
475	Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with fabricated structural steel assemblies duly painted with all components - Fixed Type	MT	450.00	450.00	450.00	450.00
476	Pot type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with fabricated structural steel assemblies duly painted with all components - Guided/ Free Type	MT	620.00	620.00	620.00	620.00
477	Prefabricated Vertical Jute Drain (PVJD) - Jute sheath with coir wick	m	137.50	137.50	137.50	137.50
478	Prefabricated Vertical Synthetic Drains (SPVD)- Non-woven polypropylene/ polyester geotextile	m	249.50	249.50	249.50	249.50
479	Pre-packed cement based polymer mortar of strength 45 Mpa at 28 days	kg	176.00	176.00	176.00	176.00
480	Pre-packed high performance cementitious Polymer materials	kg	270.00	270.00	270.00	270.00
481	Pre-packed polymer concrete based on epoxy system complete with curing compound, initiator and promoter	kg	270.00	270.00	270.00	270.00
482	Quick Setting Compound	Kg	110.00	110.00	110.00	110.00
483	Reflecting Studs	each	746.00	746.00	746.00	746.00
484	Reflectorized paint	liter	2,750.00	2,780.80	2,780.80	2,780.80
485	Reinforcement strips 60 mm wide 5 mm thick Aluminium strips	m	440.00	440.00	440.00	440.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
486	Reinforcement strips 60 mm wide 5 mm thick Copper Strips	m	880.00	880.00	880.00	880.00
487	Reinforcement strips 60 mm wide 5 mm thick Galvanised carbon steel strips	m	880.00	880.00	880.00	880.00
488	Reinforcement strips 60 mm wide 5 mm thick Glass reinforced polymer/ fibre reinforced polymer/ polymeric strips	m	880.00	880.00	880.00	880.00
489	Reinforcement strips 60 mm wide 5 mm thick Stainless steel strips	m	440.00	440.00	440.00	440.00
490	Removal of Cofferdam materials after completion of pier shaft above water level	kg	8.50	8.50	8.50	8.50
491	Retro-Reflecting Sheet	sqm	2,450.00	2,450.00	2,450.00	2,450.00
492	Roller Bearing (150mm dia)	kg	130.00	130.00	130.00	130.00
493	Roller Bearing (beyond 150mm dia)	kg	155.00	155.00	155.00	155.00
494	RS Joist	kg	95.00	95.00	95.00	95.00
495	Rust & Paint Removing Solution	liter	435.00	435.00	435.00	435.00
496	Scaffolding	m2	107.64	107.64	107.64	107.64
497	Shock Tramission Unit (For Horizontal Load <= 50 MT)	MT	28,000.00	28,000.00	28,000.00	28,000.00
498	Shock Tramission Unit (For Horizontal Load >= 50 MT)	MT	21,000.00	21,000.00	21,000.00	21,000.00
499	Silica Fume in accordance with ASTM C 1240	kg	34.50	34.50	34.50	34.50
500	Spacer 150 x 75 x 5 mm channel 0.33 m long,	kg	132.00	132.00	132.00	132.00
501	Spherical type bearing assembly consisting of a metal piston supported by a disc, PTFE pads providing sliding surfaces against stainless steel mating together with fabricated structural steel assemblies duly painted with all components	MT	900.00	900.00	900.00	900.00
502	Stackyard Rent	m3	7.00	7.00	7.00	7.00
503	Steel Helmet and Cushion block on top of casing head during driving	kg	80.00	80.00	80.00	80.00
504	Steel Props with Adjustable Mechanism including Top & Bottom Plate	set	1,700.00	1,700.00	1,700.00	1,700.00
505	Stopper/MS Seal (15mm X 19mm)	kg	120.00	120.00	120.00	120.00
506	Supply of complete assembly of strip seal expansion joint comprising of edge beams, anchorage, strip seal element and complete accessories as per approved specifications and drawings.	m	33,660.00	33,660.00	33,660.00	33,660.00
507	Synthetic Geogrids as per approved design and specifications	sqm	198.00	198.00	198.00	198.00
508	Temporary Toilet Facility at site	each	10,500.00	10,500.00	10,500.00	10,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
509	Test fee for Anchorage of Multi-Strand System	set	99,000.00	99,000.00	99,000.00	99,000.00
510	Test fee for Elastomeric/ Neoprene bearings	each	27,800.00	27,800.00	27,800.00	27,800.00
511	Test Report Preparation	set	6,500.00	6,500.00	6,500.00	6,500.00
512	Thinner for anti corrosive red oxide paint	Liter	195.00	195.00	195.00	195.00
513	Timber for Formwork	m3	19,423.00	19,423.00	19,423.00	19,423.00
514	Unbonded Monostrand	MT	155,000.00	155,000.00	155,000.00	155,000.00
515	Waste Disposal Facility	each	10,500.00	10,500.00	10,500.00	10,500.00
516	Water based Concrete Curing Compound conforming to ASTM C 309/AASHTO M 148	Liter	440.00	440.00	440.00	440.00
517	Wing Type Rubber Fender of Length = 1000mm, Width = 600mm and Height = 300mm	each	65,000.00	65,000.00	65,000.00	65,000.00
518	Woven PVC Cloth	sqm	30.00	30.00	30.00	30.00
	Building Works Related Items					
519	6" x 6" x 4" / 150 mm x 150 mm x 100 mm fancy screen block	nos	38.00	38.00	38.00	38.00
520	8" x 2" x 2"/ 200 x 50 x 50 mm machine made klinker facing red or maroon strips	nos	18.00	18.00	18.00	18.00
521	Matt or rustic floor tiles of size 400 mm x 400 mm and min. thick 8.4 mm (country made)	sqm	936.47	936.47	936.47	936.47
522	(i) 300 mm dia 6 mm thick M.S. housing pipe welded	m	5,994.00	5,994.00	5,994.00	5,994.00
523	(ii) 300 mm dia 6 mm thick M.S. housing pipe seamless	m	8,250.00	8,250.00	8,250.00	8,250.00
524	(iv) 400 mm dia 6 mm thick M.S. housing pipe seamless	m	11,550.00	11,550.00	11,550.00	11,550.00
525	0.18mm thick polythene sheet	m2	28.00	28.00	28.00	28.00
526	0.27 mm thick 6'-0" x 18" coloured ridging	nos	420.00	420.00	420.00	420.00
527	0.27 mm thick 6'-0" x 18" ridging	nos	360.00	360.00	360.00	360.00
528	0.45 mm thick C.I. sheet: by Weight	M. ton	79,000.00	79,000.00	79,000.00	79,000.00
529	0.45 mm thick foreign made celluloid paper paper	m	32.80	32.80	32.80	32.80
530	0.47mm colour profile sheet	M. ton	145,000.00	145,000.00	145,000.00	145,000.00
531	0.6 mm thick perforated aluminium board of size 600x600 mm	sqm	947.23	947.23	947.23	947.23
532	0.6 mm thick plain aluminium board of size 600x600 mm	sqm	1,194.80	1,194.80	1,194.80	1,194.80
533	0.70 mm thick GP decking sheet of Grade 345 Mpa	M. ton	127,000.00	127,000.00	127,000.00	127,000.00
534	1 in square pipe(Anodized at any colour)	m	134.48	134.48	134.48	134.48
535	1 in square pipe(Powder coated at any colour)	m	172.20	172.20	172.20	172.20
536	1" PP-R elbow	each	18.00	19.55	19.55	19.55

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
537	1" PP-R end cap	each	16.50	10.20	10.20	10.20
538	1" PP-R Gate-valve	each	350.00	461.55	461.55	461.55
539	1" PP-R pipe (minimum wall thickness 4.4 mm)	m	121.52	121.52	121.52	121.52
540	1" PP-R plug	each	14.50	11.05	11.05	11.05
541	1" PP-R reducer	each	31.00	32.30	32.30	32.30
542	1" PP-R socket	each	19.00	14.45	14.45	14.45
543	1" PP-R tee	each	22.00	24.65	24.65	24.65
544	1" PP-R union	each	178.00	139.40	139.40	139.40
545	1.25" PP-R elbow	each	60.00	52.70	52.70	52.70
546	1.25" PP-R end cap	each	38.00	39.10	39.10	39.10
547	1.25" PP-R Gate-valve	each	650.00	544.00	544.00	544.00
548	1.25" PP-R pipe (minimum wall thickness 5.5 mm)	m	186.96	186.96	186.96	186.96
549	1.25" PP-R plug	each	37.00	14.45	14.45	14.45
550	1.25" PP-R reducer	each	67.50	54.40	54.40	54.40
551	1.25" PP-R socket	each	24.00	24.65	24.65	24.65
552	1.25" PP-R tee	each	62.00	52.70	52.70	52.70
553	1.25" PP-R union	each	340.00	238.85	238.85	238.85
554	1.5 mm thick 12 mm x 12 mm aluminium U channel	m	147.60	147.60	147.60	147.60
555	1.5 mm thick 38 mm x 18 mm aluminium U channel	m	311.60	311.60	311.60	311.60
556	1.5 mm thick corrugated fiber glass	sqm	914.94	914.94	914.94	914.94
557	1.5 mm thick fiber glass sheet ridging	m	508.40	508.40	508.40	508.40
558	1.5" PP-R elbow	each	78.00	56.10	56.10	56.10
559	1.5" PP-R end cap	each	95.00	39.10	39.10	39.10
560	1.5" PP-R Gate-valve	each	700.00	629.00	629.00	629.00
561	1.5" PP-R pipe (minimum wall thickness 6.59 mm)	m	262.40	262.40	262.40	262.40
562	1.5" PP-R plug	each	22.00	17.00	17.00	17.00
563	1.5" PP-R reducer	each	105.00	69.70	69.70	69.70
564	1.5" PP-R socket	each	45.00	29.75	29.75	29.75
565	1.5" PP-R tee	each	90.00	57.80	57.80	57.80
566	1.5" PP-R union	each	596.00	351.05	351.05	351.05
567	1.52 mm thick PVB lamination	m	820.00	820.00	820.00	820.00
568	1/2" PP-R elbow	each	7.60	8.50	8.50	8.50
569	1/2" PP-R end cap	each	7.12	7.50	7.50	7.50
570	1/2" PP-R Gate-valve	each	205.00	268.60	268.60	268.60
571	1/2" PP-R pipe (minimum wall thickness 2.8 mm)	m	49.20	49.20	49.20	49.20
572	1/2" PP-R plug	each	6.65	7.65	7.65	7.65
573	1/2" PP-R reducer	each	20.00	22.00	22.00	22.00
574	1/2" PP-R socket	each	7.50	7.65	7.65	7.65
575	1/2" PP-R tee	each	9.75	11.90	11.90	11.90

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
576	1/2" PP-R union	each	135.00	88.40	88.40	88.40
577	1/2" x 2.5" nut-bolt	set	32.00	32.00	32.00	32.00
578	10 mm clear glass	sqm	1,528.49	1,528.49	1,528.49	1,528.49
579	10 mm clear tempered glass	sqm	3,013.92	3,013.92	3,013.92	3,013.92
580	10 mm thick clear glass	sqm	1,528.49	1,528.49	1,528.49	1,528.49
581	10 mm thick tempered glass	sqm	4,197.96	4,197.96	4,197.96	4,197.96
582	10" size Secature	each	650.00	650.00	650.00	650.00
583	100 mm "Y" or "T-Y" plastic cleanout	each	350.00	350.00	350.00	350.00
584	100 mm Brass handle	each	200.00	200.00	200.00	200.00
585	100 mm dia 2.5 mm thick stainless steel bridge type strainer	m	6,580.00	6,580.00	6,580.00	6,580.00
586	100 mm dia 2.5 mm thick stainless steel strainer of continuous slot	m	8,737.00	8,737.00	8,737.00	8,737.00
587	100 mm dia Class D PVC strainer	m	692.65	692.65	692.65	692.65
588	100 mm dia Class D PVC pipe	m	531.00	531.00	531.00	531.00
589	100 mm dia Class E PVC pipe	m	791.00	791.00	791.00	791.00
590	100 mm dia Class E PVC strainer	m	858.62	858.62	858.62	858.62
591	100 mm dia G.I. check-valve	each	5,400.00	5,400.00	5,400.00	5,400.00
592	100 mm dia G.I. globe-valve	each	6,900.00	6,900.00	6,900.00	6,900.00
593	100 mm dia G.I. union	each	890.00	890.00	890.00	890.00
594	100 mm dia GI elbow	each	650.00	650.00	650.00	650.00
595	100 mm dia GI nipple	each	420.00	420.00	420.00	420.00
596	100 mm dia GI pipe	m	1,977.84	1,977.84	1,977.84	1,977.84
597	100 mm dia GI plug	each	275.00	275.00	275.00	275.00
598	100 mm dia GI reducer	each	390.00	390.00	390.00	390.00
599	100 mm dia GI socket	each	400.00	400.00	400.00	400.00
600	100 mm dia GI tee	each	820.00	820.00	820.00	820.00
601	100 mm dia PVC cap	each	400.00	400.00	400.00	400.00
602	100 mm dia uPVC bend/offset	each	195.00	195.00	195.00	195.00
603	100 mm dia uPVC Pipe: 20 ft (6m) long	m	406.72	406.72	406.72	406.72
604	100 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	230.00	230.00	230.00	230.00
605	100 mm floor drain with vertical outlet	each	1,050.00	1,050.00	1,050.00	1,050.00
606	100 mm long brass hinge	each	155.00	155.00	155.00	155.00
607	100 mm long catch hook	each	7.00	7.00	7.00	7.00
608	100 mm long hinge	each	50.00	50.00	50.00	50.00
609	100 mm long iron hinges	each	57.00	57.00	57.00	57.00
610	100 mm longs brass hinge	each	150.00	150.00	150.00	150.00
611	100 mm longs SS hinge	each	100.00	100.00	100.00	100.00
612	100 mm plastic P or S trap	each	250.00	250.00	250.00	250.00
613	100 mm SS handle	each	100.00	100.00	100.00	100.00
614	100 mm x 200 mm dia M.S. reducer	each	1,100.00	1,100.00	1,100.00	1,100.00
615	100 mm x 38 mm x 6 mm size clamp	each	16.00	16.00	16.00	16.00
616	100mm x 25 mm wall frame of 1.20 mm thick	m	451.00	451.00	451.00	451.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
617	101.35 mm, 44.45 mm bottom of minimum 1.2 mm thick (Anodized at any colour)	m	354.24	354.24	354.24	354.24
618	101.35 mm, 44.45 mm bottom of minimum 1.2 mm thick (Powder coated at any colour)	m	495.28	495.28	495.28	495.28
619	101.60 mm closure cover of 1.5 mm thick (Anodized at any colour)	m	167.28	167.28	167.28	167.28
620	101.60 mm closure cover of 1.5 mm thick (Powder coated at any colour)	m	203.36	203.36	203.36	203.36
621	101.60 mm, 12.70 mm floor bottom of 4 mm thick (Anodized at any colour)	m	459.20	459.20	459.20	459.20
622	101.60 mm, 12.70 mm floor bottom of 4 mm thick (Powder coated at any colour)	m	565.80	565.80	565.80	565.80
623	101.60 mm, 38.10 mm, 25.4 mm door handle (short) of 2.3 mm, 2.3 mm, 4.01 mm thick (Anodized at any colour)	m	636.32	636.32	636.32	636.32
624	101.60 mm, 38.10 mm, 25.4 mm door handle (short) of 2.3 mm, 2.3 mm, 4.01 mm thick (Powder coated at any colour)	m	746.20	746.20	746.20	746.20
625	101.60 mm, 42.93 mm closure section of 1.8 mm thick(Anodized at any colour)	m	439.52	439.52	439.52	439.52
626	101.60 mm, 42.93 mm closure section of 1.8 mm thick(Powder coated at any colour)	m	528.08	528.08	528.08	528.08
627	101.60 mm, 44.45 mm top & side minimum 1.2 mm thick (Anodized at any colour)	m	590.40	590.40	590.40	590.40
628	101.60 mm, 44.45 mm top & side minimum 1.2 mm thick (Powder coated at any colour)	m	642.88	642.88	642.88	642.88
629	101.60 mm, 44.45 mm wall frame of 1.5 mm thick (Anodized at any colour)	m	506.76	506.76	506.76	506.76
630	101.60 mm, 44.45 mm wall frame of 1.5 mm thick (Powder coated at any colour)	m	582.20	582.20	582.20	582.20
631	110 mm dia HDPE pipe	m	724.88	724.88	724.88	724.88
632	110 mm dia HDPE pipe for under-ground	m	734.72	734.72	734.72	734.72
633	110 mm HDPE plain bend	each	1,155.00	1,155.00	1,155.00	1,155.00
634	110 mm HDPE plain Bend for under-ground	each	651.00	651.00	651.00	651.00
635	110 mm HDPE plain tee/T-Y	each	1,650.00	1,650.00	1,650.00	1,650.00
636	110 mm HDPE plain Tee/T-Y for under-ground	each	835.00	835.00	835.00	835.00
637	114 mm dia uPVC elbow	each	202.00	202.00	202.00	202.00
638	114 mm dia uPVC pipe	m	410.00	410.00	410.00	410.00
639	114 mm dia uPVC socket	each	160.00	160.00	160.00	160.00
640	114 mm dia uPVC tee	each	320.00	320.00	320.00	320.00
641	12 BWG barbed wire	M. ton	120,000.00	120,000.00	120,000.00	120,000.00
642	12 mm Thick MDF Board	sqm	484.38	484.38	484.38	484.38
643	12 mm (1/2") down grade stone chips	cum	6,300.20	6,350.34	5,830.15	6,000.02
644	12 mm clear glass	sqm	2,098.98	2,098.98	2,098.98	2,098.98

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
645	12 mm clear tempered glass	sqm	4,305.60	4,305.60	4,305.60	4,305.60
646	12 mm CP concealed special moving sink cock	each	1,436.00	1,436.00	1,436.00	1,436.00
647	12 mm CP concealed super quality moving sink cock	each	1,268.00	1,268.00	1,268.00	1,268.00
648	12 mm CP open Bib Cock	each	695.00	695.00	695.00	695.00
649	12 mm CP Two in One Bib Cock	each	1,400.00	1,400.00	1,400.00	1,400.00
650	12 mm dia CP Concealed Stop Cock	each	835.00	835.00	835.00	835.00
651	12 mm dia CPVC faucet elbow	each	26.00	26.00	26.00	26.00
652	12 mm dia CPVC pipe	m	88.56	88.56	88.56	88.56
653	12 mm dia CPVC plain elbow	each	28.00	28.00	28.00	28.00
654	12 mm dia CPVC plain socket	each	20.00	20.00	20.00	20.00
655	12 mm dia CPVC plain tee	each	36.00	36.00	36.00	36.00
656	12 mm dia CPVC thread plug	each	6.00	6.00	6.00	6.00
657	12 mm dia G.I. check-valve	each	280.00	280.00	280.00	280.00
658	12 mm dia G.I. float-valve	each	250.00	250.00	250.00	250.00
659	12 mm dia G.I. globe-valve	each	315.00	315.00	315.00	315.00
660	12 mm dia G.I. union	each	45.00	45.00	45.00	45.00
661	12 mm dia GI elbow	each	28.00	28.00	28.00	28.00
662	12 mm dia GI nipple	each	23.00	23.00	23.00	23.00
663	12 mm dia GI pipe	m	223.04	223.04	223.04	223.04
664	12 mm dia GI plug	each	12.00	12.00	12.00	12.00
665	12 mm dia GI socket	each	18.50	18.50	18.50	18.50
666	12 mm dia GI tee	each	35.00	35.00	35.00	35.00
667	12 mm dia nut-bolt	each	12.00	12.00	12.00	12.00
668	12 mm dia uPVC faucet elbow	each	10.00	10.00	10.00	10.00
669	12 mm dia uPVC pipe	m	41.82	41.82	41.82	41.82
670	12 mm dia uPVC plain elbow	each	8.00	8.00	8.00	8.00
671	12 mm dia uPVC plain socket	each	7.50	7.50	7.50	7.50
672	12 mm dia uPVC plain Tee	each	10.00	10.00	10.00	10.00
673	12 mm dia uPVC thread plug	each	5.20	5.20	5.20	5.20
674	12 mm dia water pressure reducing valve (MS)	each	1,950.00	1,950.00	1,950.00	1,950.00
675	12 mm I bolt with heal side washer and clamp	set	157.00	157.00	157.00	157.00
676	12 mm MS Plate Grinding to V bevel top & bott	m	172.20	172.20	167.28	167.28
677	12 mm or 19 mm dia ball cock for water tank	each	180.00	180.00	180.00	180.00
678	12 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	sqm	4,090.32	4,090.32	4,090.32	4,090.32
679	12 mm thick commercial veneer	sqm	785.77	785.77	785.77	785.77
680	12 mm thick fire rated gypsum board	sqm	538.20	538.20	538.20	538.20

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
681	12 mm thick granite stone(Indian/equivalent)	sqm	4,305.60	4,305.60	4,305.60	4,305.60
682	12 mm thick granite stone(Italian/equivalent)	sqm	5,382.00	5,382.00	5,382.00	5,382.00
683	12 mm thick gypsum board	sqm	452.09	452.09	452.09	452.09
684	12 mm thick laminated vinyl board : 550 kg/m3	sqm	731.95	731.95	731.95	731.95
685	12 mm thick marble stone, Indian superior quality	sqm	4,413.24	4,413.24	4,413.24	4,413.24
686	12 mm thick marble stone, Italian or equivalent	sqm	6,458.40	6,458.40	6,458.40	6,458.40
687	12 mm thick Myanmar(Burma) Teak veneered board : 550kg/m3	sqm	947.23	947.23	947.23	947.23
688	12 mm thick Plain Particle board : 550kg/m3	sqm	430.56	430.56	441.32	441.32
689	12 mm thick solid PVC board	sqm	1,227.10	1,227.10	1,227.10	1,227.10
690	12 mm x 12 mm SS hollow (1.5 mm thick) bar	m	157.44	157.44	157.44	157.44
691	125 mm dia convex cast iron grating on rain water down pipe (roof top)	each	400.00	400.00	400.00	400.00
692	125 mm dia PVC housing pipe Class D	m	1,002.00	1,002.00	1,002.00	1,002.00
693	125 mm dia PVC housing pipe Class E	m	1,192.00	1,192.00	1,192.00	1,192.00
694	125 mm M.S. hinges	each	70.00	70.00	70.00	70.00
695	125 mm x 50 mm PVC reducer	each	849.00	849.00	849.00	849.00
696	125mm x 50 mm aluminium box section	m	1,121.76	1,121.76	1,121.76	1,121.76
697	12mm thick BT ply board	sqm	1,237.86	1,237.86	1,237.86	1,237.86
698	12mm thick Garjan ply board	sqm	839.59	839.59	839.59	839.59
699	12mm thick Plain Particle board	m2	430.00	430.00	430.00	430.00
700	13 mm/1/2" dia G.I. pipe	m	200.08	200.08	200.08	200.08
701	14" long 20mm dia solid SS hasp bolt	each	500.00	500.00	500.00	500.00
702	14-22 mm thick natural Kota stone (Indian or equivalent)	sqm	2,906.28	2,906.28	2,906.28	2,906.28
703	15 mm thick acoustic Mineral fiber board (Asian standard)	sqm	645.84	645.84	645.84	645.84
704	15 mm thick acoustic Mineral fiber board (European standard)	sqm	2,368.08	2,368.08	2,368.08	2,368.08
705	15.62 mm socket bolt	each	62.00	62.00	62.00	62.00
706	15.75 mm, 14.81mm fixed glass protector bit of 0.99 mm thick (Anodized at any colour)	m	62.32	62.32	62.32	62.32
707	15.75 mm, 14.81mm fixed glass protector bit of 0.99 mm thick (Powder coated at any colour)	m	75.44	75.44	75.44	75.44
708	15.87 mm, 27.00 mm casement glass clip of 1.245 mm thick(Anodized at any colour)	m	95.12	95.12	95.12	95.12

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
709	15.87 mm, 27.00 mm casement glass clip of 1.245 mm thick(Powder coated at any colour)	m	109.88	109.88	109.88	109.88
710	150 long clamp: Iron	each	13.00	13.00	13.00	13.00
711	150 mm Brass handle	each	100.00	100.00	100.00	100.00
712	150 mm dia 2.5 mm thick stainless steel bridge type strainer	m	11,005.00	11,005.00	11,005.00	11,005.00
713	150 mm dia 4.85 mm thick G.I. pipe	m	2,950.00	2,950.00	2,950.00	2,950.00
714	150 mm dia 6 mm thick M.S. housing pipe seamless	m	3,850.00	3,850.00	3,850.00	3,850.00
715	150 mm dia and 4 mm thick M.S. pipe	m	2,550.00	2,550.00	2,550.00	2,550.00
716	150 mm dia Class D PVC strainer	m	1,544.67	1,544.67	1,544.67	1,544.67
717	150 mm dia Class D PVC pipe	m	1,436.00	1,436.00	1,436.00	1,436.00
718	150 mm dia Class E PVC pipe	m	1,759.00	1,759.00	1,759.00	1,759.00
719	150 mm dia Class E PVC strainer	m	1,873.50	1,873.50	1,873.50	1,873.50
720	150 mm dia PVC cap	each	888.00	888.00	888.00	888.00
721	150 mm dia PVC housing pipe Class D	m	1,679.00	1,679.00	1,679.00	1,679.00
722	150 mm dia PVC housing pipe Class E	m	2,055.00	2,055.00	2,055.00	2,055.00
723	150 mm dia RCC pipe (stone-chips, 40 mm thickness. 6'-0" long)	each	1,160.00	1,160.00	1,160.00	1,160.00
724	150 mm dia stainless steel strainer of continuous slot	m	14,600.00	14,600.00	14,600.00	14,600.00
725	150 mm dia uPVC bend/offset/cowl	each	375.00	375.00	375.00	375.00
726	150 mm dia uPVC for under-ground	m	557.60	557.60	557.60	557.60
727	150 mm dia uPVC Pipe: 20 ft (6m) long	m	862.64	862.64	862.64	862.64
728	150 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	403.00	403.00	403.00	403.00
729	150 mm long brass tower bolt	each	400.00	400.00	400.00	400.00
730	150 mm long catch hook	each	9.00	9.00	9.00	9.00
731	150 mm long catch hooks	each	15.00	15.00	15.00	15.00
732	150 mm long clamp	each	37.00	37.00	37.00	37.00
733	150 mm long SS socket bolt	each	200.00	200.00	200.00	200.00
734	150 mm SS handle	each	70.00	70.00	70.00	70.00
735	150 mm x 300 mm dia 6 mm thick M.S. reducer	each	2,420.00	2,420.00	2,420.00	2,420.00
736	150 mm x 75 mm PVC reducer	each	1,236.00	1,236.00	1,236.00	1,236.00
737	150mmx 38mm ss hinges	each	2,500.00	2,500.00	2,500.00	2,500.00
738	15mm thick Perforated wooden acoustic panel	sqm	3,875.04	3,875.04	3,875.04	3,875.04
739	15mm thick wooden grooved fire retardent acoustic panel	sqm	4,090.32	4,090.32	4,090.32	4,090.32
740	15mm thick wooden grooved moisture proof acoustic panel	sqm	3,982.68	3,982.68	3,982.68	3,982.68
741	15mm thick wooden grooved standard acoustic panel	sqm	3,767.40	3,767.40	3,767.40	3,767.40

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
742	16 gauge thick 50 mm x 38 mm ss hollow box	m	885.60	885.60	885.60	885.60
743	16 gauge thick 50 mm x 50 mm ss hollow box	m	1,049.60	1,049.60	1,049.60	1,049.60
744	1'-6'' Long 25 mm SS Handle	each	450.00	450.00	450.00	450.00
745	16 mm I bolt with heal side washer and clamp	set	178.00	178.00	178.00	178.00
746	16 mm steel wire	m	126.00	126.00	126.00	126.00
747	16 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	sqm	4,520.88	4,520.88	4,520.88	4,520.88
748	16 mm thick marble stone, Indian superior quality	sqm	4,628.52	4,628.52	4,628.52	4,628.52
749	16.54 mm, 15.49 mm Door glass bit of 0.99 mm thick (Anodized at any colour)	m	62.32	62.32	62.32	62.32
750	16.54 mm, 15.49 mm Door glass bit of 0.99 mm thick (Powder coated at any colour)	m	67.24	67.24	67.24	67.24
751	160 mm dia HDPE pipe	m	1,328.40	1,328.40	1,328.40	1,328.40
752	160 mm dia HDPE pipe for under-ground	m	1,328.40	1,328.40	1,328.40	1,328.40
753	160 mm HDPE plain bend	each	1,790.00	1,790.00	1,790.00	1,790.00
754	160 mm HDPE plain bend for under-ground	each	1,052.00	1,052.00	1,052.00	1,052.00
755	160 mm HDPE plain tee/T-Y	each	2,520.00	2,520.00	2,520.00	2,520.00
756	160 mm HDPE plain Tee/T-Y for under-ground	each	1,195.00	1,195.00	1,195.00	1,195.00
757	16'-0" long muli bamboo (for split)	each	140.00	140.00	140.00	140.00
758	17.40 mm, 31.78 mm bottom cover of minimum 1.2 mm thick (Anodized at any colour)	m	134.48	134.48	134.48	134.48
759	17.40 mm, 31.78 mm bottom cover of minimum 1.2 mm thick (Powder coated at any colour)	m	175.48	175.48	175.48	175.48
760	18 BWG galvanized wire mesh (2 mesh per 25mm)	sqm	215.28	215.28	215.28	215.28
761	18 gauge thick 50 mm x 12 mm ss hollow box	m	623.20	623.20	623.20	623.20
762	18 mm thick granite stone (Indian/equivalent)	sqm	5,920.20	5,920.20	5,920.20	5,920.20
763	18 mm thick granite stone (Italian/equivalent)	sqm	6,996.60	6,996.60	6,996.60	6,996.60
764	18 mm thick marble stone, Indian standard quality (Bansowara/ Indian grey/ Indian pink or equivalent)	sqm	4,951.44	4,951.44	4,951.44	4,951.44
765	18 mm thick marble stone, Indian superior quality	sqm	5,489.64	5,489.64	5,489.64	5,489.64
766	18 mm thick marble stone, Italian or equivalent	sqm	6,996.60	6,996.60	6,996.60	6,996.60

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
767	18 mm thick Myanmar(Burma) Teak veneered board	sqm	1,184.04	1,184.04	1,184.04	1,184.04
768	18/20/22 BWG MS Sheet/plate	kg	77.00	77.00	77.00	77.00
769	18mm PVC edging	sqm	32.29	32.29	32.29	32.29
770	18mm thick B.T. Marine ply board	sqm	2,045.16	2,045.16	2,045.16	2,045.16
771	18mm thick BT ply board	sqm	1,560.78	1,560.78	1,560.78	1,560.78
772	18mm thick Garjan ply board	sqm	1,184.04	1,184.04	1,184.04	1,184.04
773	18mm thick HPL board	sqm	4,036.50	4,036.50	4,036.50	4,036.50
774	19 mm (3/4") down grade crushed stone chips	cum	7,700.08	7,900.32	6,700.31	7,050.29
775	19 mm dia CPVC pipe	m	137.76	137.76	137.76	137.76
776	19 mm dia CPVC plain elbow	each	55.00	55.00	55.00	55.00
777	19 mm dia CPVC plain socket	each	18.00	18.00	18.00	18.00
778	19 mm dia CPVC plain tee	each	58.00	58.00	58.00	58.00
779	19 mm dia plastic hose pipe	m	59.04	59.04	59.04	59.04
780	19 mm dia uPVC pipe	m	55.76	55.76	55.76	55.76
781	19 mm dia uPVC plain elbow	each	12.50	12.50	12.50	12.50
782	19 mm dia uPVC plain socket	each	8.00	8.00	8.00	8.00
783	19 mm dia uPVC plain tee	each	13.20	13.20	13.20	13.20
784	19 mm dia water pressure reducing valve (Brass double net)	each	3,176.00	3,176.00	3,176.00	3,176.00
785	19 mm dia water pressure reducing valve (MS)	each	2,620.00	2,620.00	2,620.00	2,620.00
786	19 mm x 19 mm x 0.5 mm G.I. angle	m	85.28	85.28	85.28	85.28
787	19 mm x 19 mm x 1.5 mm SS angle (grade A201)	m	462.48	462.48	462.48	462.48
788	19 mm x 19 mm x 1.5 mm SS angle (grade A304)	m	613.36	613.36	613.36	613.36
789	19 mm x 19 mm x 3 mm SS angle (grade A201)	m	242.72	242.72	242.72	242.72
790	19 mm x 19 mm x 3 mm SS angle (grade A304)	m	321.44	321.44	321.44	321.44
791	19 mm x 3 mm SS flat bar (grade A201)	m	127.92	127.92	127.92	127.92
792	19 mm x 3 mm SS flat bar (grade A304)	m	168.92	168.92	168.92	168.92
793	19 mm/0.75" dia M.S. pipe	m	216.48	216.48	216.48	216.48
794	19 mm/3/4" dia G.I. pipe	m	268.96	268.96	268.96	268.96
795	190 mm x 190 mm size glass bricks	each	370.00	370.00	370.00	370.00
796	19mm x 12 mm dia CPVC reduced elbow	each	58.00	58.00	58.00	58.00
797	19mm x 12 mm dia CPVC reduced tee	each	80.00	80.00	80.00	80.00
798	19mm x 12 mm dia uPVC reduced elbow	each	30.00	30.00	30.00	30.00
799	19mm x 12 mm dia uPVC reduced tee	each	30.00	30.00	30.00	30.00
800	1st Class 10 Holes Machine Made 9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm Size Ceramic Brick	each	19.90	19.90	19.90	19.90
801	2" Magnet	each	45.00	45.00	45.00	45.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
802	2" PP-R elbow	each	140.00	133.45	133.45	133.45
803	2" PP-R end cap	each	145.00	95.20	95.20	95.20
804	2" PP-R Gate-valve	each	900.00	986.00	986.00	986.00
805	2" PP-R pipe (minimum wall thickness 8.6 mm)	m	413.28	413.28	413.28	413.28
806	2" PP-R plug	each	22.00	18.70	18.70	18.70
807	2" PP-R reducer	each	132.00	66.30	66.30	66.30
808	2" PP-R socket	each	62.00	65.45	65.45	65.45
809	2" PP-R tee	each	150.00	164.90	164.90	164.90
810	2" PP-R union	each	732.00	447.95	447.95	447.95
811	2" Screw	pack	115.00	115.00	115.00	115.00
812	2.44 m x 1.22 m size hard board	nos	600.00	600.00	600.00	600.00
813	2.91 mm wall thick 38 mm dia G.I. pipe	m	650.00	650.00	650.00	650.00
814	20 mesh 24 BWG wire mesh	sqm	269.10	269.10	269.10	269.10
815	20 mm Aluminium pipe(Anodized at any colour)	m	311.60	391.96	391.96	391.96
816	20 mm dia CP Concealed Stop Cock	each	875.00	875.00	875.00	875.00
817	20 mm dia G.I. check-valve	each	340.00	340.00	340.00	340.00
818	20 mm dia G.I. float-valve	each	350.00	350.00	350.00	350.00
819	20 mm dia G.I. globe-valve	each	365.00	365.00	365.00	365.00
820	20 mm dia G.I. union	each	70.00	70.00	70.00	70.00
821	20 mm dia GI elbow	each	45.00	45.00	45.00	45.00
822	20 mm dia GI nipple	each	30.00	30.00	30.00	30.00
823	20 mm dia GI pipe	m	291.92	291.92	291.92	291.92
824	20 mm dia GI plug	each	15.00	15.00	15.00	15.00
825	20 mm dia GI reducer	each	40.00	40.00	40.00	40.00
826	20 mm dia GI socket	each	32.00	32.00	32.00	32.00
827	20 mm dia GI tee	each	55.00	55.00	55.00	55.00
828	20 mm dia SS end socket	each	13.00	13.00	13.00	13.00
829	20 mm dia SS pipe holder	each	125.00	125.00	125.00	125.00
830	20 mm dia stainless steel (1 mm thick) pipe	m	229.60	229.60	229.60	229.60
831	20 mm dia stainless steel (2 mm thick) pipe	m	249.28	249.28	249.28	249.28
832	20 mm to 25 mm thick machine made cement pavement tiles(country made)	sqm	538.20	538.20	538.20	538.20
833	20 mm x 50 mm glass strip	m	32.80	32.80	32.80	32.80
834	200 mm dia 2.5 mm thick stainless steel bridge type strainer	m	11,500.00	11,500.00	11,500.00	11,500.00
835	200 mm dia 2.5 mm thick stainless steel strainer of continuous slot	m	17,500.00	17,500.00	17,500.00	17,500.00
836	200 mm dia 6 mm thick G.I. pipe	m	6,200.00	6,200.00	6,200.00	6,200.00
837	200 mm dia and 6 mm thick M.S. pipe seamless	m	4,010.00	4,010.00	4,010.00	4,010.00
838	200 mm dia and 6 mm thick M.S. pipe welded	m	3,600.00	3,600.00	3,600.00	3,600.00
839	200 mm dia HDPE pipe	m	2,400.96	2,400.96	2,400.96	2,400.96

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
840	200 mm dia HDPE pipe for under-ground	m	2,400.96	2,400.96	2,400.96	2,400.96
841	200 mm dia PVC housing pipe Class D	m	2,548.00	2,548.00	2,548.00	2,548.00
842	200 mm dia PVC housing pipe Class E	m	3,074.00	3,074.00	3,074.00	3,074.00
843	200 mm dia uPVC pipe for under-ground	m	1,318.56	1,318.56	1,318.56	1,318.56
844	200 mm HDPE plain bend	each	3,255.00	3,255.00	3,255.00	3,255.00
845	200 mm HDPE plain bend for under-ground	each	1,980.00	1,980.00	1,980.00	1,980.00
846	200 mm HDPE plain tee/T-Y	each	2,960.00	2,960.00	2,960.00	2,960.00
847	200 mm HDPE plain tee/T-Y for under-ground	each	2,960.00	2,960.00	2,960.00	2,960.00
848	200 mm long brass socket bolt	each	300.00	300.00	300.00	300.00
849	200 mm long catch hook	each	11.00	11.00	11.00	11.00
850	200 mm long SS socket bolt	each	220.00	220.00	220.00	220.00
851	200 mm size earthen tub	each	42.00	42.00	42.00	42.00
852	200 mm socket bolt	each	50.00	50.00	50.00	50.00
853	200 mm x 100 mm PVC reducer	each	1,850.00	1,850.00	1,850.00	1,850.00
854	200 mm x 150 mm PVC reducer	each	2,008.00	2,008.00	2,008.00	2,008.00
855	200 mm x 400 mm dia 6 mm thick M.S. reducer	each	2,530.00	2,530.00	2,530.00	2,530.00
856	200 mm x 62 mm x 12.7 mm machine made clay wall tile beige strips	nos	21.50	21.50	21.50	21.50
857	200 mm x 62 mm x 16.51 mm machine made clay wall tile red strips	nos	18.90	18.90	18.90	18.90
858	200 mm x 62 mm x 8.9 mm machine made clay wall tile red strips	nos	16.90	16.90	16.90	16.90
859	200 mm x 92 mm x 37.5 mm coloured solid cladding block	each	16.00	16.00	16.00	16.00
860	200 mm x 92 mm x 37.5 mm grey solid cladding block	each	14.00	14.00	14.00	14.00
861	20mm dia. MS pipe and wall thickness 2.65mm	m	216.50	216.50	216.50	216.50
862	20mm thick Auditorium Mineral Fiber Acoustic ceiling board (European standard)	sqm	6,027.84	6,027.84	6,027.84	6,027.84
863	20mm thick Auditorium Mineral Fiber Acoustic ceiling board(Asian standard)	sqm	3,229.20	3,229.20	3,229.20	3,229.20
864	22 BWG G.I. water can (2.5 gallon)	each	350.00	350.00	350.00	350.00
865	22 h.p. 1150 mm cutting blade power riding lawn mower machine	each	480,000.00	480,000.00	480,000.00	480,000.00
866	225 mm dia RCC pipe	m	885.60	885.60	885.60	885.60
867	225 mm dia RCC pipe (stone-chips, 40 mm thickness. 6'-0" long)	each	1,825.00	1,825.00	1,825.00	1,825.00
868	225 mm long catch hook	each	17.00	17.00	17.00	17.00
869	24 BWG wire-net	sqm	236.81	236.81	236.81	236.81
870	24 SWG GP Sheet	kg	77.00	77.00	77.00	77.00
871	241 mm x 70 mm x 12.7 mm machine made clay wall tile matt glazed textured strips	nos	34.50	34.50	34.50	34.50

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
872	241 mm x 70 mm x 12.7 mm machine made clay wall tile red strips	nos	28.50	28.50	28.50	28.50
873	25 mm brass screw	dozen	16.00	16.00	16.00	16.00
874	25 mm Aluminium pipe	m	459.20	459.20	459.20	459.20
875	25 mm dia Hole in 12 mm M.S plate	nos	52.50	52.50	51.00	51.00
876	25 mm dia CP Concealed Stop Cock	each	1,000.00	1,000.00	1,000.00	1,000.00
877	25 mm dia CPVC pipe	m	196.80	196.80	196.80	196.80
878	25 mm dia G.I. check-valve	each	480.00	480.00	480.00	480.00
879	25 mm dia G.I. float-valve	each	385.00	385.00	385.00	385.00
880	25 mm dia G.I. globe-valve	each	555.00	555.00	555.00	555.00
881	25 mm dia G.I. union	each	85.00	85.00	85.00	85.00
882	25 mm dia GI elbow	each	65.00	65.00	65.00	65.00
883	25 mm dia GI nipple	each	45.00	45.00	45.00	45.00
884	25 mm dia GI pipe	m	396.88	396.88	396.88	396.88
885	25 mm dia GI plug	each	25.00	25.00	25.00	25.00
886	25 mm dia GI reducer	each	45.00	45.00	45.00	45.00
887	25 mm dia GI socket	each	40.00	40.00	40.00	40.00
888	25 mm dia GI tee	each	70.00	70.00	70.00	70.00
889	25 mm dia SS knob	each	100.00	100.00	100.00	100.00
890	25 mm dia SS socket	each	15.00	15.00	15.00	15.00
891	25 mm dia stainless steel (1.2 mm thick) pipe	m	328.00	328.00	328.00	328.00
892	25 mm dia stainless steel (2 mm thick) pipe-(grade A201)	m	357.52	357.52	357.52	357.52
893	25 mm dia stainless steel (2 mm thick) pipe-(grade A304)	m	590.40	590.40	590.40	590.40
894	25 mm dia uPVC pipe	m	89.22	89.22	89.22	89.22
895	25 mm dia water pressure reducing valve (Brass double net)	each	4,118.00	4,118.00	4,118.00	4,118.00
896	25 mm dia water pressure reducing valve (MS)	each	3,300.00	3,300.00	3,300.00	3,300.00
897	25 mm expanded metal net	sqm	120.00	120.00	120.00	120.00
898	25 mm iron screw	dozen	9.00	9.00	9.00	9.00
899	25 mm x 19 mm dia CPVC redeuced Tee	each	141.00	141.00	141.00	141.00
900	25 mm x 19 mm dia uPVC reduced tee	each	35.00	35.00	35.00	35.00
901	25 mm x 25 mm x 3 mm SS angle (grade A201)	m	305.04	305.04	305.04	305.04
902	25 mm x 25 mm x 3 mm SS angle (grade A304)	m	403.44	403.44	403.44	403.44
903	25 mm x 25 mm x 6 mm SS angle	m	738.00	738.00	738.00	738.00
904	25 mm x 25 mm, 1.5mm thick SS square box (grade A201)	m	377.20	377.20	377.20	377.20
905	25 mm x 25 mm, 1.5mm thick SS square box (grade A304)	m	492.00	492.00	492.00	492.00
906	25 mm x 3 mm SS flat bar (grade A201)	m	167.28	167.28	167.28	167.28

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
907	25 mm x 3 mm SS flat bar (grade A304)	m	225.66	225.66	225.66	225.66
908	25 mm, 25 mm, 1.50 mm thick angle(Powder coated at any colour)	m	195.16	195.16	195.16	195.16
909	25 mm, 32 mm,3.0 mm thick fitting angle(Anodized at any colour)	m	232.88	232.88	232.88	232.88
910	25 mm, 32 mm,3.0 mm thick fitting angle(Powder coated at any colour)	m	264.04	264.04	264.04	264.04
911	250 mm dia HDPE pipe	m	3,381.68	3,381.68	3,381.68	3,381.68
912	250 mm dia HDPE pipe for under-ground	m	3,381.68	3,381.68	3,381.68	3,381.68
913	250 mm dia PVC housing pipe Class D	m	3,550.00	3,550.00	3,550.00	3,550.00
914	250 mm dia PVC housing pipe Class E	m	4,740.00	4,740.00	4,740.00	4,740.00
915	250 mm dia uPVC pipe for under-ground	m	2,118.88	2,118.88	2,118.88	2,118.88
916	250 mm HDPE plain bend	each	5,005.00	5,005.00	5,005.00	5,005.00
917	250 mm HDPE plain bend for under-ground	each	3,660.00	3,660.00	3,660.00	3,660.00
918	250 mm HDPE plain tee/T-Y	each	7,610.00	7,610.00	7,610.00	7,610.00
919	250 mm HDPE plain tee/T-Y for under-ground	each	5,440.00	5,440.00	5,440.00	5,440.00
920	250 mm long brass tower bolt	each	400.00	400.00	400.00	400.00
921	250 mm long SS tower bolt	each	150.00	150.00	150.00	150.00
922	250 mm size earthen tub	each	50.00	50.00	50.00	50.00
923	250 mm x 150 mm PVC reducer	each	3,000.00	3,000.00	3,000.00	3,000.00
924	250 x 250 mm coloured engraved CC tiles	sqm	645.84	645.84	645.84	645.84
925	250 x 250 mm grey engraved CC tiles	sqm	538.20	538.20	538.20	538.20
926	25'-0" long muli bamboo (full size)	each	240.00	240.00	240.00	240.00
927	25mm dia G.I. Pipe for structural work	m	262.40	262.40	262.40	262.40
928	25mm thick bottom aluminum tube with 1mm wall thickness	m	50.84	50.84	50.84	50.84
929	280 mm dia HDPE pipe for under-ground	m	4,680.56	4,680.56	4,680.56	4,680.56
930	280 mm dia uPVC pipe for under-ground	m	2,371.44	2,371.44	2,371.44	2,371.44
931	280 mm HDPE plain bend for under-ground	each	5,140.00	5,140.00	5,140.00	5,140.00
932	280 mm HDPE plain tee/T-Y for under-ground	each	7,110.00	7,110.00	7,110.00	7,110.00
933	3 m long 40 mm dia PVC strainer	each	400.00	400.00	400.00	400.00
934	3 mm SS Channel	m	328.00	328.00	328.00	328.00
935	3 mm thick clear glass	sqm	538.20	538.20	538.20	538.20
936	3 mm thick plastic wood	nos	720.00	720.00	720.00	720.00
937	3/4" PP-R elbow	each	11.40	11.90	11.90	11.90
938	3/4" PP-R end cap	each	11.50	7.65	7.65	7.65
939	3/4" PP-R Gate-valve	each	310.00	387.60	387.60	387.60
940	3/4" PP-R pipe (minimum wall thickness 3.5 mm)	m	77.90	77.90	77.90	77.90
941	3/4" PP-R plug	each	8.55	10.20	10.20	10.20
942	3/4" PP-R reducer	each	29.00	18.70	18.70	18.70
943	3/4" PP-R socket	each	8.50	8.50	8.50	8.50

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
944	3/4" PP-R tee	each	15.00	17.00	17.00	17.00
945	3/4" PP-R union	each	160.00	95.20	95.20	95.20
946	3/8" dia nut	each	18.00	18.00	18.00	18.00
947	3/8" dia socket	each	20.00	20.00	20.00	20.00
948	30 mm x 30 mm x 6 mm SS angle	m	787.20	787.20	787.20	787.20
949	300 long clamp: Iron	each	25.00	25.00	25.00	25.00
950	300 mm long iron cleats	each	34.00	34.00	34.00	34.00
951	300 mm dia RCC pipe	m	1,508.80	1,508.80	1,508.80	1,508.80
952	300 mm dia RCC pipe (stone-chips, 50 mm thickness. 6'-0" long)	each	3,210.00	3,210.00	3,210.00	3,210.00
953	300 mm long brass hasp bolt	each	380.00	380.00	380.00	380.00
954	300 mm size earthen plate	each	30.00	30.00	30.00	30.00
955	300 mm size earthen tub	each	70.00	70.00	70.00	70.00
956	300 mm size G.I. bucket	each	280.00	280.00	280.00	280.00
957	31.75 mm shutter divider of minimum 1.2 mm thick (Anodized at any colour)	m	223.04	223.04	223.04	223.04
958	31.75 mm shutter divider of minimum 1.2 mm thick (Powder coated at any colour)	m	268.96	268.96	268.96	268.96
959	315 mm dia HDPE pipe for under-ground	m	5,877.76	5,877.76	5,877.76	5,877.76
960	315 mm dia uPVC pipe for under-ground	m	3,096.32	3,096.32	3,096.32	3,096.32
961	315 mm HDPE plain bend for under-ground	each	7,015.00	7,015.00	7,015.00	7,015.00
962	315 mm HDPE plain tee/T-Y for under-ground	each	9,512.00	9,512.00	9,512.00	9,512.00
963	32 mm dia CPVC elbow	each	135.00	135.00	135.00	135.00
964	32 mm dia CPVC pipe	m	291.92	291.92	291.92	291.92
965	32 mm dia CPVC socket	each	65.00	65.00	65.00	65.00
966	32 mm dia CPVC tee	each	210.00	210.00	210.00	210.00
967	32 mm dia G.I. check-valve	each	650.00	650.00	650.00	650.00
968	32 mm dia G.I. float-valve	each	680.00	680.00	680.00	680.00
969	32 mm dia G.I. globe-valve	each	780.00	780.00	780.00	780.00
970	32 mm dia G.I. union	each	115.00	115.00	115.00	115.00
971	32 mm dia GI elbow	each	85.00	85.00	85.00	85.00
972	32 mm dia GI nipple	each	57.00	57.00	57.00	57.00
973	32 mm dia GI pipe	m	508.40	508.40	508.40	508.40
974	32 mm dia GI plug	each	30.00	30.00	30.00	30.00
975	32 mm dia GI reducer	each	65.00	65.00	65.00	65.00
976	32 mm dia GI socket	each	60.00	60.00	60.00	60.00
977	32 mm dia GI tee	each	102.00	102.00	102.00	102.00
978	32 mm dia PVC waste pipe for W-Basin connection	each	360.00	360.00	360.00	360.00
979	32 mm dia stainless steel (1.2 mm thick) pipe	m	459.20	459.20	459.20	459.20
980	32 mm dia uPVC elbow	each	28.00	28.00	28.00	28.00
981	32 mm dia uPVC pipe	m	114.14	114.14	114.14	114.14

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
982	32 mm dia uPVC socket	each	45.00	45.00	45.00	45.00
983	32 mm dia uPVC tee	each	34.00	34.00	34.00	34.00
984	32 mm dia water pressure reducing valve (MS)	each	5,000.00	5,000.00	5,000.00	5,000.00
985	325 mm dia boring: up to 50 m depth.	m	780.00	780.00	780.00	780.00
986	33 mm, 26.80 mm, shutter top of 1.3 mm thick (Powder coated at any colour)	m	287.00	287.00	287.00	287.00
987	33 mm, 26.80 mm, shutter top of minimum 1.2 mm thick (Anodized at any colour)	m	209.92	209.92	209.92	209.92
988	34.40 mm, 32.10 mm shutter inter lock of minimum 1.2 mm thick (Anodized at any colour)	m	278.80	278.80	278.80	278.80
989	34.40 mm, 32.10 mm shutter inter lock of minimum 1.2 mm thick (Powder coated at any colour)	m	364.08	364.08	364.08	364.08
990	350 mm dia 6 mm thick M.S. cap	each	2,200.00	2,200.00	2,200.00	2,200.00
991	350 mm dia boring: up to 50 m depth.	m	850.00	850.00	850.00	850.00
992	350 mm size earthen tub	each	95.00	95.00	95.00	95.00
993	37 mm dia CPVC elbow	each	260.00	260.00	260.00	260.00
994	37 mm dia CPVC pipe	m	452.64	452.64	452.64	452.64
995	37 mm dia CPVC socket	each	102.00	102.00	102.00	102.00
996	37 mm dia CPVC tee	each	310.00	310.00	310.00	310.00
997	37 mm dia stainless steel (1.5 mm thick) pipe-(grade A201)	m	452.64	452.64	452.64	452.64
998	37 mm dia stainless steel (1.5 mm thick) pipe-(grade A304)	m	600.24	600.24	600.24	600.24
999	37 mm dia uPVC elbow	each	26.50	26.50	26.50	26.50
1000	37 mm dia uPVC pipe	m	132.84	132.84	132.84	132.84
1001	37 mm dia uPVC socket	each	37.50	37.50	37.50	37.50
1002	37 mm dia uPVC tee	each	29.00	29.00	29.00	29.00
1003	375 mm dia RCC pipe (stone-chips, 50 mm thickness. 6'-0" long)	each	4,150.00	4,150.00	4,150.00	4,150.00
1004	38 mm brass hinge	each	7.00	7.00	7.00	7.00
1005	38 mm dia M.S. wheel for collapsible gate	each	32.00	32.00	32.00	32.00
1006	38 mm dia socket adopter	each	80.00	80.00	80.00	80.00
1007	38 mm dia water grade PVC pipe (D-Class or eqv.) including carriage	m	130.00	130.00	130.00	130.00
1008	38 mm dia water grade PVC Strainer (D-Class or eqv.) including carriage	m	160.00	160.00	160.00	160.00
1009	38 mm dia water pressure reducing valve (Brass double net)	each	7,647.00	7,647.00	7,647.00	7,647.00
1010	38 mm dia water pressure reducing valve (MS)	each	6,200.00	6,200.00	6,200.00	6,200.00
1011	38 mm G.I / MS pipe for dowel bar	m	705.20	705.20	705.20	738.00
1012	38 mm iron hinge	each	5.00	5.00	5.00	5.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1013	38 mm x 12 mm, 1.5 mm thick SS box (grade A201)	m	413.28	413.28	413.28	413.28
1014	38 mm x 12 mm, 1.5 mm thick SS box (grade A304)	m	547.76	547.76	547.76	547.76
1015	38 mm x 38 mm x 6 mm Angle (grade A304)	Kg	400.00	400.00	400.00	400.00
1016	38 mm x 38 mm x 6 mm brass	m	1,049.60	1,049.60	1,049.60	1,049.60
1017	38 mm x 38 mm x 6 mm SS angle (grade A201)	m	1,016.80	1,016.80	1,016.80	1,016.80
1018	38 mm x 38 mm, 1.5 mm thick SS box (grade A201)	m	590.40	590.40	590.40	590.40
1019	38 mm x 38 mm, 1.5 mm thick SS box (grade A304)	m	721.60	721.60	721.60	721.60
1020	38 mm/1.5" dia G.I. pipe	m	574.00	574.00	574.00	574.00
1021	38 mm/1.5" dia M.S. pipe	m	442.80	442.80	442.80	442.80
1022	38.88 mm, 36.63 mm casement outer 1.5 mm thick (Anodized at any colour)	m	186.96	186.96	186.96	186.96
1023	38.88 mm, 36.63 mm casement outer 1.5 mm thick (Powder coated at any colour)	m	218.12	218.12	218.12	218.12
1024	38mm clutch	each	22.50	20.00	20.00	20.00
1025	38mm thick rope chain bead clutch	set	73.00	73.00	73.00	73.00
1026	38mm x 38mm Aluminium frame (Wall box) of 2.0 mm(Anodized at any colour)	m	446.08	446.08	446.08	446.08
1027	38mm x 38mm Aluminium frame (Wall box) of 2.0 mm(Powder coated at any colour)	m	519.88	519.88	519.88	519.88
1028	38x12.5x0.5 mm U bar/ Furring channel	m	75.44	75.44	75.44	75.44
1029	39.09mm, 14.81mm fixed glass protector of 1.0 mm thick (Anodized at any colour)	m	88.56	88.56	88.56	88.56
1030	39.09mm, 14.81mm fixed glass protector of 1.0 mm thick (Powder coated at any colour)	m	111.52	111.52	111.52	111.52
1031	39.67 mm, 15.06 mm louver outer U-section of minimum 1.2 mm thick (Anodized at any colour)	m	127.92	127.92	127.92	127.92
1032	39.67 mm, 15.06 mm louver outer U-section of minimum 1.2 mm thick (Powder coated at any colour)	m	155.80	155.80	155.80	155.80
1033	390 mm x190 mm x112 mm sand cement Hollow Block (SCHB)	each	30.00	30.00	30.00	30.00
1034	3mm thick 2'' x 2'' plate Nos for locking arrangement	each	130.00	130.00	130.00	130.00
1035	4 mm thick 200 mm dia plate	each	1,240.00	1,240.00	1,240.00	1,240.00
1036	4" New sash (Profile)	m	514.96	528.08	528.08	528.08
1037	4" x 2" M.S. box channel with 1/8" thick M.S. sheet	m	1,213.60	1,213.60	1,213.60	1,213.60
1038	4" x 4" x 1/4" thick S.S. plate	each	200.00	200.00	200.00	200.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1039	4.5 h.p., 550 mm blade power lawn mower machine	each	44,500.00	44,500.00	44,500.00	44,500.00
1040	4.5'' x 4.5'' x 4.5''/ 112.5 mm x 112.5 mm x 112.5 mm fancy screen block	nos	29.00	29.00	29.00	29.00
1041	40 mm dia "D" grade pipe	m	131.20	131.20	131.20	131.20
1042	40 mm dia G.I. check-valve	each	790.00	790.00	790.00	790.00
1043	40 mm dia G.I. float-valve	each	850.00	850.00	850.00	850.00
1044	40 mm dia G.I. globe-valve	each	895.00	895.00	895.00	895.00
1045	40 mm dia G.I. Socket	each	110.00	110.00	110.00	110.00
1046	40 mm dia G.I. union	each	155.00	155.00	155.00	155.00
1047	40 mm dia GI elbow	each	105.00	105.00	105.00	105.00
1048	40 mm dia GI nipple	each	85.00	85.00	85.00	85.00
1049	40 mm dia GI pipe	m	649.44	649.44	649.44	649.44
1050	40 mm dia GI plug	each	45.00	45.00	45.00	45.00
1051	40 mm dia GI reducer	each	85.00	85.00	85.00	85.00
1052	40 mm dia GI socket	each	75.00	75.00	75.00	75.00
1053	40 mm dia GI tee	each	107.00	107.00	107.00	107.00
1054	40 mm dia pipe nipple	each	123.00	123.00	123.00	123.00
1055	40 mm dia SS end socket	each	18.00	18.00	18.00	18.00
1056	40 mm dia stainless steel (2 mm thick) pipe-(grade A201)	m	557.60	557.60	557.60	557.60
1057	4'-0" long cylinder	each	205.00	205.00	205.00	205.00
1058	400 mm blade Hand Lawn Mower, Model no 1403 – 16 (USA)	each	12,500.00	12,500.00	12,500.00	12,500.00
1059	400 mm dia boring: up to 50 m depth.	m	890.00	890.00	890.00	890.00
1060	400 mm dia HDPE pipe for under-ground	m	9,521.84	9,521.84	9,521.84	9,521.84
1061	400 mm HDPE plain bend for under-ground	each	14,010.00	14,010.00	14,010.00	14,010.00
1062	400 mm HDPE plain tee/T-Y for under-ground	each	18,250.00	18,250.00	18,250.00	18,250.00
1063	400 mm size earthen tub	each	165.00	165.00	165.00	165.00
1064	400 mm x 92 mm x 50 mm coloured split cladding	each	23.00	23.00	23.00	23.00
1065	400 mm x 92 mm x 50 mm grey split cladding	each	18.00	18.00	18.00	18.00
1066	42.2 mm, 13.2 mm net section of minimum 1.2 mm thickness (Anodized at any colour)	m	200.08	200.08	200.08	200.08
1067	42.2 mm, 13.2 mm net section of minimum 1.2 mm thickness (Powder coated at any colour)	m	259.12	259.12	259.12	259.12
1068	420 mm x 330 mm x 15 mm coloured facial cladding	each	38.00	38.00	38.00	38.00
1069	44 mm X 44 mm aluminium box	m	268.96	268.96	268.96	268.96
1070	44 mm, 44 mm, 1.50 mm thick box (Powder coated at any colour)	m	439.52	439.52	439.52	439.52

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1071	44.32 mm, 19.61 mm fixed bottom cover of minimum 1.2 mm thick(Anodized at any colour)	m	180.40	180.40	180.40	180.40
1072	44.32 mm, 19.61 mm fixed bottom cover of minimum 1.2 mm thick(Powder coated at any colour)	m	221.40	221.40	221.40	221.40
1073	450 mm dia 6 mm thick M.S. cap	each	1,950.00	1,950.00	1,950.00	1,950.00
1074	450 mm long metal cover connection pipe	each	112.00	112.00	112.00	112.00
1075	450 mm long plastic flexible lead (connection) pipe	each	50.00	50.00	50.00	50.00
1076	47.62 mm, 28.57 mm, 40.82 mm casement shutter of 1.9 mm thick(Anodized at any colour)	m	321.44	321.44	321.44	321.44
1077	47.62 mm, 28.57 mm, 40.82 mm casement shutter of 1.9 mm thick(Powder coated at any colour)	m	380.48	380.48	380.48	380.48
1078	49.20 mm, 25.80 mm shutter lock of minimum 1.2 mm thick (Anodized at any colour)	m	268.96	268.96	268.96	268.96
1079	49.20 mm, 25.80 mm shutter lock of minimum 1.2 mm thick (Powder coated at any colour)	m	382.12	382.12	382.12	382.12
1080	4-Bar Hinge	each	750.00	750.00	750.00	750.00
1081	4mm thick SS base plate	Kg	250.00	250.00	250.00	250.00
1082	5 mm ambushed glass	sqm	753.48	753.48	753.48	753.48
1083	5 mm clear glass	sqm	764.24	764.24	764.24	764.24
1084	5 mm clear tempered glass	sqm	1,743.77	1,743.77	1,743.77	1,743.77
1085	5 mm reflective glass	sqm	1,097.93	1,097.93	1,097.93	1,097.93
1086	5 mm reflective tempered glass	sqm	2,045.16	2,045.16	2,045.16	2,045.16
1087	5 mm thick 250 mm dia plate	each	1,400.00	1,400.00	1,400.00	1,400.00
1088	5 mm thick clear glass	sqm	764.24	764.24	764.24	764.24
1089	5 mm tinted glass	sqm	968.76	968.76	968.76	968.76
1090	5 mm tinted tempered glass	sqm	1,668.42	1,668.42	1,668.42	1,668.42
1091	5.5'' x 5.5'' x 4'' / 137.5 mm x 137.5 mm x 100 mm fancy screen block	nos	35.00	35.00	35.00	35.00
1092	50 mm dia Hole in 6 mm M.S plate	nos	125.00	125.00	125.00	125.00
1093	50 mm dia 100 mm long socket bolt	each	9.00	9.00	9.00	9.00
1094	50 mm dia 100 mm long socket bolt (SS)	each	38.00	38.00	38.00	38.00
1095	50 mm dia 150 mm long brass socket bolt	each	120.00	120.00	120.00	120.00
1096	50 mm dia 150 mm long socket bolt	each	12.50	12.50	12.50	12.50
1097	50 mm dia 150 mm long socket bolt (SS)	each	60.00	60.00	60.00	60.00
1098	50 mm dia 2.5 mm thick stainless steel bridge type strainer	m	5,660.00	5,660.00	5,660.00	5,660.00
1099	50 mm dia 2.5 mm thick stainless steel strainer of continuous slot	m	6,863.40	6,863.40	6,863.40	6,863.40

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1100	50 mm dia 200 mm long brass socket bolt	each	155.00	155.00	155.00	155.00
1101	50 mm dia 200 mm long socket bolt	each	22.00	22.00	22.00	22.00
1102	50 mm dia 250 mm long brass socket bolt	each	190.00	190.00	190.00	190.00
1103	50 mm dia brass ring	each	42.00	42.00	42.00	42.00
1104	50 mm dia C-Class water- grade pipe	m	295.20	295.20	295.20	295.20
1105	50 mm dia Class D PVC pipe	m	178.00	178.00	178.00	178.00
1106	50 mm dia Class D PVC strainer	m	196.61	196.61	196.61	196.61
1107	50 mm dia Class E PVC pipe	m	233.00	233.00	233.00	233.00
1108	50 mm dia Class E PVC strainer	m	251.18	251.18	251.18	251.18
1109	50 mm dia CPVC elbow	each	490.00	490.00	490.00	490.00
1110	50 mm dia CPVC pipe	m	688.80	688.80	688.80	688.80
1111	50 mm dia CPVC socket	each	365.00	365.00	365.00	365.00
1112	50 mm dia CPVC tee	each	650.00	650.00	650.00	650.00
1113	50 mm dia G.I. check-valve	each	1,275.00	1,275.00	1,275.00	1,275.00
1114	50 mm dia G.I. globe-valve	each	1,500.00	1,500.00	1,500.00	1,500.00
1115	50 mm dia G.I. union	each	190.00	190.00	190.00	190.00
1116	50 mm dia GI Elbow	each	150.00	150.00	150.00	150.00
1117	50 mm dia GI nipple	each	98.00	98.00	98.00	98.00
1118	50 mm dia GI pipe	m	820.00	820.00	820.00	820.00
1119	50 mm dia GI plug	each	60.00	60.00	60.00	60.00
1120	50 mm dia GI reducer	each	108.00	108.00	108.00	108.00
1121	50 mm dia GI socket	each	100.00	100.00	100.00	100.00
1122	50 mm dia GI tee	each	130.00	130.00	130.00	130.00
1123	50 mm dia iron ring	each	15.00	15.00	15.00	15.00
1124	50 mm dia PVC cap	each	100.00	100.00	100.00	100.00
1125	50 mm dia SS bend	each	62.00	62.00	62.00	62.00
1126	50 mm dia SS end socket	each	23.00	23.00	23.00	23.00
1127	50 mm dia stainless steel (2 mm thick) pipe	m	738.00	738.00	738.00	738.00
1128	50 mm dia uPVC bend/offset	each	35.00	35.00	35.00	35.00
1129	50 mm dia uPVC pipe: 20 ft (6m) long	m	153.34	153.34	153.34	153.34
1130	50 mm dia uPVC Tee/T-Y/Y (50 x 50 mm)	each	125.00	125.00	125.00	125.00
1131	50 mm dia water pressure reducing valve (Brass double net)	each	10,588.00	10,588.00	10,588.00	10,588.00
1132	50 mm dia water pressure reducing valve (MS)	each	9,200.00	9,200.00	9,200.00	9,200.00
1133	50 mm iron screw	dozen	16.00	16.00	16.00	16.00
1134	50 mm long pin hinges	each	26.00	26.00	26.00	26.00
1135	50 mm plastic "P" or "S" trap	each	390.00	390.00	390.00	390.00
1136	50 mm plastic Y or T-Y cleanout	each	180.00	180.00	180.00	180.00
1137	50 mm screw & rowel plug	each	9.00	9.00	9.00	9.00
1138	50 mm thick glass wool	sqm	2,389.61	2,389.61	2,389.61	2,389.61
1139	50 mm thick polyester/fibreglass insulation	sqm	322.92	322.92	322.92	322.92
1140	50 mm x 12 mm, 1.5 mm thick SS box	m	574.00	574.00	574.00	574.00
1141	50 mm x 150 mm dia M.S. reducer	each	825.00	825.00	825.00	825.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1142	50 mm x 18 mm, 2 mm thick SS Box	m	705.20	705.20	705.20	705.20
1143	50 mm x 25 mm x 1.5 mm SS box:(grade A201)	m	954.48	954.48	954.48	954.48
1144	50 mm x 25 mm x 1.5 mm SS box:(grade A304)	m	1,272.64	1,272.64	1,272.64	1,272.64
1145	50 mm x 38 mm, 1.5 mm thick SS box	m	934.80	934.80	934.80	934.80
1146	50 mm x 40 mm socket (reducer)	each	80.00	80.00	80.00	80.00
1147	50 mm x 5 mm SS flat bar	m	547.76	547.76	547.76	547.76
1148	50 mm x 50 mm x 1.5 mm SS box (grade A201)	m	984.00	984.00	984.00	984.00
1149	50 mm x 50 mm x 1.5 mm SS box (grade A304)	m	1,672.80	1,672.80	1,672.80	1,672.80
1150	50 mm x 50 mm x 3 mm SS angle	m	829.84	829.84	829.84	829.84
1151	50 mm x 50 mm x 5 mm SS angle	m	892.16	892.16	892.16	892.16
1152	50 mm x 6 mm SS flat bar (grade A201)	m	570.72	570.72	570.72	570.72
1153	50 mm x 6 mm SS flat bar (grade A304)	m	754.40	754.40	754.40	754.40
1154	50 mm, 25 mm, 1.5 mm thick box(Anodized at any colour)	m	362.44	362.44	362.44	362.44
1155	50 mm, 25 mm, 1.5 mm thick box(Powder coated at any colour)	m	416.56	416.56	416.56	416.56
1156	50 mm/2" dia G.I. pipe	m	705.20	705.20	705.20	705.20
1157	50 x 62 x 2 mm SS pipe post with glass holder	each	345.00	345.00	345.00	345.00
1158	50mm dia 200 mm long socket bolt (SS)	each	76.00	76.00	76.00	76.00
1159	50mm dia 2mm thick SS vertical Post	each	1,800.00	1,800.00	1,800.00	1,800.00
1160	50mm dia end cap	each	67.00	67.00	67.00	67.00
1161	50mm dia x 25mm, 2mm thick SS newel post	m	4,592.00	4,592.00	4,592.00	4,592.00
1162	50mm dia. MS pipe and wall thickness 4.00mm	m	587.40	587.40	587.40	587.40
1163	50mm x 25mm, 2 mm thick S.S. Box	m	738.00	738.00	738.00	738.00
1164	50mm X 6 mm X 2 mm angle for casement shutter(Powder coated at any colour)	m	268.96	268.96	268.96	268.96
1165	50mm x 6mm SS double plate newel post with SS knob	m	8,200.00	8,200.00	8,200.00	8,200.00
1166	51 mm, 43.99 mm door shutter top of 1.8 mm thick (Anodized at any colour)	m	482.16	482.16	482.16	482.16
1167	51 mm, 43.99 mm door shutter top of 1.8 mm thick (Powder coated at any colour)	m	554.32	554.32	554.32	554.32
1168	54 mm, 46 mm shutter side of 2.0 mm thick (Anodized at any colour)	m	455.92	455.92	455.92	455.92
1169	54 mm, 46 mm shutter side of 2.0 mm thick (Powder coated at any colour)	m	555.96	555.96	555.96	555.96
1170	55 mm rowel bolt	each	21.00	21.00	21.00	21.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1171	55.02 mm, 37.39 mm louver Z-section of 1.5 mm thick (Anodized at any colour)	m	177.12	177.12	177.12	177.12
1172	55.02 mm, 37.39 mm louver Z-section of 1.5 mm thick (Powder coated at any colour)	m	203.36	203.36	203.36	203.36
1173	55.20 mm, 13.20 mm net section of 1.5 mm thick EDF(Anodized at any colour)	m	280.44	280.44	280.44	280.44
1174	55.20 mm, 13.20 mm net section of 1.5 mm thick EDF(Powder coated at any colour)	m	321.44	321.44	321.44	321.44
1175	55.20 mm, 26.00 mm inter lock of 1.5 mm thick EDF(Anodized at any colour)	m	387.04	387.04	387.04	387.04
1176	55.20 mm, 26.00 mm inter lock of 1.5 mm thick EDF(Powder coated at any colour)	m	442.80	442.80	442.80	442.80
1177	57.15 mm, 15.88 mm grouve cover of minimum 1.2 mm thick (Anodized at any colour)	m	203.36	203.36	203.36	203.36
1178	57.15 mm, 15.88 mm grouve cover of minimum 1.2 mm thick (Powder coated at any colour)	m	265.68	265.68	265.68	265.68
1179	5mm thick Garjan ply board	sqm	538.20	538.20	538.20	538.20
1180	5-ton capacity truck-fare including loading & unloading (within 30 km radius)	trip	2,300.00	2,300.00	2,100.00	2,100.00
1181	6 mm (1/4") down grade stone chips	cum	5,473.83	5,491.48	5,297.25	5,367.88
1182	6 mm ambushed glass	sqm	1,829.88	1,829.88	1,829.88	1,829.88
1183	6 mm clear glass	sqm	968.76	968.76	968.76	968.76
1184	6 mm clear tempered glass	sqm	2,045.16	2,045.16	2,045.16	2,045.16
1185	6 mm low-E clear tempered glass	sqm	3,013.92	3,013.92	3,013.92	3,013.92
1186	6 mm MS Plate Grinding to V bevel on faces of U legs for top & bott	m	262.40	262.40	262.40	262.40
1187	6 mm reflective glass	sqm	1,237.86	1,237.86	1,237.86	1,237.86
1188	6 mm reflective tempered glass	sqm	2,012.87	2,012.87	2,012.87	2,012.87
1189	6 mm thick 150 mm dia M.S. Cap	each	1,220.00	1,220.00	1,220.00	1,220.00
1190	6 mm thick 200 mm dia M.S. Cap	each	1,560.00	1,560.00	1,560.00	1,560.00
1191	6 mm thick ASTM A572 Chequered plate	M. ton	138,000.00	138,000.00	138,000.00	138,000.00
1192	6 mm thick Fiber cement board	sqm	990.29	990.29	990.29	990.29
1193	6 mm thick plastic wood	nos	1,420.00	1,420.00	1,420.00	1,420.00
1194	6 mm thick PVC board of size 600 x 600 mm	sqm	484.38	484.38	484.38	484.38
1195	6" x 4" x 1/4" thick S.S. plate	each	225.00	225.00	225.00	225.00
1196	6" x 6" x 1/4" thick S.S. plate	each	250.00	250.00	250.00	250.00
1197	6" x 6" x 6" / 150 mm x 150 mm x 150 mm fancy screen block	nos	38.00	38.00	38.00	38.00
1198	6"/8" Glass clamp with 4" x 4" S.S. plate	each	1,200.00	1,200.00	1,200.00	1,200.00
1199	6.5 h.p., 550 mm blade power lawn mower machine	each	58,400.00	58,400.00	58,400.00	58,400.00
1200	60 mm dia uPVC pipe	m	236.16	236.16	236.16	236.16
1201	60 mm uPVC elbow	each	120.00	120.00	120.00	120.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1202	60 mm uPVC socket	each	85.00	85.00	85.00	85.00
1203	60 mm uPVC tee	each	170.00	170.00	170.00	170.00
1204	60 mm, 24.40 mm shutter bottom of minimum 1.2 mm thick (Anodized at any colour)	m	291.92	291.92	291.92	291.92
1205	60 mm, 24.40 mm shutter bottom of minimum 1.2 mm thick (Powder coated at any colour)	m	405.08	405.08	405.08	405.08
1206	60/70 grade bitumen for road work (PWD)	M. ton	89,000.00	87,000.00	91,000.00	91,000.00
1207	600 mm dia boring: up to 50 m depth.	m	1,120.00	1,120.00	1,120.00	1,120.00
1208	600 mm long C.P. double towel rail	each	945.00	945.00	945.00	945.00
1209	600 mm long C.P. single towel rail	each	500.00	500.00	500.00	500.00
1210	600 mm long C.P. towel shelf	each	1,256.00	1,256.00	1,256.00	1,256.00
1211	600 mm long metal cover connection pipe	each	140.00	140.00	140.00	140.00
1212	600 mm long plastic flexible lead (connection) pipe	each	60.00	60.00	60.00	60.00
1213	600 x 125 x 5 mm size coloured glass shelf with fancy brackets	each	1,250.00	1,250.00	1,250.00	1,250.00
1214	600 x 125 x 5 mm size white glass shelf with fancy brackets	each	600.00	600.00	600.00	600.00
1215	60mm thick Uni-Block 30MPa, Colour-Red/Black/any other Suitable Colour	each	21.00	21.00	21.00	21.00
1216	60mm thick Uni-Block 35MPa, Colour-Red/Black/any other Suitable Colour	each	22.00	22.00	22.00	22.00
1217	60mm thick Uni-Block, 25MPa, Colour-Gray	each	17.50	17.50	17.50	17.50
1218	60mm thick Uni-Block, 25MPa, Colour-Red/Black/any other Suitable Colour	each	20.00	20.00	20.00	20.00
1219	60mm thick Uni-Block, 30MPa, Colour-Gray	each	18.50	18.50	18.50	18.50
1220	60mm thick Uni-Block, 35MPa, Colour-Gray	each	19.50	19.50	19.50	19.50
1221	62 mm dia G.I. check-valve	each	2,310.00	2,310.00	2,310.00	2,310.00
1222	62 mm dia G.I. globe-valve	each	3,350.00	3,350.00	3,350.00	3,350.00
1223	62 mm dia G.I. union	each	420.00	420.00	420.00	420.00
1224	62 mm dia GI elbow	each	250.00	250.00	250.00	250.00
1225	62 mm dia GI nipple	each	200.00	200.00	200.00	200.00
1226	62 mm dia GI pipe	m	1,298.88	1,298.88	1,298.88	1,298.88
1227	62 mm dia GI plug	each	80.00	80.00	80.00	80.00
1228	62 mm dia GI reducer	each	170.00	170.00	170.00	170.00
1229	62 mm dia GI socket	each	220.00	220.00	220.00	220.00
1230	62 mm dia GI tee	each	350.00	350.00	350.00	350.00
1231	62 mm dia SS bend	each	73.00	73.00	73.00	73.00
1232	62 mm dia SS end socket	each	36.00	36.00	36.00	36.00
1233	62 mm dia stainless steel (2 mm thick) pipe	m	934.80	934.80	934.80	934.80
1234	62 mm dia water pressure reducing valve (MS)	each	16,000.00	16,000.00	16,000.00	16,000.00
1235	62 mm x 25 mm alluminium U Channel	m	574.00	574.00	574.00	574.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1236	62 mm x 25 mm x 2 mm SS Box for hand-rail	m	852.80	852.80	852.80	852.80
1237	62mm dia 2mm thick SS post with 4 Nos SS Glass holder & 1 nos railing holder	m	6,560.00	6,560.00	6,560.00	6,560.00
1238	630 mm dia HDPE pipe for under-ground	m	22,304.00	22,304.00	22,304.00	22,304.00
1239	630 mm HDPE plain bend for under-ground	each	40,100.00	40,100.00	40,100.00	40,100.00
1240	630 mm HDPE plain tee/T-Y for under-ground	each	51,000.00	51,000.00	51,000.00	51,000.00
1241	65 mm x 55 mm x 6 mm SS plate	each	173.00	173.00	173.00	173.00
1242	65.00 mm, 27.30 mm shutter topof 1.5 mm thick EDF(Anodized at any colour)	m	390.32	390.32	390.32	390.32
1243	65.00 mm, 27.30 mm shutter topof 1.5 mm thick EDF(Powder coated at any colour)	m	446.08	446.08	446.08	446.08
1244	65.30 mm, 26.00 mm shutter lock of 1.5 mm thick EDF(Anodized at any colour)	m	359.16	359.16	359.16	359.16
1245	65.30 mm, 26.00 mm shutter lock of 1.5 mm thick EDF(Powder coated at any colour)	m	411.64	411.64	411.64	411.64
1246	65mm x 55mm, 6 mm thick SS Plate	each	173.00	173.00	173.00	173.00
1247	7.14 mm spandrel of 1.5 mm thick (Anodized at any colour)	m	388.68	388.68	388.68	388.68
1248	7.14 mm spandrel of 1.5 mm thick (Powder coated at any colour)	m	452.64	452.64	452.64	452.64
1249	710 mm dia HDPE pipe for under-ground	m	29,356.00	29,356.00	29,356.00	29,356.00
1250	710 mm HDPE plain bend for under-ground	each	51,055.00	51,055.00	51,055.00	51,055.00
1251	710 mm HDPE plain tee/T-Y for under-ground	each	60,100.00	60,100.00	60,100.00	60,100.00
1252	72.20 mm, 24.65 mm shutter bottom of 1.5 mm thick EDF(Anodized at any colour)	m	423.12	423.12	423.12	423.12
1253	72.20 mm, 24.65 mm shutter bottom of 1.5 mm thick EDF(Powder coated at any colour)	m	485.44	485.44	485.44	485.44
1254	75 mm - 150 mm M.S. clamp	each	32.00	32.00	32.00	32.00
1255	75 mm dia 2.5 mm thick stainless steel bridge type strainer	m	7,680.00	7,680.00	7,680.00	7,680.00
1256	75 mm dia 2.5 mm thick stainless steel strainer of continuous slot	m	7,733.70	7,733.70	7,733.70	7,733.70
1257	75 mm dia Class D PVC strainer	m	418.07	418.07	418.07	418.07
1258	75 mm dia Class D PVC pipe	m	382.00	382.00	382.00	382.00
1259	75 mm dia Class E PVC pipe	m	493.00	493.00	493.00	493.00
1260	75 mm dia Class E PVC strainer	m	529.01	529.01	529.01	529.01
1261	75 mm dia G.I. check-valve	each	3,190.00	3,190.00	3,190.00	3,190.00
1262	75 mm dia G.I. globe-valve	each	4,280.00	4,280.00	4,280.00	4,280.00
1263	75 mm dia G.I. union	each	605.00	605.00	605.00	605.00
1264	75 mm dia GI elbow	each	450.00	450.00	450.00	450.00
1265	75 mm dia GI nipple	each	220.00	220.00	220.00	220.00
1266	75 mm dia GI pipe	m	1,364.48	1,364.48	1,364.48	1,364.48

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1267	75 mm dia GI plug	each	170.00	170.00	170.00	170.00
1268	75 mm dia GI reducer	each	190.00	190.00	190.00	190.00
1269	75 mm dia GI socket	each	280.00	280.00	280.00	280.00
1270	75 mm dia GI tee	each	400.00	400.00	400.00	400.00
1271	75 mm dia uPVC elbow	each	180.00	180.00	180.00	180.00
1272	75 mm dia uPVC pipe	m	262.40	262.40	262.40	262.40
1273	75 mm dia uPVC socket	each	90.00	90.00	90.00	90.00
1274	75 mm dia uPVC tee	each	210.00	210.00	210.00	210.00
1275	75 mm dia water pressure reducing valve (MS)	each	23,000.00	23,000.00	23,000.00	23,000.00
1276	75 mm long brass hinge	each	115.00	115.00	115.00	115.00
1277	75 mm long brass hinges	each	120.00	120.00	120.00	120.00
1278	75 mm long catch hook	each	5.00	5.00	5.00	5.00
1279	75 mm long hinge	each	27.00	27.00	27.00	27.00
1280	75 mm long Iron hinges	each	12.00	12.00	12.00	12.00
1281	75 mm longs brass hinge	each	110.00	110.00	110.00	110.00
1282	75 mm longs SS hinge	each	70.00	70.00	70.00	70.00
1283	75 mm rowel bolt	each	75.00	75.00	75.00	75.00
1284	75 mm Screw, Rowel plug & Washer	each	14.00	14.00	14.00	14.00
1285	75 mm x 150 mm dia M.S. reducer	each	825.00	825.00	825.00	825.00
1286	75 mm x 75 mm x 2 mm SS box (grade A201)	m	2,430.48	2,430.48	2,430.48	2,430.48
1287	75 mm x 75 mm x 2 mm SS box (grade A304)	m	3,240.64	3,240.64	3,240.64	3,240.64
1288	75.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	m	347.68	347.68	347.68	347.68
1289	75.5 mm, 28.50 mm outer top of minimum 1.2 mm thick(Powder coated at any colour)	m	413.28	413.28	413.28	413.28
1290	75.50 mm, 17.79 mm outer low bottom of minimum 1.2 mm thick (Anodized at any colour)	m	295.20	295.20	295.20	295.20
1291	75.50 mm, 17.79 mm outer low bottom of minimum 1.2 mm thick (Powder coated at any colour)	m	370.64	370.64	370.64	370.64
1292	75.50 mm, 19.90 mm outer side of minimum 1.2 mm thick (Anodized at any colour)	m	262.40	262.40	262.40	262.40
1293	75.50 mm, 19.90 mm outer side of minimum 1.2 mm thick (Powder coated at any colour)	m	344.40	344.40	344.40	344.40
1294	75.50 mm, 32 mm outer bottom (high) of minimum 1.2 mm thick (Anodized at any colour)	m	321.44	321.44	321.44	321.44

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1295	75.50 mm, 32 mm outer bottom (high) of minimum 1.2 mm thick (Powder coated at any colour)	m	405.08	405.08	405.08	405.08
1296	75mm dia SS Wheel	each	1,800.00	1,800.00	1,800.00	1,800.00
1297	75mm dia. MS pipe and wall thickness 4.00mm	m	981.20	981.20	981.20	981.20
1298	75mm x 75 mm, 2mm thick SS vertical Post	each	2,000.00	2,000.00	2,000.00	2,000.00
1299	76.00 mm, 38.10 mm wall frame of minimum 1.2 mm thick (Anodized at any colour)	m	318.16	318.16	318.16	318.16
1300	76.00 mm, 38.10 mm wall frame of minimum 1.2 mm thick (Powder coated at any colour)	m	403.44	403.44	403.44	403.44
1301	76.20 mm, 38.10 mm fixed bottom of minimum 1.2 mm thick(Anodized at any colour)	m	396.88	396.88	396.88	396.88
1302	76.20 mm, 38.10 mm fixed bottom of minimum 1.2 mm thick(Powder coated at any colour)	m	455.92	455.92	455.92	455.92
1303	76.20 mm, 38.10 mm, 57.15 mm fixed top & side of minimum 1.2 mm thick(Anodized at any colour)	m	439.52	439.52	439.52	439.52
1304	76.20 mm, 38.10 mm, 57.15 mm fixed top & side of minimum 1.2 mm thick(Powder coated at any colour)	m	513.32	513.32	513.32	513.32
1305	8 mm clear glass	sqm	1,399.32	1,399.32	1,399.32	1,399.32
1306	8 mm clear tempered glass	sqm	2,744.82	2,744.82	2,744.82	2,744.82
1307	8 mm low-E clear tempered glass	sqm	3,821.22	3,821.22	3,821.22	3,821.22
1308	8 mm thick clear glass	sqm	1,399.32	1,399.32	1,399.32	1,399.32
1309	8 mm thick double bubble insulation	sqm	147.00	147.00	147.00	147.00
1310	8 mm thick Melamine board	sqm	387.50	387.50	387.50	387.50
1311	8 mm thick perforated gypsum board (600 mm x 1200 mm grid)	sqm	452.09	452.09	452.09	452.09
1312	8 mm thick perforated gypsum board (600 mm x 600 mm grid)	sqm	322.92	322.92	322.92	322.92
1313	8 mm thick PVC board of size 600 x 600 mm	sqm	592.02	592.02	592.02	592.02
1314	8 mm thick PVC sheet	nos	1,700.00	1,700.00	1,700.00	1,700.00
1315	8'' x 4.75'' x 4''/ 200 mm x 118.75 mm x 100 mm fancy screen block	nos	48.00	48.00	48.00	48.00
1316	8'' x 8'' x 4.25''/ 200 mm x 200 mm x 106.25 mm fancy screen block	nos	48.00	48.00	48.00	48.00
1317	8" x 4" x 2"/ 200 x 100 x 50 mm machine made hard pressed klinker facing bricks	nos	19.75	19.75	19.75	19.75
1318	800 mm dia boring: up to 50 m depth.	m	1,260.00	1,260.00	1,260.00	1,260.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1319	80mm thick Uni-Block 30MPa, Colour-Red/Black/any other Suitable Colour	each	28.00	28.00	28.00	28.00
1320	80mm thick Uni-Block 35MPa, Colour-Red/Black/any other Suitable Colour	each	29.00	29.00	29.00	29.00
1321	80mm thick Uni-Block, 30MPa, Colour-Gray	each	25.00	25.00	25.00	25.00
1322	80mm thick Uni-Block, 35MPa, Colour-Gray	each	26.00	26.00	26.00	26.00
1323	82.60 mm, 43.99 mm door shutter bottom of 1.8 mm thick (Anodized at any colour)	m	577.28	577.28	577.28	577.28
1324	82.60 mm, 43.99 mm door shutter bottom of 1.8 mm thick (Powder coated at any colour)	m	674.04	674.04	674.04	674.04
1325	83.21mm, 16.00 mm fixed grouve cover of minimum 1.2 mm thick (Anodized at any colour)	m	265.68	265.68	265.68	265.68
1326	83.21mm, 16.00 mm fixed grouve cover of minimum 1.2 mm thick (Powder coated at any colour)	m	314.88	314.88	314.88	314.88
1327	88 mm dia uPVC elbow	each	192.00	192.00	192.00	192.00
1328	88 mm dia uPVC pipe	m	308.32	308.32	308.32	308.32
1329	88 mm dia uPVC socket	each	135.00	135.00	135.00	135.00
1330	88 mm dia uPVC tee	each	225.00	225.00	225.00	225.00
1331	9 mm thick gypsum board	sqm	387.50	387.50	387.50	387.50
1332	9 mm thick perforated gypsum board (600 mm x 600 mm grid)	sqm	419.80	419.80	419.80	419.80
1333	9.5'' x 4.5'' x 2.75''/ 237.5 mm x 112.5 mm x 68.75 mm fancy screen block	nos	38.00	38.00	38.00	38.00
1334	9.5" x 4.5" x 2.75" / 237.5 mm x 112.5 mm x 68.75 mm size 10 hole machine made rock-face/textured klinker facing bricks	nos	20.00	20.00	20.00	20.00
1335	9.5" x 4.5" x 2.75"/ 237.5 mm x 112.5 mm x 68.75 mm size machine made solid klinker facing bricks	nos	14.50	14.50	14.50	14.50
1336	9.5" x 4.5" x 2.75"/ 237.5 mm x 112.5 mm x 68.75 mm size 3 hole machine made reinforcing facing bricks	nos	23.75	23.75	23.75	23.75
1337	900 mm dia HDPE pipe for under-ground	m	42,968.00	42,968.00	42,968.00	42,968.00
1338	900 mm dia RCC pipe (stone-chips, 100 mm thickness. 6'-0" long)	each	15,510.00	15,510.00	15,510.00	15,510.00
1339	900 mm HDPE plain bend for under-ground	each	85,000.00	85,000.00	85,000.00	85,000.00
1340	900 mm HDPE plain Tee/T-Y for under-ground	each	108,000.00	108,000.00	108,000.00	108,000.00
1341	900 mm Long 40 Long 40mm x 40 mm (1.5mm thick) box SS Handle	each	150.00	150.00	150.00	150.00
1342	900mm dia. RCC Socket	each	400.00	400.00	400.00	400.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1343	91.00 mm, 28.70 mm outer top of 1.5 mm thick EDF(Anodized at any colour)	m	436.24	436.24	436.24	436.24
1344	91.00 mm, 28.70 mm outer top of 1.5 mm thick EDF(Powder coated at any colour)	m	500.20	500.20	500.20	500.20
1345	91.50 mm, 28.50 mm outer side of 1.5 mm thick EDF(Anodized at any colour)	m	411.64	411.64	411.64	411.64
1346	91.50 mm, 28.50 mm outer side of 1.5 mm thick EDF(Powder coated at any colour)	m	472.32	472.32	472.32	472.32
1347	91.50 mm, 38.00 mm outer bottom of 1.5 mm thick EDF(Anodized at any colour)	m	408.36	408.36	408.36	408.36
1348	91.50 mm, 38.00 mm outer bottom of 1.5 mm thick EDF(Powder coated at any colour)	m	469.04	469.04	469.04	469.04
1349	95 mm, 22.39 mm outer bottom (low) of minimum 1.2 mm thick (Anodized at any colour)	m	346.04	346.04	346.04	346.04
1350	95 mm, 22.39 mm outer bottom (low) of minimum 1.2 mm thick (Powder coated at any colour)	m	396.88	396.88	396.88	396.88
1351	95.00 mm, 19.50 mm outer side of minimum 1.2 mm thick (Anodized at any colour)	m	311.60	311.60	311.60	311.60
1352	95.00 mm, 19.50 mm outer side of minimum 1.2 mm thick (Powder coated at any colour)	m	414.92	414.92	414.92	414.92
1353	95.00 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	m	390.32	390.32	390.32	390.32
1354	95.00 mm, 28.50 mm outer top of minimum 1.2 mm thick (Powder coated at any colour)	m	590.40	590.40	590.40	590.40
1355	95.00 mm, 38.00 mm outer bottom of minimum 1.2 mm thick (Anodized at any colour)	m	390.32	390.32	390.32	390.32
1356	95.00 mm, 38.00 mm outer bottom of minimum 1.2 mm thick (Powder coated at any colour)	m	492.00	492.00	492.00	492.00
1357	95.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Anodized at any colour)	m	390.32	390.32	390.32	390.32
1358	95.5 mm, 28.50 mm outer top of minimum 1.2 mm thick (Powder coated at any colour)	m	590.40	590.40	590.40	590.40
1359	A2 size printing	each	150.00	150.00	150.00	150.00
1360	AAC block of 600mmx200mmx150mm	each	82.00	82.00	82.00	82.00
1361	AAC block of 600mmx200mmx200mm	each	90.00	90.00	90.00	90.00
1362	AAC block of 600mmx200mmx240mm	each	98.00	98.00	98.00	98.00
1363	Accelerating chemical admixture : Type-C	liter	110.00	110.00	110.00	110.00
1364	Acid stone	each	450.00	450.00	450.00	450.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1365	Acrylic based fiber reinforced elastomeric liquid	litre	628.00	628.00	628.00	628.00
1366	Acrylic plastic emulsion paint (odorless)	litre	669.00	669.00	669.00	669.00
1367	Acrylic plastic emulsion paint (plastic/matt finish)	litre	245.00	245.00	245.00	245.00
1368	Acrylic plastic emulsion paint (silky finish)	litre	437.00	437.00	437.00	437.00
1369	Acrylic transparent sheet for name plate	each	1,000.00	1,000.00	1,000.00	1,000.00
1370	Adhesive	Kg	222.00	222.00	222.00	222.00
1371	Adhesive glue for fixing celloloid paper to fair face shutter	litre	160.00	160.00	160.00	160.00
1372	Adjustable mechanism including top and bottom plate	set	624.00	624.00	624.00	624.00
1373	Air tight fabrics in/c heat stitching	sqm	807.30	807.30	807.30	807.30
1374	Alluvial loamy silty soil	cum	635.67	635.67	635.67	635.67
1375	Aluminium angle (50mm X 50 mm X 6mm)(Powder coated at any colour)	m	964.32	964.32	964.32	964.32
1376	Aluminium composite Panel Fire Rated	sqm	5,920.20	5,920.20	5,920.20	5,920.20
1377	Aluminium cover (63.50mm X 25.60 mm X 2.0mm(Powder coated at any colour)	m	267.32	267.32	267.32	267.32
1378	Aluminium paint	gallon	1,475.00	1,475.00	1,475.00	1,475.00
1379	Aluminium sheet	Kg	405.00	405.00	405.00	405.00
1380	Aluminium slp,desiccant(silica gel) for double glazing glass	sqm	538.20	538.20	538.20	538.20
1381	Aluminium Strips (special quality, foreign made)	m	278.80	278.80	278.80	278.80
1382	Anchor bolt fiting charge	Kg	27.00	27.00	27.00	27.00
1383	Angle	each	5.00	5.00	5.00	5.00
1384	Angle Clip	each	8.50	8.50	8.50	8.50
1385	Anti corrosive epoxy paint	litre	950.00	950.00	950.00	950.00
1386	Anti- corrosive paint (Epoxy paint)	liter	950.00	950.00	950.00	950.00
1387	Anti Corrosive Red Oxide (Zinc chromate) Primer	litre	246.00	246.00	246.00	246.00
1388	Anti corrosive red oxide paint	litre	180.00	180.00	180.00	180.00
1389	Anti-Corrosive paint primer	liter	246.00	246.00	246.00	246.00
1390	Approx. 100 mm x 100 mm stainless steel floor grating net	each	105.00	105.00	105.00	105.00
1391	Approx. 100-125 mm dia stainless steel floor grating net	each	200.00	200.00	200.00	200.00
1392	Approx. 125 mm x 125 mm stainless steel floor grating net	each	740.00	740.00	740.00	740.00
1393	Approx. 50 mm x 50 mm stainless steel floor grating net	each	85.00	85.00	85.00	85.00
1394	Approx. 50-75 mm dia stainless steel floor grating net	each	85.00	85.00	85.00	85.00
1395	Apron	each	120.00	120.00	120.00	120.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1396	Arc welding at workshop / factory	m	88.56	88.56	84.30	84.30
1397	Argon gas charge for double glazing glass	sqm	322.92	322.92	322.92	322.92
1398	Arm lock	each	420.00	420.00	420.00	420.00
1399	Arsenic (As)	test	1,800.00	1,800.00	1,800.00	1,800.00
1400	Asst. Crane Operator, at hydraulic pile driver	day	650.00	650.00	650.00	650.00
1401	Auto closer set	set	6,200.00	6,200.00	6,200.00	6,200.00
1402	Automatic Hand drier Local (Super quality)	each	5,500.00	5,500.00	5,500.00	5,500.00
1403	Automatic Hand drier Local (Superior quality)	each	7,000.00	7,000.00	7,000.00	7,000.00
1404	Automatic Hand drier (Special quality)	each	11,200.00	11,200.00	11,200.00	11,200.00
1405	Automatic Hand drier Local (Standard quality)	each	4,500.00	4,500.00	4,500.00	4,500.00
1406	Automatic liquid soap dispenser (foreign): special quality	each	5,950.00	5,950.00	5,950.00	5,950.00
1407	Automatic liquid soap dispenser (local): super quality	each	2,723.00	2,723.00	2,723.00	2,723.00
1408	Automatic liquid soap dispenser (local); standard quality	each	928.00	928.00	928.00	928.00
1409	Automatic Machine Made 1st Class Standard Brick	no	16.00	16.00	16.00	16.00
1410	Ball chain/plastic chain	m	36.08	32.80	32.80	32.80
1411	Bamboo	m	44.28	44.28	39.36	39.36
1412	Bathtub mixer including hand shower	each	3,960.00	3,960.00	3,960.00	3,960.00
1413	Bathtub mixer without hand shower	each	3,595.00	3,595.00	3,595.00	3,595.00
1414	bead chain	m	72.16	72.16	72.16	72.16
1415	Belgium Mirror, 5 mm thickness	sqm	1,120.00	1,120.00	1,120.00	1,120.00
1416	Best quality 38 mm dia PVC Cap.	each	60.00	60.00	60.00	60.00
1417	Best quality heavy type hand type pump no 6	each	2,600.00	2,600.00	2,600.00	2,600.00
1418	Black/ gray airtight cloth bearded	sqm	807.30	807.30	807.30	807.30
1419	Bleaching powder	Kg	100.00	100.00	100.00	100.00
1420	Blue	kg	200.00	200.00	200.00	200.00
1421	Bone mele	Kg	45.00	45.00	45.00	45.00
1422	Boring by using 100 mm dia cutter (0 m to 50 m)	m	160.00	160.00	160.00	160.00
1423	Borrak bamboo (for post)	m	44.28	44.28	44.28	44.28
1424	Borrak bamboo (full size)	each	405.00	405.00	405.00	405.00
1425	bottom bar end cap	each	17.00	17.00	17.00	17.00
1426	Bottom cap / end cap for head rail	each	11.00	11.00	11.00	11.00
1427	Bottom cap for 40 mm dia SS pipe	each	73.00	73.00	73.00	73.00
1428	Bottom rail	m	18.04	18.04	18.04	18.04
1429	Bracket/metal intermediate bracket	each	8.50	8.50	8.50	8.50
1430	Brass screw/38 mm screw	dozen	25.00	25.00	25.00	25.00
1431	Breaking of 12 mm (1/2") down brick chips	cum	430.84	430.84	427.31	427.31

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1432	Breaking of 20 mm down brick chips	cum	342.56	342.56	339.02	339.02
1433	Breaking of 50 mm down brick chips	cum	307.24	307.24	303.71	303.71
1434	Butt fusion welding joint(400-560 mm dia HDPE pipe)	each	540.00	540.00	540.00	540.00
1435	Butt fusion welding joint(630-1000 mm dia HDPE pipe)	each	710.00	710.00	710.00	710.00
1436	Butt fusion welding joint(75-355 mm dia HDPE pipe)	each	430.00	430.00	430.00	430.00
1437	Butterfly hanger	m	142.68	142.68	142.68	142.68
1438	C.P iron bracket toilet paper holder	each	245.00	245.00	245.00	245.00
1439	C.P. soap tray	each	130.00	130.00	130.00	130.00
1440	C.P. towel ring/ 450 mm long single towel rail	each	500.00	500.00	500.00	500.00
1441	Calibration of pressure gauge	set	5,400.00	5,400.00	5,400.00	5,400.00
1442	Carbon dioxide (CO2)	test	500.00	500.00	500.00	500.00
1443	Carriage of earth by any means for site development in Dhaka city	cum	300.18	300.18	300.18	300.18
1444	Carrying cost of steel door and window	each	77.00	77.00	77.00	77.00
1445	Cart fare within 5 km	trip	600.00	600.00	600.00	600.00
1446	Casement 4-bar huge	each	520.00	520.00	520.00	520.00
1447	Casement handle	each	252.00	252.00	252.00	252.00
1448	Casement shutter section(58.40mmX37.20 mm X 57.40mm X 3.0 mm)(Powder coated at any colour)	m	682.24	682.24	682.24	682.24
1449	Cement Paint	kg	85.00	85.00	85.00	85.00
1450	Cementetious pinhole filler	Kg	100.00	100.00	100.00	100.00
1451	Chalk Powder	kg	30.00	30.00	30.00	30.00
1452	Champ veneered flush door shutter	sqm	2,583.36	2,583.36	2,583.36	2,583.36
1453	Chapalish	cum	81,224.50	77,693.00	84,756.00	84,756.00
1454	Chapalish veneered flush door shutter	sqm	2,583.36	2,583.36	2,583.36	2,583.36
1455	Charge to bend 6 mm MS Plates	m	111.52	111.52	123.00	123.00
1456	Chattogram teak	cum	155,386.00	151,854.50	162,413.69	162,413.69
1457	Chief Mechanic, at hydraulic pile driver	day	1,400.00	1,400.00	1,400.00	1,400.00
1458	China made spring for rolling shutter for Collapsible Gate, M.S. Gate, Rolling Shutter Etc.	m	180.40	180.40	180.40	180.40
1459	Chlorinated rubber paint	litre	638.00	638.00	638.00	638.00
1460	Chlorinated rubber paint thinner	litre	208.00	208.00	208.00	208.00
1461	Chlorinated rubber sealer	litre	503.00	503.00	503.00	503.00
1462	Chlorine (Cl)	test	800.00	800.00	800.00	800.00
1463	Cl brackets	pair	150.00	150.00	150.00	150.00
1464	Clamp	each	40.00	40.00	40.00	40.00
1465	Clamp with huskel dumney	each	145.00	145.00	145.00	145.00
1466	clip in brackets with cover	set	10.00	10.00	10.00	10.00
1467	Cloth	m	12.57	12.57	12.57	12.57

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1468	clutch connectors	each	87.00	87.00	87.00	87.00
1469	CNC Machine cutting	sqm	1,668.42	1,668.42	1,668.42	1,668.42
1470	Coal-tar (over timber surface)	sqm	88.27	88.26	86.11	86.11
1471	Cold extrusion mechanical rebar Coupler for (Grade 400) 16mm dia deformed bar	each	160.00	160.00	160.00	160.00
1472	Cold extrusion mechanical rebar Coupler for (Grade 400) 20mm dia deformed bar	each	240.00	240.00	240.00	240.00
1473	Cold extrusion mechanical rebar Coupler for (Grade 400) 22mm dia deformed bar	each	330.00	330.00	330.00	330.00
1474	Cold extrusion mechanical rebar Coupler for (Grade 400) 25mm dia deformed bar	each	450.00	450.00	450.00	450.00
1475	Cold extrusion mechanical rebar Coupler for (Grade 400) 32mm dia deformed bar	each	880.00	880.00	880.00	880.00
1476	Colour Pigment	kg	176.00	176.00	176.00	176.00
1477	Colouring materials	Kg	190.00	190.00	190.00	190.00
1478	Combi-closet (Country Made) Approx. 715-735 X 280-480 mm size, minimum 39.5 kg of weight; Equivalent to COTTO - C1053 / COTTO: 1141 / CHARU: CM 950 / RAK: Galaxy or similar brand	each	20,000.00	20,000.00	20,000.00	20,000.00
1479	Combi-closet (Country Made) approx. 380 mm x 710 mm x 800 mm size, 28.00 kg of weight (flush valve)	each	20,700.00	20,700.00	20,700.00	20,700.00
1480	Combi-closet (Country Made) Approx. 540 X 360 mm size, minimum 16.00 kg of weight	each	17,200.00	17,200.00	17,200.00	17,200.00
1481	Combi-closet (Country Made) Approx. 560 X 360 mm size, minimum 26 kg of weight	each	31,000.00	31,000.00	31,000.00	31,000.00
1482	Combi-closet (Country Made) Approx. 570 X 375 mm size, minimum 22.00 kg of weight	each	23,400.00	23,400.00	23,400.00	23,400.00
1483	Combi-closet (Country Made) Approx. 639-670 X 370 -399 mm size, minimum 32.5 kg of weight, Equivalent to RAK :Orient delux / RAK orient Standard /Stella: Verso or similar brand	each	8,100.00	8,100.00	8,100.00	8,100.00
1484	Combi-closet (Country Made) Approx. 665-704 X 360- 390 mm size, minimum 31.00 kg of weight : Equivalent to CHARU :CM18/ CHARU: CM15 / Stella :Marcela / RAK :Tampa or similar brand	each	7,300.00	7,300.00	7,300.00	7,300.00
1485	Combi-closet (Country Made) Approx. 668-750 x 356 -430 mm size, minimum 37 .0 kg of weight, Equivalent to Stella:Isabella /RAK: Washington / RAK: Jumairah or similar brand	each	11,703.00	11,703.00	11,703.00	11,703.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1486	Combi-closet (Country Made) Approx. 670-670 X 350-390 mm size, minimum 25.2 kg of weight, Equivalent to COTTO: C13960 / RAK Series 600 or similar brand	each	9,580.00	9,580.00	9,580.00	9,580.00
1487	Combi-closet (Country Made) Approx. 670-690 X 360- 362 mm size, minimum 27.5 kg of weight; Equivalent to Stella:Victoria /Stella: Imola / RAK: Karla or similar brand	each	6,075.00	6,075.00	6,075.00	6,075.00
1488	Combi-closet (Country Made) Approx. 685-729 X 360-406 mm size, minimum 36.0 kg of weight; Equivalent RAK: Oasis/Stella: Evana/ Stella: Marlina or equivalent model	each	16,500.00	16,500.00	16,500.00	16,500.00
1489	Combi-closet (Country Made) Approx. 695-719 X 340-395 mm size, minimum 39.5 kg of weight; Equivalent to RAK :Metropolitan / Stella: Vivana or similar brand	each	13,100.00	13,100.00	13,100.00	13,100.00
1490	Combi-closet (Country Made) Approx. 700-725 X 360- 380 mm size, minimum 34.1 kg of weight; Equivalent to COTTO - C1470 / RAK: Venic or similar brand	each	13,300.00	13,300.00	13,300.00	13,300.00
1491	Combi-closet (Country Made) Approx. 702-750x 380-412 mm size, minimum 40.0 kg of weight, Equivalent to COTTO: C118 / RAK: Shino or similar brand	each	16,771.00	16,771.00	16,771.00	16,771.00
1492	Combi-closet (Country Made) Approx. 730-735x 430-440 mm size, minimum 42.0 kg of weight, Equivalent to COTTO: 109 / COTTO: 129 or similar brand	each	19,000.00	19,000.00	19,000.00	19,000.00
1493	Combi-closet (Country Made) Approx. 760-735 X 430-490 mm size, minimum 40 kg of weight, Equivalent to Stella: Viola / COTTO: C1026 or similar brand	each	25,000.00	25,000.00	25,000.00	25,000.00
1494	Compilation of driving report, pile capacity log & submission to PE on signing it on hydraulic pile driver	day	12,000.00	12,000.00	12,000.00	12,000.00
1495	Complete development of the tube-well (test boring) up to 200 m depth.	LS	7,200.00	7,200.00	7,200.00	7,200.00
1496	Consolidated quick test (direct shear test)	test	1,390.00	1,390.00	1,390.00	1,390.00
1497	Conveyance within 25 km	day	120.00	120.00	120.00	120.00
1498	Cord lock	each	6.50	6.50	6.50	6.50
1499	cost of non-shrink grout per bag (25 kg)	bag	1,500.00	1,500.00	1,500.00	1,500.00
1500	Cotton	Kg	231.48	231.48	231.48	231.48
1501	Counter sunk rivets	each	55.00	55.00	55.00	55.00
1502	Country made border Tiles	sqm	2,906.28	2,906.28	2,906.28	2,906.28
1503	Country made decor tiles	sqm	1,108.69	1,108.69	1,108.69	1,108.69

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1504	Country made rustic wall tiles less than or equal to 300 mm x 600 mm	sqm	990.29	990.29	990.29	990.29
1505	Country made urinal Approx. 300 X 350 X 690 mm size, minimum 18.0 kg of weight	each	9,630.00	9,630.00	9,630.00	9,630.00
1506	Country made urinal Approx. 300 X 370 X 510 mm size, minimum 11.0 kg of weight.	each	2,360.00	2,360.00	2,360.00	2,360.00
1507	Country made urinal Approx. 315 X 330 X 600 mm size, minimum 17.0 kg of weight.	each	4,700.00	4,700.00	4,700.00	4,700.00
1508	Country made urinal Approx. 330 X 355 X 445 mm size, minimum 10.0 kg of weight	each	1,705.00	1,705.00	1,705.00	1,705.00
1509	Country made urinal approx. 510 mm x 380 mm x 85 mm in size, minimum 9.5 kg of weight (flat urinal)	each	2,050.00	2,050.00	2,050.00	2,050.00
1510	Country made wall tiles more than 310 mm X 510 mm in sizes or equivalent	sqm	914.94	914.94	914.94	914.94
1511	Country made wall tiles less than , equal or equivalent to 250mmx330mm in sizes	sqm	516.67	516.67	516.67	516.67
1512	Country made wall tiles more than 250 mm x 330 mm & less than 310 mm x 510 mm in sizes or equaivalent	sqm	699.66	699.66	699.66	699.66
1513	CP angle stop cock	each	700.00	700.00	700.00	700.00
1514	CP chain with rubber plug	each	80.00	80.00	80.00	80.00
1515	CP Elbow action Pillar cock	each	2,560.00	2,560.00	2,560.00	2,560.00
1516	CP Leaf Cock	each	560.00	560.00	560.00	560.00
1517	CP One way Swan Cock	each	4,720.00	4,720.00	4,720.00	4,720.00
1518	CP Push Cock	each	720.00	720.00	720.00	720.00
1519	CP Round headed fixed Pillar cock	each	1,150.00	1,150.00	1,150.00	1,150.00
1520	CP shower mixture including shower head and faucet	each	5,700.00	5,700.00	5,700.00	5,700.00
1521	CP shower mixture including shower head only	each	4,592.00	4,592.00	4,592.00	4,592.00
1522	CP Single lever movig pillar cock	each	1,436.00	1,436.00	1,436.00	1,436.00
1523	CP Single lever pillar cock	each	1,150.00	1,150.00	1,150.00	1,150.00
1524	CP Single lever pillar cock (High top 12")	each	3,196.00	3,196.00	3,196.00	3,196.00
1525	CP Single lever pillar cock (High top 8")	each	2,396.00	2,396.00	2,396.00	2,396.00
1526	CP Tree way Swan Cock	each	6,560.00	6,560.00	6,560.00	6,560.00
1527	CP Two in One angle stop cock	each	925.00	925.00	925.00	925.00
1528	CP Two way Swan Cock	each	5,520.00	5,520.00	5,520.00	5,520.00
1529	Crane Operator, at hydraulic pile driver	day	850.00	850.00	850.00	850.00
1530	Curtain wall jointer	each	345.00	345.00	345.00	345.00
1531	Curtain wall sub mullium (100mm X 50 mm X 2.00 mm)(Powder coated at any colour)	m	1,198.84	1,198.84	1,198.84	1,198.84
1532	Curtain wall sub mullium (134mm X70 mm X 3.5 mm)(Powder coated at any colour)	m	2,738.80	2,738.80	2,738.80	2,738.80

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1533	Curtain wall sub mullium (50mm X 50 mm X 2.00 mm)(Powder coated at any colour)	m	797.04	797.04	797.04	797.04
1534	Cutting by oxy-ace of 12 mm M.S plate, top & bott plate	m	121.36	121.36	118.08	118.08
1535	Cutting by shearing granding and hole for steel jacket, 6 mm plate on 2U x (top & bott) - C or U form	m	49.20	49.20	49.20	49.20
1536	Cutting charge of MS angle	each	10.00	10.00	10.00	10.00
1537	Cutting charge of SS angle	each	7.30	7.30	7.30	7.30
1538	Data logging engineer at hydraulic pile driver	day	1,900.00	1,900.00	1,900.00	1,900.00
1539	Decking screw/fastener	nos	8.00	8.00	8.00	8.00
1540	Desalt-S01	liter	750.00	750.00	750.00	750.00
1541	Design Paint including base coat , design coat & protection coat	litre	417.00	417.00	417.00	417.00
1542	Detergent powder	Kg	120.00	120.00	120.00	120.00
1543	Diesel (PWD)	litre	68.00	68.00	68.00	68.00
1544	Diesel hammer mounted rig operator	day	700.00	700.00	650.00	650.00
1545	Digital print name plate	sqm	2,691.00	2,691.00	2,691.00	2,691.00
1546	Double bowl stainless steel sink: Approx. 1160 x 500 mm size double bowl with sink tray (Special)	each	12,500.00	12,500.00	12,500.00	12,500.00
1547	Double bowl stainless steel sink: Approx. 1160 x 500 mm size double bowl with sink tray (Standard)	each	5,000.00	5,000.00	5,000.00	5,000.00
1548	Double bowl stainless steel sink: Approx. 1160 x 500 mm size double bowl with sink tray (Super)	each	8,000.00	8,000.00	8,000.00	8,000.00
1549	Dow coling silicon gum	nos	675.00	675.00	675.00	675.00
1550	Drinkable water for Concreteing i/c storage reservior	liter	2.20	2.20	2.20	2.20
1551	DURS BAN 20 EC	litre	1,050.00	1,050.00	1,050.00	1,050.00
1552	Earthoil	Kg	55.00	55.00	55.00	55.00
1553	Edging	bundle	2,000.00	2,000.00	2,000.00	2,000.00
1554	elastic spindle	each	27.00	27.00	27.00	27.00
1555	Elbow action CP Bib Cock	each	2,560.00	2,560.00	2,560.00	2,560.00
1556	Electrodes including electricity	each	10.00	10.00	10.00	10.00
1557	End cap set/end closure set	set	54.00	50.00	50.00	50.00
1558	EPI / RFL (medium) brand no 6 Pump with necessary fittings etc.	each	3,000.00	3,000.00	3,000.00	3,000.00
1559	Epoxy bonding agent	litre	1,810.00	1,810.00	1,810.00	1,810.00
1560	Epoxy enamel paint including base, curing agent & thinner	litre	450.00	450.00	450.00	450.00
1561	Epoxy enamel primer including base, curing agent & thinner	litre	520.00	520.00	520.00	520.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1562	EPS sheet (62mm thick) density 15 kg per cum	cum	3,531.50	3,531.50	3,531.50	3,531.50
1563	Erection and de-installation	Kg	16.00	16.00	16.00	16.00
1564	Erection charge for purlin	Kg	4.00	4.00	4.00	4.00
1565	Erection charge for roof/wall sheet including flashing and trims	Kg	8.00	8.00	8.00	8.00
1566	Erection charge for built-up or hot rolled sections	M. ton	9,600.00	9,600.00	9,600.00	9,600.00
1567	External plaster mix	litre	295.00	295.00	295.00	295.00
1568	Fabrication charge for column, beam, rafter using Hot Rolled sections including the cost of electricity, LP gas, machinares etc.	M. ton	12,000.00	12,000.00	12,000.00	12,000.00
1569	Fabrication charge for column, beam, rafter using MS plates including the cost of electricity, LP gas, machinares etc.	M. ton	20,000.00	20,000.00	20,000.00	20,000.00
1570	Fabrication charge for roof / wall sheet	M. ton	7,500.00	7,500.00	7,500.00	7,500.00
1571	Fabrication charge of chequered plate including the cost of electricity, LP gas, machinares etc.	M. ton	12,000.00	12,000.00	12,000.00	12,000.00
1572	Fabrication charge of Hot Rolled sections for shore piles of grade 250 Mpa including the cost of electricity, LP gas, machinares etc.	M. ton	5,000.00	5,000.00	5,000.00	5,000.00
1573	Fabrication of light section steel	Kg	7.20	7.20	7.20	7.20
1574	Fabrication of safety net	Kg	25.00	25.00	25.00	25.00
1575	Fabrication: bending of 20mm bar in U	M. ton	6,700.00	6,700.00	6,700.00	6,700.00
1576	Field Engineer (minimum BSc in Eng. with 3yrs exp OR Diploma in Eng. with 8yrs exp)	day	1,900.00	1,900.00	1,900.00	1,900.00
1577	Fin connector	each	4,430.00	4,430.00	4,430.00	4,430.00
1578	Fin hanger	each	5,245.00	5,245.00	5,245.00	5,245.00
1579	Fire rated door complying standard specification	sqm	36,974.34	36,974.34	36,974.34	36,974.34
1580	Fire rated Wood Acoustic Panel (WAP)	sqm	5,382.00	5,382.00	5,382.00	5,382.00
1581	Fire-wood	Kg	485.01	485.01	485.01	485.01
1582	Fitting and fxing of dubble bubble insulation on roof and wall	sqm	50.00	50.00	50.00	50.00
1583	Fitting and fxing of safety net framing system	sqm	322.92	322.92	322.92	322.92
1584	Fitting-fixing charge	sqm	43.06	43.06	43.06	43.06
1585	Fixed basin mixer	each	2,550.00	2,550.00	2,550.00	2,550.00
1586	Fixed Neoprene	m	9.84	9.84	9.84	9.84
1587	Flower shaped roof tiles of size 175 mm x 175 mm or equivalent (red colour)(country made)	sqm	2,413.29	2,413.29	2,413.29	2,413.29

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1588	Flower shaped roof tiles of size 175 mm x175 mm or equivalent (beige colour)(country made)	sqm	2,540.30	2,540.30	2,540.30	2,540.30
1589	Flower shaped roof tiles of size 175 mm x175 mm or equivalent (grey or black colour) (country made)	sqm	2,820.17	2,820.17	2,820.17	2,820.17
1590	Fluorine (Fl)	test	700.00	700.00	700.00	700.00
1591	Fluoroscent paint	litre	1,375.00	1,375.00	1,375.00	1,375.00
1592	Flush Bolt	set	320.00	320.00	320.00	320.00
1593	Flush Valve (foreign)	each	19,500.00	19,500.00	19,500.00	19,500.00
1594	Flush valve (local)	each	11,475.00	11,475.00	11,475.00	11,475.00
1595	Flush valve for urinal	each	4,200.00	4,200.00	4,200.00	4,200.00
1596	Fly proof wire-net	sqm	100.00	100.00	100.00	100.00
1597	Food graded ferro-cement water tank (HBRI) 400 gallon capacity	each	7,200.00	7,200.00	7,200.00	7,200.00
1598	Food graded plastic overhead water reservoir 1000 litre capacity	each	7,300.00	7,300.00	7,300.00	7,300.00
1599	Food graded plastic overhead water reservoir 1500 litre capacity	each	10,950.00	10,950.00	10,950.00	10,950.00
1600	Food graded plastic overhead water reservoir 2000 litre capacity	each	14,600.00	14,600.00	14,600.00	14,600.00
1601	Food graded plastic overhead water reservoir 3000 litre capacity	each	21,900.00	21,900.00	21,900.00	21,900.00
1602	Food graded plastic overhead water reservoir 5000 litre capacity	each	36,500.00	36,500.00	36,500.00	36,500.00
1603	Food-graded plastic internal mini water tank (loft tank) 150 litre capacity	each	2,250.00	2,250.00	2,250.00	2,250.00
1604	Food-graded plastic internal mini water tank (loft tank) 300 litre capacity	each	3,500.00	3,500.00	3,500.00	3,500.00
1605	Food-graded plastic internal mini water tank (loft tank) 500 litre capacity	each	3,650.00	3,650.00	3,650.00	3,650.00
1606	foreign (China/ equivalent) glazed wall tiles of size 300 mm x 600 mm with mathcing floor tiles, décor and border (if any)	sqm	1,722.24	1,722.24	1,722.24	1,722.24
1607	Foreign made door viewer	each	250.00	250.00	250.00	250.00
1608	Foreman including site allowances	day	910.00	910.00	860.00	860.00
1609	Foreman, at hydraulic pile driver	day	850.00	850.00	850.00	850.00
1610	Formica laminated door shutter (commercial lipping)	sqm	4,046.19	4,046.19	4,046.19	4,046.19
1611	Foundation Engineer: 5-10yrs exp , Membership with IEB	day	3,000.00	3,000.00	3,000.00	3,000.00
1612	French powder	Kg	30.00	30.00	30.00	30.00
1613	Fuel & lubricant for mixer machine, vibrator, pump etc.	day	1,275.00	1,275.00	1,275.00	1,275.00
1614	G.I. wire	Kg	120.00	120.00	120.00	120.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1615	Gala	kg	900.00	900.00	900.00	900.00
1616	Galvanized anchor bolt of varying dia	M. ton	125,000.00	125,000.00	125,000.00	125,000.00
1617	Galvanized nut bolt of varying dia ASTM 307	Kg	250.00	250.00	250.00	250.00
1618	Galvanized nut bolt of varying dia ASTM 325	Kg	280.00	280.00	280.00	280.00
1619	Galvaniztion at plant	Kg	55.00	55.00	55.00	55.00
1620	Garjan veneered flush door shutter	sqm	2,712.53	2,712.53	2,712.53	2,712.53
1621	Garjan/Jam/local Sal	cum	77,693.00	74,161.50	79,458.75	79,458.75
1622	Gear box /tilter	each	11.50	11.50	11.50	11.50
1623	Generator Operator, at hydraulic pile driver	day	650.00	650.00	650.00	650.00
1624	Generator, fuel, lubricant for hydraulic static pile driver	day	20,400.00	20,400.00	20,400.00	20,400.00
1625	Generator/ Power consumption per kwh	kwh	11.00	11.00	11.00	11.00
1626	Ghorami	day	700.00	700.00	650.00	650.00
1627	Glass fiber Fabrics (special quality, foreign made)	sqm	1,130.22	1,130.22	1,130.22	1,130.22
1628	Glass Fiber Mesh (10mmX10mm grid and weight 110gm/sqm)	sqm	80.73	80.73	80.73	80.73
1629	Glass hole - Plumbing	each	31.00	31.00	31.00	31.00
1630	Glass pan fitting including putty	sqm	201.29	201.29	198.06	198.06
1631	Goggles	each	80.00	80.00	80.00	80.00
1632	GP (glazed/unglazed homogeneous) 300 mm x 300 mm floor tiles country made	sqm	645.84	645.84	645.84	645.84
1633	GP (glazed/unglazed Homogeneous) 400 mm x 400 mm floor tiles country made	sqm	753.48	753.48	753.48	753.48
1634	GP (homogeneous) 300 mm x 600 mm floor tiles	sqm	850.36	850.36	850.36	850.36
1635	GP (homogeneous) 305 mm x 305 mm high traffic floor tiles	sqm	721.19	721.19	721.19	721.19
1636	GP (homogeneous) 600 mm x 1200 mm floor tiles	sqm	1,980.58	1,980.58	1,980.58	1,980.58
1637	GP (homogeneous) 600 mm x 600 mm floor tiles	sqm	882.65	882.65	882.65	882.65
1638	GP (mirror polished) 300 mm x 300 mm floor tiles country made	sqm	699.66	699.66	699.66	699.66
1639	GP (mirror polished) 400 mm x 400 mm floor tiles country made	sqm	882.65	882.65	882.65	882.65
1640	GP (mirror polished) 500 mm x 500 mm floor tiles country made	sqm	990.29	990.29	990.29	990.29
1641	GP (mirror polished) 600 mm x 1200 mm country made	sqm	1,776.06	1,776.06	1,776.06	1,776.06
1642	GP (mirror polished) 600 mm x 600 mm floor tiles country made	sqm	1,130.22	1,130.22	1,130.22	1,130.22
1643	GP (mirror polished) 600 mm x 900 mm country made	sqm	1,442.38	1,442.38	1,442.38	1,442.38

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1644	GP (mirror polished) 800 mm x 800 mm floor tiles country made	sqm	1,237.86	1,237.86	1,237.86	1,237.86
1645	GP 300 mm x 300 mm stair tiles (country made)	sqm	731.95	731.95	731.95	731.95
1646	GP 300 mm x 600 mm (Double Charge) stair tiles (country made)	sqm	1,463.90	1,463.90	1,463.90	1,463.90
1647	GP 300 mm x 600 mm stair tiles (country made)	sqm	1,044.11	1,044.11	1,044.11	1,044.11
1648	GP Mirror Polished (Double Charge) 600 mm x 600 mm floor tiles	sqm	1,302.44	1,302.44	1,302.44	1,302.44
1649	GP Mirror Polished (Double Charge) 800 mm x 800 mm floor tiles	sqm	1,679.18	1,679.18	1,679.18	1,679.18
1650	GP sheet for purlin of any thickness	M. ton	118,000.00	117,000.00	118,000.00	118,000.00
1651	Grating with brass coupling	each	300.00	300.00	300.00	300.00
1652	Grease/lubricant etc.	Kg	143.30	143.30	143.30	143.30
1653	Ground water level location	site	580.00	580.00	580.00	580.00
1654	Gum	kg	200.00	200.00	200.00	200.00
1655	Gumboot	each	250.00	250.00	250.00	250.00
1656	Hand hoe, 250 mm size	each	100.00	100.00	100.00	100.00
1657	Hand lock	each	53.00	53.00	53.00	53.00
1658	Handle (Glass Door)	set	2,800.00	2,800.00	2,800.00	2,800.00
1659	Handle (Plastic Door, Windows & Partition)	each	54.00	54.00	54.00	54.00
1660	Handling cord	m	18.04	18.04	18.04	18.04
1661	Handling cord/nylon cord	m	9.84	9.84	9.84	9.84
1662	Hardner (putty) for doco paint	litre	1,300.00	1,300.00	1,300.00	1,300.00
1663	Hasp bolt Ø 25 x ↔ 254 mm	each	210.00	210.00	210.00	210.00
1664	Hatch bolt	each	350.00	350.00	350.00	350.00
1665	Head cap set	each	13.00	13.00	13.00	13.00
1666	Head control tube, 38mm aluminium tube with wall thickness 1mm	m	72.16	65.60	65.60	65.60
1667	Head rail	m	31.16	31.16	31.16	31.16
1668	Head rail, Aluminium	m	31.16	31.16	31.16	31.16
1669	Heavy duty gate locking arrangement	each	280.00	280.00	280.00	280.00
1670	Hedge scissors	each	1,200.00	1,200.00	1,200.00	1,200.00
1671	Helper to crane operator, at hydraulic pile driver	day	600.00	600.00	600.00	600.00
1672	Helper to machine operator, at hydraulic pile driver	day	600.00	600.00	600.00	600.00
1673	Helper to mechanic, at hydraulic pile driver	day	600.00	600.00	600.00	600.00
1674	Helper to rig operator/c site allowances	day	640.00	620.00	590.00	590.00
1675	Helper to surveyer, at hydraulic pile driver	day	850.00	850.00	850.00	850.00
1676	Hem	sqm	32.00	32.00	32.00	32.00
1677	Hessian Cloth	sqm	32.28	32.28	32.28	32.28
1678	High performance elastomeric cementitious waterproof coating	Kg	225.00	225.00	225.00	225.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1679	Hinge	nos	49.00	49.00	49.00	49.00
1680	Hinged cleats and buffer block	set	62.00	62.00	62.00	62.00
1681	Hire and operational cost for batching mixture plant per cum (excluding fuel) =	cum	273.00	273.00	273.00	273.00
1682	Hire and operational cost for pay loader per cum (excluding fuel)	cum	131.00	131.00	131.00	131.00
1683	Hire and operational cost of pump machine (excluding fuel)	cum	206.00	206.00	206.00	206.00
1684	Hire and operational cost of transit mixture (excluding fuel)	cum	143.00	143.00	143.00	143.00
1685	Hire charge for air pressure pump	day	500.00	500.00	500.00	500.00
1686	Hire charge of air compressor for auger boring	day	5,300.00	5,300.00	5,300.00	5,300.00
1687	Hire charge of auger boring complete rig set including operational expenses	day	76,300.00	76,300.00	76,300.00	76,300.00
1688	Hire charge of concreting equipment for auger boring	day	5,300.00	5,300.00	5,300.00	5,300.00
1689	Hire charge of crane for auger boring	day	55,000.00	55,000.00	55,000.00	55,000.00
1690	Hire charge of generator for auger boring	day	5,300.00	5,300.00	5,300.00	5,300.00
1691	Hire charge of 3HP mud pump	day	645.00	645.00	645.00	645.00
1692	Hire charge of boring rig	day	3,200.00	3,200.00	3,200.00	3,200.00
1693	Hire charge of cast in situ pile boring complete rig set including operational expenses	day	8,500.00	8,500.00	8,500.00	8,500.00
1694	Hire charge of cold extrusion coupler press machine - full set (including local carriage, power and all other related consumables)	day	4,500.00	4,500.00	4,500.00	4,500.00
1695	Hire charge of Crane (crawler) (50 to 55 Ton) in/c cost of fuel and lubricant etc for driving / lifting sheet pile	day	19,692.00	19,962.00	19,962.00	19,962.00
1696	Hire charge of desander for auger boring	day	6,450.00	6,450.00	6,450.00	6,450.00
1697	Hire charge of diesel hammer mounted completed rig set.	day	25,200.00	25,200.00	25,200.00	25,200.00
1698	Hire charge of diesel operated 1/4 cusec capacity water pump	day	640.00	640.00	640.00	640.00
1699	Hire charge of dump truck/ tripping trucks	day	5,000.00	5,000.00	5,000.00	5,000.00
1700	Hire charge of excavator for auger boring	day	10,000.00	10,000.00	10,000.00	10,000.00
1701	Hire charge of Hanging working Platform (Gondola)	day	1,000.00	1,000.00	1,000.00	1,000.00
1702	Hire charge of hydraulic static pile driver complete rig set	day	76,200.00	76,200.00	76,200.00	76,200.00
1703	Hire charge of load testing devices including hydraulic fluid: up to 200 ton capacity	test	7,000.00	7,000.00	7,000.00	7,000.00
1704	Hire charge of marble cutting and shaping machine including cutting disc.	day	550.00	550.00	550.00	550.00
1705	Hire charge of marble cutting disc	day	450.00	450.00	450.00	450.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1706	Hire charge of marble polishing machine including polishing stone	day	620.00	620.00	620.00	620.00
1707	Hire charge of MS steel tank (6'-6" x 10'-0" x 4'-0")	trip	350.00	350.00	350.00	350.00
1708	Hire charge of mud silo for auger boring	day	1,100.00	1,100.00	1,100.00	1,100.00
1709	Hire charge of paint spray machine	day	700.00	700.00	700.00	700.00
1710	Hire charge of pile load testing devices including hydraulic fluid: up to 400 ton capacity	test	9,000.00	9,000.00	9,000.00	9,000.00
1711	Hire charge of pre-cast micro pile driving complete rig set including operational expenses	day	5,000.00	5,000.00	5,000.00	5,000.00
1712	Hire charge of pre-cast pile driving complete rig set including operational expenses	day	6,000.00	6,000.00	6,000.00	6,000.00
1713	Hire charge of pump for dewatering	day	1,000.00	1,000.00	1,000.00	1,000.00
1714	Hire charge of pump including spare and maintenance	hour	320.00	320.00	320.00	320.00
1715	Hire charge of Rebar forging and threading machines - full set (including local carriage, power and all other related consumables)	day	12,000.00	12,000.00	12,000.00	12,000.00
1716	Hire charge of total station	day	3,000.00	3,500.00	3,500.00	3,500.00
1717	Hire charge of vibratory hammer for driving sheet pile	day	15,000.00	15,000.00	15,000.00	15,000.00
1718	Hire charge of water bowser for auger boring	day	5,600.00	5,600.00	5,600.00	5,600.00
1719	Hire charge of welding machine	day	750.00	750.00	750.00	750.00
1720	Hire-charge of chain dozer	day	8,200.00	8,200.00	8,200.00	8,200.00
1721	Hollow bit	m	64.00	64.00	64.00	64.00
1722	Hollow block of 240mmx114mmx70mm 3H	each	12.00	12.00	12.00	12.00
1723	Hollow block of 390mmx190mmx112mm	each	40.00	40.00	40.00	40.00
1724	Hollow block of 390mmx190mmx240mm	each	95.00	95.00	95.00	95.00
1725	Hot rolled Steel pipe & tube of grade 275 MPa	M. ton	135,000.00	135,000.00	135,000.00	135,000.00
1726	Hot rolled W, I, S, T shape sections of grade 275 MPa	M. ton	80,000.00	80,000.00	80,000.00	80,000.00
1727	HPL Sheet (0.8 mm)	sqm	1,184.04	1,184.04	1,184.04	1,184.04
1728	Hydraulic door closer	each	2,000.00	2,000.00	2,000.00	2,000.00
1729	Hydrometer, sieve analysis & sp. gr.,& Classification according to ASTM	test	1,370.00	1,370.00	1,370.00	1,370.00
1730	Indian origin (deradun) mosaic chips	Kg	18.00	18.00	18.00	18.00
1731	Installation charge of fire rated door	sqm	2,583.36	2,583.36	2,583.36	2,583.36
1732	Insulated Gum/Structural silicon for Gas sealing in double glazing glass	sqm	753.48	753.48	753.48	753.48
1733	Iron (Fe)	test	2,500.00	2,500.00	2,500.00	2,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1734	Iron screws	dozen	18.00	18.00	18.00	18.00
1735	Jarul	cum	63,567.00	63,567.00	63,567.00	63,567.00
1736	Jessore & other local teak	cum	105,945.00	105,945.00	105,945.00	105,945.00
1737	Jute hessian (for making formwork water-tight)	sqm	32.29	32.29	32.29	32.29
1738	Karpa	kg	550.00	550.00	550.00	550.00
1739	Kathal	cum	84,756.00	84,756.00	84,756.00	84,756.00
1740	Kerosene / Diesel	litre	68.00	68.00	68.00	68.00
1741	Labour charge for application of non-shrink grout including the cost of making shutter	cum	1,765.75	1,765.75	1,765.75	1,765.75
1742	Labour charge for enamel painting	M. ton	3,500.00	3,500.00	3,500.00	3,500.00
1743	Labour charge for redoxide painting	M. ton	600.00	600.00	600.00	600.00
1744	Labour cost	sqm	43.06	43.06	43.06	43.06
1745	Ladder cord	m	13.94	13.94	13.94	13.94
1746	Laqure spray polishing	litre	580.00	580.00	580.00	580.00
1747	Lever CP Conceal Bib Cock long body with aerator (Oliver/spoon/delta/decent lever or similar)	each	850.00	850.00	850.00	850.00
1748	L-frame	m	145.00	145.00	145.00	145.00
1749	lifting plastic kit	each	10.50	10.50	10.50	10.50
1750	Line welding (at field)	m	196.80	196.80	196.80	196.80
1751	Link chain/weight chain	m	39.36	36.08	36.08	36.08
1752	L-inner joint clamp	each	14.50	14.50	14.50	14.50
1753	Liquid limit	test	350.00	350.00	350.00	350.00
1754	Load testing result sheet preparation	test	6,500.00	6,500.00	6,500.00	6,500.00
1755	Local Mirror, 5 mm thickness	sqm	1,055.00	1,055.00	1,055.00	1,055.00
1756	Local carriage, load-unload	M. ton	1,700.00	1,700.00	1,700.00	1,700.00
1757	lock	each	200.00	200.00	200.00	200.00
1758	Lock (2")	each	38.00	38.00	38.00	38.00
1759	Locking arrangement with magnet	each	250.00	250.00	250.00	250.00
1760	Locking device	set	2,800.00	2,800.00	2,800.00	2,800.00
1761	Loha/Pyiankado	cum	95,350.50	95,350.50	95,350.50	95,350.50
1762	Long Pan Approx. 520 X 406.4 X 223.52 mm size, minimum 10.0 kg of weight	each	860.00	860.00	860.00	860.00
1763	Long Pan Approx. 530 X 400 X 230 mm size, minimum 11.0 kg of weight	each	1,015.00	1,015.00	1,015.00	1,015.00
1764	Long Pan Approx. 540 X 460 X 290 mm size, minimum 13.5 kg of weight	each	1,420.00	1,420.00	1,420.00	1,420.00
1765	Long Pan Approx. 540 X 470 X 290 mm size, minimum 16 kg of weight	each	1,520.00	1,520.00	1,520.00	1,520.00
1766	Long Pan Approx. 554 X 439 X 249 mm size, minimum 12.5 kg of weight	each	1,390.00	1,390.00	1,390.00	1,390.00
1767	Low-down Plastic low down complete Per set including internal fittings	each	900.00	900.00	900.00	900.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1768	Low-down Porcelin: approx. 365 X 185 X 325 mm size, minimum 10.00 kg of weight, CHARU CM-10 or equivalent	each	2,025.00	2,025.00	2,025.00	2,025.00
1769	Low-down Porcelin: approx. 490 X 190 X 345 mm size, minimum 11.00 kg of weight, CHARU CM-15 or equivalent brand	each	2,358.00	2,358.00	2,358.00	2,358.00
1770	Low-down Porcelin:approx. 490 X 190 X 350 mm size, minimum 14 kg of weight, RAK or equivalen brand	each	2,400.00	2,400.00	2,400.00	2,400.00
1771	L-section for wall and ceiling(Anodized at any colour)	m	75.44	75.44	75.44	75.44
1772	M.S. angle	each	115.00	115.00	115.00	115.00
1773	M.S. plain bar and F.I. bar (non-structural use)	M. ton	70,000.00	70,000.00	70,000.00	70,000.00
1774	Machine Operator, at hydraulic pile driver	day	650.00	650.00	650.00	650.00
1775	Magnetic catch	each	50.00	50.00	50.00	50.00
1776	Magnetic Door Holder	each	180.00	180.00	180.00	180.00
1777	Making hole in Myanmar(Burma) Teak board	sqm	376.74	376.74	376.74	376.74
1778	Making steel door-window frame and shutter	sqm	839.59	839.59	839.59	839.59
1779	Making thread for sag rod	Kg	13.00	13.00	13.00	13.00
1780	Manganese (Mn)	test	1,800.00	1,800.00	1,800.00	1,800.00
1781	Markin cloth	m	13.12	13.12	13.12	13.12
1782	Masking tape	each	25.00	25.00	25.00	25.00
1783	Matt or rustic floor tiles of size 600 mm x 600 mm and min. thick 9.8 mm (country made)	sqm	1,108.69	1,108.69	1,108.69	1,108.69
1784	Matt or rustic floor tiles of size 600 mm x 600 mm and minimum thickness 9.8 mm foreign(China/equivalent) made	sqm	1,937.52	1,937.52	1,937.52	1,937.52
1785	Matt or rustic floor tiles of size 600 mm x 900 mm and minimum thickness 9.8 mm foreign (China/Malysia or equivalent) made	sqm	3,444.48	3,444.48	3,444.48	3,444.48
1786	Matt or rustic floor tiles of size 800 mm x 800 mm and min. thick 9.8 mm (country made)	sqm	1,453.14	1,453.14	1,453.14	1,453.14
1787	Maximum flow rate-200 litre/min	each	13,500.00	13,500.00	13,500.00	13,500.00
1788	Maximum flow rate-80 litre/min	each	8,600.00	8,600.00	8,600.00	8,600.00
1789	Mehgani	cum	70,630.00	70,630.00	70,630.00	70,630.00
1790	Melamine board (12 mm thick): 8' -0" x 4'-0" size, 700kg/m3	nos	2,150.00	2,150.00	2,152.00	2,152.00
1791	Metal Handle	each	210.00	210.00	210.00	210.00
1792	Micro Silica (for high strength concrete)	Kg	80.00	80.00	80.00	80.00
1793	Minar stone for finishing mosaic work	each	420.00	420.00	420.00	420.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1794	Mirror polish 1000 mm x1000 mm floor tiles foreign(China/equivalent) made	sqm	4,305.60	4,305.60	4,305.60	4,305.60
1795	Mirror polish 600 mm x 1200 mm floor tiles foreign(China/equivalent) made	sqm	3,229.20	3,229.20	3,229.20	3,229.20
1796	Mirror polish 600 mm x 600 mm floor tiles foreign(China/equivalent) made	sqm	1,614.60	1,614.60	1,614.60	1,614.60
1797	Mirror polish 800 mm x 800 mm floor tiles foreign(China/equivalent) made	sqm	1,829.88	1,829.88	1,829.88	1,829.88
1798	Mirror polish1200 mm x 1200 mm floor tiles foreign(China/equivalent) made	sqm	5,382.00	5,382.00	5,382.00	5,382.00
1799	Moisture content	test	240.00	240.00	240.00	240.00
1800	Mortice door lock	each	700.00	700.00	700.00	700.00
1801	Mosquito net (fiber net)	sqm	215.28	215.28	215.28	215.28
1802	Moulding for furniture work	sqm	9,160.16	9,160.16	9,160.16	9,160.16
1803	Mounting brackets cover	m	42.64	42.64	42.64	42.64
1804	mounting profile for outside mount of roller tube	m	108.24	108.24	108.24	108.24
1805	Moving basin mixer	each	2,600.00	2,600.00	2,600.00	2,600.00
1806	Moving sink mixer	each	1,436.00	1,436.00	1,436.00	1,436.00
1807	Moving type 100 mm CP shower head	each	915.00	915.00	915.00	915.00
1808	Moving type 150 mm CP shower head	each	1,750.00	1,750.00	1,750.00	1,750.00
1809	Moving type 200 mm CP shower head	each	1,960.00	1,960.00	1,960.00	1,960.00
1810	Moving type 250 mm CP shower head	each	2,200.00	2,200.00	2,200.00	2,200.00
1811	MS "U'' bar /channel	each	50.00	50.00	50.00	50.00
1812	MS box holder	each	175.00	175.00	175.00	175.00
1813	MS Glass Holder	each	125.00	125.00	125.00	125.00
1814	MS hollow box (3 mm thick)	M. ton	140,000.00	140,000.00	140,000.00	140,000.00
1815	MS plate of grade 275 Mpa	M. ton	74,000.00	74,000.00	74,000.00	74,000.00
1816	MS plate of grade 345 Mpa	M. ton	77,000.00	77,000.00	77,000.00	77,000.00
1817	MS tube / angle	M. ton	76,000.00	76,000.00	76,000.00	76,000.00
1818	Murate of potash	Kg	22.00	22.00	22.00	22.00
1819	Mustard oil cake	Kg	46.00	46.00	46.00	46.00
1820	Myanmar(Burma) teak	cum	250,736.50	247,205.00	254,268.00	254,268.00
1821	Myanmar(Burma) teak veneered flush door shutter	sqm	3,659.76	3,659.76	3,659.76	3,659.76
1822	Nails and wires	Kg	70.00	70.00	70.00	70.00
1823	NEOCIDOL-60	litre	1,650.00	1,650.00	1,650.00	1,650.00
1824	Nickel plated handle	each	80.00	80.00	80.00	80.00
1825	Nipples with jum-nuts	each	60.00	60.00	60.00	60.00
1826	Nitrate-Nitrogen (NO3-N)	test	900.00	900.00	900.00	900.00
1827	Norton Tap	each	28.00	28.00	28.00	28.00
1828	Nut-bolts, J-hooks etc.	Kg	160.00	160.00	160.00	160.00
1829	Nuts with washer	each	30.00	30.00	30.00	30.00
1830	Oil based anticorrosive primer	litre	196.00	196.00	196.00	196.00
1831	one idler aluminium rod	m	52.48	49.20	49.20	49.20

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1832	Oxalic Acid	litre	105.00	105.00	105.00	105.00
1833	Padlo	kg	125.00	125.00	125.00	125.00
1834	Paint	litre	286.00	286.00	286.00	286.00
1835	Painter	day	700.00	700.00	650.00	650.00
1836	Pakistan origin (onix) mosaic chips	Kg	20.00	20.00	20.00	20.00
1837	Partition frame (Profile)	m	219.76	226.32	226.32	226.32
1838	Partition frame (Reinforcement)	m	98.40	105.62	105.62	105.62
1839	Partition glass bit	m	36.08	36.08	36.08	36.08
1840	Pasting tiles adhesive	Kg	21.00	21.00	21.00	21.00
1841	Pea-gravel	cum	3,300.19	3,300.19	3,000.04	3,000.04
1842	Pedestal approx. size of 670 mm x 186 mm x 170 mm	each	1,800.00	1,800.00	1,800.00	1,800.00
1843	perfekthion 1-100ml ,bottle	each	245.00	245.00	245.00	245.00
1844	Petrol (PWD)	litre	89.00	89.00	89.00	89.00
1845	pH/Hydrogen Ion density	test	500.00	500.00	500.00	500.00
1846	piano wire flat springs	m	52.48	52.48	52.48	52.48
1847	Pigment for colour washing	Kg	200.00	200.00	200.00	200.00
1848	Pile Integrity Test (PIT)	each	1,200.00	1,200.00	1,200.00	1,200.00
1849	Plastic clip	each	11.00	11.00	11.00	11.00
1850	Plastic limit	test	350.00	350.00	350.00	350.00
1851	Plastic low-down cistern	each	950.00	950.00	950.00	950.00
1852	Plastic Runner	each	4.00	4.00	4.00	4.00
1853	Plastic washer	each	3.00	3.00	3.00	3.00
1854	Plastic washer/fabricupper clip	each	3.00	3.00	3.00	3.00
1855	Plumber	day	700.00	700.00	650.00	650.00
1856	Point welding	point	3.00	3.00	3.00	3.00
1857	Polish mistry	day	700.00	700.00	650.00	650.00
1858	polyester fabrics	m	239.44	239.44	239.44	239.44
1859	Polymer based curing compound	litre	230.00	230.00	230.00	230.00
1860	Polymer Modified Adhesive Mortar (40 kgs bag)	bag	700.00	700.00	700.00	700.00
1861	Polypropylene(PP) fiber carpet tiles - size 20" x 20" & thickness 5mm	sqm	4,413.24	4,413.24	4,413.24	4,413.24
1862	Polythene sheet	sqm	27.99	27.99	27.99	27.99
1863	Porceain toilet paper holder (any color)	each	600.00	600.00	600.00	600.00
1864	Porcelain sink: 635 mm x 480 mm x195 mm size, 19.5 kg of weight	each	1,920.00	1,920.00	1,920.00	1,920.00
1865	Porcelain soap tray (any color)	each	280.00	280.00	280.00	280.00
1866	Portland Composite Cement (BDS EN 197-1:2003 CEM-II/B-V) [Retail]	bag	490.00	490.00	490.00	490.00
1867	Portland Composite Cement ,(CEM-II/B-M 42.5N (42.5MPa) (6-20% constituents other than clinker): 50 kg bag	bag	500.00	500.00	500.00	500.00
1868	Possible cost/royalty of lawn grass	sqm	5.38	5.38	5.38	5.38
1869	Premium exterior emulsion paint	litre	430.00	430.00	430.00	430.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1870	Premium Silicon based paint/coating	litre	950.00	950.00	950.00	950.00
1871	Premium synthetic enamel paint	litre	290.00	290.00	290.00	290.00
1872	Premix cement plaster	Kg	45.00	45.00	45.00	45.00
1873	Primer for laying PVC membrane on wall	litre	580.00	580.00	580.00	580.00
1874	Proclaim,1 box (10gm-10 pack)	each	635.00	635.00	635.00	635.00
1875	Production cost of Ready Mix Concrete (excluding material cost) including carrying and pumping at site	cum	410.00	410.00	410.00	410.00
1876	Protector bit (Double)	m	92.17	92.17	92.17	92.17
1877	Protector bit (Single)	m	65.60	65.60	65.60	65.60
1878	PU base coat clear sealer	litre	520.00	520.00	520.00	520.00
1879	PU general purpose hardener	litre	695.00	695.00	695.00	695.00
1880	PU top coat pigmented	litre	1,050.00	1,050.00	1,050.00	1,050.00
1881	pull with tassel	each	56.00	56.00	56.00	56.00
1882	Pumice stone for finishing mosaic work	each	175.00	175.00	175.00	175.00
1883	Push Type Self closing pillar cock	each	956.00	956.00	956.00	956.00
1884	Push-Up type liquid soap dispenser (foreign): special quality	each	6,790.00	6,790.00	6,790.00	6,790.00
1885	Push-Up type liquid soap dispenser (foreign): suprior quality	each	4,550.00	4,550.00	4,550.00	4,550.00
1886	Push-Up type liquid soap dispenser (local): standard quality	each	695.00	695.00	695.00	695.00
1887	Push-Up type liquid soap dispenser (local): super quality	each	1,270.00	1,270.00	1,270.00	1,270.00
1888	Putty	Kg	107.00	107.00	107.00	107.00
1889	PVC toilet paper holder	each	180.00	180.00	180.00	180.00
1890	PVC connection pipe	each	45.00	45.00	45.00	45.00
1891	PVC soap tray	each	60.00	60.00	60.00	60.00
1892	PVC Solution / gum	nos	660.68	660.68	660.68	660.68
1893	PVC water stopper (with centre bulb)	m	590.40	590.40	590.40	590.40
1894	PVC water stopper (with non-centre bulb)	m	524.80	524.80	524.80	524.80
1895	PVC/ vinyl laminated fiberglass fabrics	sqm	1,076.40	1,076.40	1,076.40	1,076.40
1896	PWD Adjustment Factor	LS	1.00	1.00	1.00	1.00
1897	Ready made beech wood shutter: minimum 36 mm thick & 400 kg/cum	sqm	14,240.77	14,240.77	14,240.77	14,240.77
1898	Ready made commercial wooden shutter: minimum 36 mm thick & 400 kg/cum	sqm	5,538.08	5,538.08	5,538.08	5,538.08
1899	Ready made mahogany wooden shutter: minimum 36 mm thick & 400 kg/cum	sqm	7,176.90	7,176.90	7,176.90	7,176.90
1900	Ready made Myanmar(Burma) teak wooden shutter: minimum 36 mm thick & 400 kg/cum	sqm	23,734.62	23,734.62	23,734.62	23,734.62
1901	Ready-mix putty (exterior)	Kg	64.00	64.00	64.00	64.00
1902	Ready-mix putty (interior)	Kg	80.00	80.00	80.00	80.00
1903	Red Oxide Primer	Kg	3.24	3.24	3.24	3.24

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1904	Redomil gold, 500gm packet	each	825.00	825.00	825.00	825.00
1905	Retrading chemical admixture : Type-B	liter	160.00	160.00	160.00	160.00
1906	Rig operators including site allowances	day	750.00	750.00	700.00	700.00
1907	Rim (round) door lock	each	550.00	550.00	550.00	550.00
1908	Ripieceord 1-100 ml bottle	each	220.00	220.00	220.00	220.00
1909	Rivet	each	5.00	5.00	5.00	5.00
1910	Rivet, washer, wire nails etc.	Kg	90.00	90.00	90.00	90.00
1911	Rivets (normal)	each	2.00	2.00	2.00	2.00
1912	Rod binder	day	700.00	700.00	650.00	650.00
1913	Rod tilt / Hexagon Aluminium Rod	m	29.52	29.52	29.52	29.52
1914	Roof sheet / wall sheet 0.47 mm zinc alum colour bond	M. ton	245,000.00	245,000.00	245,000.00	245,000.00
1915	Roof tiles of size 100 mm x 200 mmor equivalent (beige colour) (country made)	sqm	1,560.78	1,560.78	1,560.78	1,560.78
1916	Roof tiles of size 100 mm x200 mm or equivalent (Red colour) (country made)	sqm	1,581.23	1,581.23	1,581.23	1,581.23
1917	Roof tiles of size 125 mm x170 mm to 200 mm x200 mm or equivalent (beige colour) (country made)	sqm	1,991.34	1,991.34	1,991.34	1,991.34
1918	Roof tiles of size 125 mm x170 mm to 200 mm x 200 mm or equivalent (red colour) (country made)	sqm	1,891.77	1,891.77	1,891.77	1,891.77
1919	Roof tiles of size 160 mm x 268 mm or equivalent (red colour) (country made)	sqm	1,679.18	1,679.18	1,679.18	1,679.18
1920	Roof tiles of size 225 mm x 300 mm or larger (red colour)(country made)	sqm	1,743.77	1,743.77	1,743.77	1,743.77
1921	Roof tiles of size 225 mm x300 mm or larger (beige colour)	sqm	1,937.52	1,937.52	1,937.52	1,937.52
1922	Rope	kg	55.00	55.00	55.00	55.00
1923	Round headed CP Conceal Bib Cock short body (Essco/coaster/star/diamond/delux/ deco/orbed/delin/triple/master/classic headed or similar head)	each	850.00	850.00	850.00	850.00
1924	Round rubber bit	m	23.00	23.00	23.00	23.00
1925	Rowel plug	each	1.00	1.00	1.00	1.00
1926	Rowl plug (10 Nos. per pack)	pack	22.00	22.00	22.00	22.00
1927	Royal bolt - Plumbing	each	57.00	57.00	57.00	57.00
1928	Royality of Dredge material in the water body	cum	49.44	49.44	49.44	49.44
1929	Royalty of earth	cum	77.69	77.69	74.16	74.16
1930	Rubber	m	24.60	24.60	24.60	24.60
1931	Rubber bit	m	11.21	11.21	11.21	11.21
1932	Rubber gasket	m	6.56	6.56	6.56	6.56
1933	Rubber gum	Kg	655.00	655.00	655.00	655.00
1934	Rustic stair tiles country made	sqm	968.76	968.76	968.76	968.76

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1935	Rustic stair tiles foreign (China/equivalent) made	sqm	1,022.58	1,022.58	1,022.58	1,022.58
1936	S.S. angle	each	100.00	100.00	100.00	100.00
1937	S.S. Chain Hinge	each	250.00	250.00	250.00	250.00
1938	S.S. screws	each	2.50	2.50	2.50	2.50
1939	Safety Belt	each	400.00	400.00	400.00	400.00
1940	Safety Helmet	each	200.00	200.00	200.00	200.00
1941	Safety Net (chain link with 24BWG wire net)	sqm	269.10	269.10	269.10	269.10
1942	Safety Shade(with 22BWG MS sheet)	sqm	460.16	460.16	460.16	460.16
1943	Sand (F.M. 2.2)	cum	1,899.95	1,836.38	1,839.91	1,861.10
1944	Sand paper	each	16.00	16.00	16.00	16.00
1945	Scaffolding - Plumbing	m	11.48	11.48	11.48	11.48
1946	Scaffolding including safety provision	sqm	129.17	129.17	129.17	129.17
1947	Screw	nos	1.00	1.00	1.00	1.00
1948	Screw for hollow partition	each	2.30	2.30	2.30	2.30
1949	Screws	each	1.00	1.00	1.00	1.00
1950	Sealant	Kg	3,100.00	3,100.00	3,100.00	3,100.00
1951	Sealant Gum	each	405.00	405.00	405.00	405.00
1952	Sealer for acrylic plastic emulsion paint	litre	172.00	172.00	172.00	172.00
1953	Sealer for exterior emulsion paint	litre	195.00	195.00	195.00	195.00
1954	Sealer/Primer (for texture paint)	litre	246.00	246.00	246.00	246.00
1955	Seasoning of timber in plant	cum	5,826.98	5,826.98	5,826.98	5,826.98
1956	Self leveling epoxy coating (3 mm thickness)	sqm	1,453.14	1,453.14	1,453.14	1,453.14
1957	Self leveling epoxy coating (4 mm thickness)	sqm	1,733.00	1,733.00	1,733.00	1,733.00
1958	Self leveling epoxy coating (5 mm thickness)	sqm	2,421.90	2,421.90	2,421.90	2,421.90
1959	Sensor Type self closing pillar cock	each	7,360.00	7,360.00	7,360.00	7,360.00
1960	Shal ballah (avg. dia 6") for driving	m	262.40	262.40	255.84	255.84
1961	Shari cloth	each	30.00	30.00	30.00	30.00
1962	Shear stud of variable dia of grade 275 Mpa	Kg	126.00	126.00	126.00	126.00
1963	Sieve analysis for sand from different layer	test	3,800.00	3,800.00	3,800.00	3,800.00
1964	Silicon (1 piece 300 mm)	each	325.00	325.00	325.00	325.00
1965	Silicon Sealant	kg	550.00	550.00	550.00	550.00
1966	Silkarai/Chikrashi	cum	88,287.50	88,287.50	88,287.50	88,287.50
1967	Single bowl stainless steel sink: Approx. 1016 X 508 mm size single bowl with sink tray	each	3,991.50	3,991.50	3,991.50	3,991.50
1968	Single bowl stainless steel sink: Approx. 508 X 406 mm size single bowl without sink tray	each	1,705.50	1,705.50	1,705.50	1,705.50
1969	Single bowl stainless steel sink: Approx. 508 X 457 mm size single bowl without sink tray	each	1,795.50	1,795.50	1,795.50	1,795.50
1970	Single bowl stainless steel sink: Approx. 610 X 457 mm size single bowl without sink tray	each	2,115.00	2,115.00	2,115.00	2,115.00
1971	Single bowl stainless steel sink: Approx. 762 X 457 mm size single boel with sink tray	each	3,100.00	3,100.00	3,100.00	3,100.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
1972	Single bowl stainless steel sink: Approx. 914 X 457 mm size single bowl with sink tray	each	3,200.00	3,200.00	3,200.00	3,200.00
1973	Single handlel/lever basin mixer	each	2,395.00	2,395.00	2,395.00	2,395.00
1974	Single lever angle stop mixer	each	1,756.00	1,756.00	1,756.00	1,756.00
1975	Siphon set for plastic low-down	set	438.00	438.00	438.00	438.00
1976	Sitkani	each	74.00	74.00	74.00	74.00
1977	Skim coat	Kg	2,000.00	2,000.00	2,000.00	2,000.00
1978	Slacked Lime	kg	25.00	25.00	25.00	25.00
1979	Slaked lime	Kg	25.00	25.00	25.00	25.00
1980	Sliding door /window Mohiar	m	4.92	4.92	4.92	4.92
1981	Sliding door /window wheel	nos	80.00	80.00	80.00	80.00
1982	Sliding door lock	set	200.00	200.00	200.00	200.00
1983	Sliding door show lock	set	110.00	110.00	110.00	110.00
1984	Sliding frame	m	124.64	124.64	124.64	124.64
1985	Sliding frame: reinforcement	m	101.68	101.68	101.68	101.68
1986	Sliding glass bead (Profile)	m	68.88	75.44	75.44	75.44
1987	Sliding interlock	m	44.28	44.28	44.28	44.28
1988	Sliding Neoprene	m	9.18	9.18	9.18	9.18
1989	Sliding sash	m	141.04	141.04	141.04	141.04
1990	Sliding sash: reinforcement	m	101.68	101.68	101.68	101.68
1991	Sliding window key lock	set	90.00	90.00	90.00	90.00
1992	Solid block of 240mmx114mmx70mm	each	13.00	13.00	13.00	13.00
1993	Solid square bar	M. ton	77,000.00	77,000.00	77,000.00	77,000.00
1994	Solid SS royal bolt with cap	each	40.00	40.00	40.00	40.00
1995	Solution big size	each	500.00	500.00	500.00	500.00
1996	Solvent cement	litre	850.00	850.00	850.00	850.00
1997	Solvent stain mahogany	litre	3,000.00	3,000.00	3,000.00	3,000.00
1998	Solvent stain teak	litre	1,505.00	1,505.00	1,505.00	1,505.00
1999	Solvent stain walnut	litre	3,000.00	3,000.00	3,000.00	3,000.00
2000	Sp. gr. test	test	235.00	235.00	235.00	235.00
2001	Spacer (Link) / Plastic Runner Spring	each	9.75	9.75	9.75	9.75
2002	Spade (kodal)	each	450.00	450.00	450.00	450.00
2003	Spider knob - Plumbing	each	85.00	85.00	85.00	85.00
2004	Spirit	kg	330.69	330.69	330.69	330.69
2005	Spray machine (plaotic), 5ltr capacity	each	1,800.00	1,800.00	1,800.00	1,800.00
2006	Spring (China)	m	59.00	59.00	59.00	59.00
2007	Spring box for rolling shutter for Collapsible Gate, M.S. Gate, Rolling Shutter Etc.	each	80.00	80.00	80.00	80.00
2008	SS 12mm dia Royal Bolt cap	each	30.00	30.00	30.00	30.00
2009	SS 20mm dia end cap	each	40.00	40.00	40.00	40.00
2010	SS 62mm dia end cap	each	70.00	70.00	70.00	70.00
2011	SS base cup 38 mm	each	230.00	230.00	230.00	230.00
2012	SS galvanized barbed wire (dia 2.5 mm)	Kg	800.00	800.00	800.00	800.00
2013	SS Glass Holder	each	225.00	225.00	225.00	225.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2014	SS hole cutting	each	10.00	10.00	10.00	10.00
2015	SS hollow round pipe 1.5mm thickness	Kg	300.00	300.00	300.00	300.00
2016	SS Pad lock	each	500.00	500.00	500.00	500.00
2017	SS pipe post with glass holder	m	1,131.60	1,131.60	1,131.60	1,131.60
2018	SS rod (grade A201)	Kg	300.00	300.00	300.00	300.00
2019	SS rod (grade A304)	Kg	400.00	400.00	400.00	400.00
2020	SS Screws	dozen	30.00	30.00	30.00	30.00
2021	SS Spider Set	each	9,500.00	9,500.00	9,500.00	9,500.00
2022	SS U Channel	m	672.40	672.40	672.40	672.40
2023	Stainless steel toilet paper holder	each	400.00	400.00	400.00	400.00
2024	Stainless steel soap tray	each	450.00	450.00	450.00	450.00
2025	Stair tiles size 300 mm x 600 mm foreign (China/equivalent) made	sqm	1,184.04	1,184.04	1,184.04	1,184.04
2026	Standard Al Karin Astor	gallon	850.00	850.00	850.00	850.00
2027	Standard Doco Paint	litre	1,700.00	1,700.00	1,700.00	1,700.00
2028	Standard exterior emulsion paint	litre	310.00	310.00	310.00	310.00
2029	Standard NC Thinner for doco paint	gallon	700.00	700.00	700.00	700.00
2030	Standard Silicon based paint/coating	litre	350.00	350.00	350.00	350.00
2031	Standard Steel hand trolly	each	6,200.00	6,200.00	6,200.00	6,200.00
2032	Standard synthetic enamel paint	litre	220.00	220.00	220.00	220.00
2033	Standard Tua colour	litre	270.00	270.00	270.00	270.00
2034	Steel clamp (8")	each	11.00	11.00	11.00	11.00
2035	steel formika	each	25.00	25.00	25.00	25.00
2036	Steel funna, 450 mm size wirth wooden handle	each	370.00	370.00	370.00	370.00
2037	Steel rowel bolt	each	42.00	42.00	42.00	42.00
2038	Steel washer	each	8.50	8.50	8.50	8.50
2039	STEEL: Grade 500(500Mpa), BDS-6935-2016 and ratio fy to fu => 1.25 [Bulk]	M. ton	87,000.00	87,000.00	87,000.00	87,000.00
2040	Stick / tilt wand	each	8.50	8.50	8.50	8.50
2041	Stone lime	Kg	20.00	20.00	20.00	20.00
2042	Stop ring	each	8.50	8.50	8.50	8.50
2043	Stopper handle	each	22.00	22.00	22.00	22.00
2044	Sun-star Glue	litre	120.00	120.00	120.00	120.00
2045	Super bit	nos	174.00	174.00	174.00	174.00
2046	Support and cord drum	each	6.50	7.50	6.50	6.50
2047	Surki	m3	3,108.00	3,108.00	3,051.00	3,051.00
2048	Surki from 1st class brick	cum	3,990.60	3,990.60	3,849.34	3,849.34
2049	Surveyer to pile layout, at hydraulic pile driver	day	1,200.00	1,200.00	1,200.00	1,200.00
2050	Sweeper for ODD JOB	day	800.00	800.00	750.00	750.00
2051	Swing Door Closure	set	3,200.00	3,200.00	3,200.00	3,200.00
2052	Swing door clouser	set	3,200.00	3,200.00	3,200.00	3,200.00
2053	Swing Door Lock	set	750.00	750.00	750.00	750.00
2054	Swing Door Mohiar	m	16.40	16.40	16.40	16.40

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2055	Synthetic Enamel Paint	litre	290.00	290.00	290.00	290.00
2056	Synthetic enamel paint primer/ sealer	litre	246.00	246.00	246.00	246.00
2057	synthetic net	m	203.36	203.36	203.36	203.36
2058	Synthetic polyvinyl (S.P.) distemper	litre	102.00	102.00	102.00	102.00
2059	Synthetic polyvinyl (S.P.) distemper primer /sealer	litre	175.00	175.00	175.00	175.00
2060	Tape	each	24.00	24.00	24.00	24.00
2061	Tape holder	each	6.50	6.50	6.50	6.50
2062	Tar boiler	day	1,120.00	1,120.00	1,120.00	1,120.00
2063	Tarpin	gallon	280.00	280.00	280.00	280.00
2064	Tassel	each	5.00	5.00	5.00	5.00
2065	Teak Chambal	cum	130,665.50	127,134.00	132,431.25	132,431.25
2066	Teflon	nos	17.00	17.00	17.00	17.00
2067	Tempered glass thickness 10.0mm	sqm	3,013.92	3,013.92	3,013.92	3,013.92
2068	Temporary camp at site for soil investigation work	site	1,250.00	1,250.00	1,250.00	1,250.00
2069	Textured coating including sealer, texture coat & top coat	litre	270.00	270.00	270.00	270.00
2070	T-frame	m	145.00	145.00	145.00	145.00
2071	Thinner for alkyd based wood varnishing	litre	131.00	131.00	131.00	131.00
2072	Thinner for anti corrosive red oxide paint	litre	120.00	120.00	120.00	120.00
2073	Thinner for oil-based paint (turpentine) for general purpose	litre	130.00	130.00	130.00	130.00
2074	Thinner T-4 of Ready Mixed Road Marking Paint	liter	208.00	208.00	208.00	208.00
2075	Thinner T-6 of Synthetic Enamel Paint	liter	130.00	130.00	130.00	130.00
2076	Thread bar	each	10.50	10.50	10.50	10.50
2077	Thread Rod	m	98.40	98.40	98.40	98.40
2078	Tie ft ball	pair	40.00	40.00	40.00	40.00
2079	Tie plunger	each	80.00	80.00	80.00	80.00
2080	Tiles grout / joint filler	Kg	85.00	85.00	85.00	85.00
2081	T-inner joint clamp	each	10.00	10.00	10.00	10.00
2082	Top and bottom clamping device	set	1,202.00	1,202.00	1,202.00	1,202.00
2083	Top hinge	set	1,250.00	1,250.00	1,250.00	1,250.00
2084	Total Alkalinity	test	600.00	600.00	600.00	600.00
2085	Total hardness	test	1,100.00	1,100.00	1,100.00	1,100.00
2086	Triple super phosphate (TSP)	Kg	30.00	30.00	30.00	30.00
2087	Truck fare for carrying diesel hammer mounted rig	trip	15,200.00	15,200.00	15,200.00	15,200.00
2088	Truck fare within 20 km including loading & un-loading	trip	1,850.00	1,850.00	1,850.00	1,850.00
2089	T-section (cross T) for false ceiling(Anodized at any colour)	m	78.72	78.72	78.72	78.72
2090	T-section (main T) for false ceiling(Anodized at any colour)	m	91.84	91.84	91.84	91.84

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2091	Tube-well head mistry	day	800.00	800.00	750.00	750.00
2092	Tube-well mistry	day	700.00	700.00	650.00	650.00
2093	Tuli / Hockey brush	each	30.00	30.00	30.00	30.00
2094	Turbidity	test	500.00	500.00	500.00	500.00
2095	Turn-buckle including tie rod	set	450.00	450.00	450.00	450.00
2096	Ultra Violet (UV) Lacquer Polish on both sides of wooden surface	sqm	3,767.40	3,767.40	3,767.40	3,767.40
2097	Unconfined compression	test	1,730.00	1,730.00	1,730.00	1,730.00
2098	Unit weight (wet & dry)	test	290.00	290.00	290.00	290.00
2099	Upset forging parallel thread rebar Coupler for (Grade 400) 20mm dia deformed bar	each	110.00	110.00	110.00	110.00
2100	Upset forging parallel thread rebar Coupler for (Grade 400) 25mm dia deformed bar	each	200.00	200.00	200.00	200.00
2101	Upset forging parallel thread rebar Coupler for (Grade 400) 32mm dia deformed bar	each	300.00	300.00	300.00	300.00
2102	uPVC hollow section wall thickness 2.5 mm	m	950.00	950.00	950.00	950.00
2103	uPVC plastic door shutter with uPVC plastic frame with panel wall thickness 1.7 mm-2.2 mm (size: 750mm X 2100mm)	set	4,000.00	4,000.00	4,000.00	4,000.00
2104	uPVC plastic door shutter with uPVC plastic frame with panel wall thickness 2.4 mm-2.76 mm (size: 750mm X 2100mm)	set	8,000.00	8,000.00	8,000.00	8,000.00
2105	Urea Fertilizer	kg	25.00	25.00	25.00	25.00
2106	Used and empty Bitumen drum	each	250.00	250.00	250.00	250.00
2107	U-shape hot rolled steel sheet pile	M. ton	95,000.00	95,000.00	95,000.00	95,000.00
2108	Varnish (Matt)	litre	290.00	290.00	290.00	290.00
2109	Vertimec,1-50ml bottle	each	120.00	120.00	120.00	120.00
2110	Vibrating roller Pedestrain (0.5 - 1 ton)	day	3,500.00	3,500.00	3,500.00	3,500.00
2111	vinyl or PVC coated strip	m	305.04	305.04	305.04	305.04
2112	Visual Inspection & Classification of soil for engineering purposes	test	180.00	180.00	180.00	180.00
2113	Wall bit (9/64)	nos	42.00	42.00	42.00	42.00
2114	Wall paper	sqm	667.37	667.37	667.37	667.37
2115	Wall tiles less than, equal or equivalent to 250 mm x 750 mm in sizes	sqm	979.52	979.52	979.52	979.52
2116	Wash basin (including half-pedestal) Approx. 510X 400 mm size, minimum weight 15 kg	each	2,060.00	2,060.00	2,060.00	2,060.00
2117	Wash basin (including half-pedestal) Approx. 550 X 460 mm size, minimum weigh 20.0 kg	each	4,690.00	4,690.00	4,690.00	4,690.00
2118	Wash basin (including half-pedestal) Approx. 550X 440 mm size, minimum weight 17 kg	each	3,880.00	3,880.00	3,880.00	3,880.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2119	Wash basin (including half-pedestal) Approx. 600X 500 mm size, minimum weight 18.5 kg	each	4,550.00	4,550.00	4,550.00	4,550.00
2120	Wash basin excluding pedestal Corner Basin: Approx. 460X 390 mm size, minimu weight 15.0 kg	each	2,110.00	2,110.00	2,110.00	2,110.00
2121	Wash basin excluding pedestal Corner Basin: Approx. 540X 400 mm size, minimum weight 7.5 kg	each	1,350.00	1,350.00	1,350.00	1,350.00
2122	Wash basin excluding pedestal Over Counter: Approx. 400X 200 mm, minimum weight 6.0 kg	each	1,300.00	1,300.00	1,300.00	1,300.00
2123	Wash basin excluding pedestal Over Counter: Approx. 445X 345 mm, minimum weight 7.0 kg	each	1,530.00	1,530.00	1,530.00	1,530.00
2124	Wash basin excluding pedestal Over Counter: Approx. 560 X 475 mm size, minimum weight 10.0 kg	each	2,050.00	2,050.00	2,050.00	2,050.00
2125	Wash basin excluding pedestal Over Counter:Approx. 535X 435 mm, minimum weight 7.5 kg	each	1,970.00	1,970.00	1,970.00	1,970.00
2126	Wash basin excluding pedestal Table Top: Approx. 400X 400 mm size, minimum weight 6.0 kg	each	2,920.00	2,920.00	2,920.00	2,920.00
2127	Wash basin excluding pedestal Table Top: Approx. 450X 450 mm size :minimum weight 10.0 kg	each	3,760.00	3,760.00	3,760.00	3,760.00
2128	Wash basin excluding pedestal Table Top: Approx. 480X 370 mm size, minimu weight 10.0 kg	each	3,940.00	3,940.00	3,940.00	3,940.00
2129	Wash basin excluding pedestal Table Top: Approx. 485X 380 mm size, minimum weight 11.0 kg	each	4,850.00	4,850.00	4,850.00	4,850.00
2130	Wash basin excluding pedestal Under Counter: Approx. 515 X 365 mm size, minimum weight 9.5 kg	each	3,225.00	3,225.00	3,225.00	3,225.00
2131	Wash basin excluding pedestal Under Counter: Approx. 570 X 420 mm size, minimum weight 7.5 kg	each	1,905.00	1,905.00	1,905.00	1,905.00
2132	Wash basin including pedastal Approx. 436 x 343 mm, minimum weight 14.8 kg	each	1,784.00	1,784.00	1,784.00	1,784.00
2133	Wash basin including pedastal Approx. 457 x 406 mm, minimum weight 15.3 kg	each	1,985.00	1,985.00	1,985.00	1,985.00
2134	Wash basin including pedastal Approx. 495 x 394 mm, minimum weight 17.3 kg	each	2,250.00	2,250.00	2,250.00	2,250.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2135	Wash basin including pedastal Approx. 500 x 450 mm, minimum weight 25.6 kg	each	4,490.00	4,490.00	4,490.00	4,490.00
2136	Wash basin including pedastal Approx. 508 x 394 mm, minimum weight 17.3 kg	each	2,100.00	2,100.00	2,100.00	2,100.00
2137	Wash basin including pedastal Approx. 513 x 432 mm, minimum weight 17.8 kg	each	2,350.00	2,350.00	2,350.00	2,350.00
2138	Wash basin including pedastal Approx. 520 x 425 mm, minimum weight 26.2 kg	each	4,770.00	4,770.00	4,770.00	4,770.00
2139	Wash basin including pedastal Approx. 521 x 419 mm, minimum weight 17.7 kg	each	2,080.00	2,080.00	2,080.00	2,080.00
2140	Wash basin including pedastal Approx. 525 x 415 mm, minimum weight 27.4 kg	each	5,540.00	5,540.00	5,540.00	5,540.00
2141	Wash basin including pedastal Approx. 540 x 450 mm, minimum weight 20.1 kg	each	2,140.00	2,140.00	2,140.00	2,140.00
2142	Wash basin including pedastal Approx. 550 x 470 mm, minimum weight 34 kg	each	7,100.00	7,100.00	7,100.00	7,100.00
2143	Wash basin including pedastal Approx. 559 x 483 mm, minimum weight 24.5 kg	each	3,450.00	3,450.00	3,450.00	3,450.00
2144	Wash basin including pedastal Approx. 560 x 450 mm, minimum weight 22.8 kg	each	2,655.00	2,655.00	2,655.00	2,655.00
2145	Wash basin including pedastal Approx. 564 x 419 mm, minimum weight 18.8 kg	each	2,450.00	2,450.00	2,450.00	2,450.00
2146	Wash basin including pedastal Approx. 572 x 437 mm, minimum weight 20.3 kg	each	2,745.00	2,745.00	2,745.00	2,745.00
2147	Wash basin including pedastal Approx. 584 x 437 mm, minimum weight 20 kg	each	2,600.00	2,600.00	2,600.00	2,600.00
2148	Wash basin including pedastal Approx. 600 x 440 mm, minimum weight 26 kg	each	5,100.00	5,100.00	5,100.00	5,100.00
2149	Wash basin including pedastal Approx. 605 x 485 mm, minimum weight 22.5 kg	each	3,040.00	3,040.00	3,040.00	3,040.00
2150	Wash basin including pedastal Approx. 630 x 520 mm, minimum weight 28 kg	each	3,250.00	3,250.00	3,250.00	3,250.00
2151	Wash basin including pedastal Approx. 648 x 488 mm, minimum weight 20 kg	each	2,975.00	2,975.00	2,975.00	2,975.00
2152	Wash basin including pedastal Approx. 650 x 510 mm, minimum weight 25 kg	each	5,600.00	5,600.00	5,600.00	5,600.00
2153	Wash basin including pedastal Approx. 656 x 510 mm, minimum weight 26 kg	each	4,410.00	4,410.00	4,410.00	4,410.00
2154	Wash basin including pedastal Approx. 660 x 525 mm, minimum weight 31.5 kg	each	5,035.00	5,035.00	5,035.00	5,035.00
2155	Wash basin including pedastal Approx. 665 x 490 mm, minimum weight 29.5 kg	each	4,875.00	4,875.00	4,875.00	4,875.00
2156	Water dispenser	each	3,500.00	3,500.00	3,500.00	3,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2157	Water proof, damp proof, dry & breathable cement STN-EN - 1015-11 , compressive strength 34 MPa), Max depth of water penetration into hardened plaster is < 1 mm (25 kg bag)(Only for plaster work)	bag	1,800.00	1,800.00	1,800.00	1,800.00
2158	Water proofing paper (12 size)	each	22.00	22.00	22.00	22.00
2159	Water proofing paper (320 size)	each	24.00	24.00	24.00	24.00
2160	Water purification capacity: 10 L/hr, storage 6 litre; RO+MF	each	14,500.00	14,500.00	14,500.00	14,500.00
2161	Water purification capacity: 10-12 L/hr, digital display, storage minimum 9 litre, 7 stage purification; Ro+UV+MF	each	25,500.00	25,500.00	25,500.00	25,500.00
2162	Water purification capacity: 15 L/hr; storage 8 litre, RO+UF	each	17,500.00	17,500.00	17,500.00	17,500.00
2163	Water purification capacity: 20 L/hr, minimum storage 8 litre, 6 stage purification; RO+UV+MF	each	23,000.00	23,000.00	23,000.00	23,000.00
2164	Water purification capacity: 60 L/hr, at least 5 stage filtration RO purifier ;	each	75,000.00	75,000.00	75,000.00	75,000.00
2165	Water reducing chemical admixture : Type-A	liter	150.00	150.00	150.00	150.00
2166	Water reducing high range admixture in concrete: Type - F	litre	210.00	210.00	210.00	210.00
2167	Water reducing high range chemical (for batching/RMC) admixture Type G	Kg	140.00	140.00	140.00	140.00
2168	Water reducing high range retarding admixture in concrete: Type - G	litre	155.00	155.00	155.00	155.00
2169	Water sealed heavy type 18" / 450 mm dia C.I. M.H. cover having locking arrangement	each	910.00	910.00	910.00	910.00
2170	Water sealed heavy type 24" / 600 mm dia C.I. M.H. cover having locking arrangement	each	1,400.00	1,400.00	1,400.00	1,400.00
2171	Water-proofing PVC membrane	sqm	610.00	610.00	610.00	610.00
2172	Water-reducing and accelerating chemical admixture : Type-E	liter	180.00	180.00	180.00	180.00
2173	Water-reducing and retrading chemical admixture : Type-D	liter	210.00	210.00	210.00	210.00
2174	Water-reducing high range and retrading chemical admixture : Type-G	liter	155.00	155.00	155.00	155.00
2175	Water-reducing high range chemical admixture : Type-F	liter	210.00	210.00	210.00	210.00
2176	Wax for polishing	Kg	300.00	300.00	300.00	300.00
2177	Weight plate/weight bar	each	11.50	11.00	11.00	11.00
2178	Well decomposed cow dung	cum	882.88	882.88	882.88	882.88
2179	White Cement	kg	27.00	27.00	27.00	27.00
2180	White Jute Mat	m	70.00	70.00	70.00	70.00
2181	Wood grain filler	Kg	820.00	820.00	820.00	820.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2182	Wood plastic composite (Wpiece) door shutter & door frame (Door size: 6'9" x 2'6")	set	14,111.00	14,111.00	14,111.00	14,111.00
2183	Wood plastic composite (Wpiece) door shutter & door frame (Door size: 6'9" x 3'0")	set	17,059.00	17,059.00	17,059.00	17,059.00
2184	Wood plastic composite (Wpiece) door shutter & door frame (Door size: 6'9" x 3'4")	set	18,485.00	18,485.00	18,485.00	18,485.00
2185	Wood putty clear	Kg	900.00	900.00	900.00	900.00
2186	Wood varnishing: Matt (alkyd based)	litre	290.00	290.00	290.00	290.00
2187	Wood varnishing: Yacht (alkyd based)	litre	280.00	280.00	280.00	280.00
2188	Wooden plank (mango)	cum	24,720.50	24,720.50	24,720.50	24,720.50
	Water Resources Works Related Items					
2189	100mm dia GI pipe wall thickness 4.05mm	m	1,978.00	1,978.00	1,978.00	1,978.00
2190	100mm dia GI pipe with socket(3.65mm Thick)	m	1,978.00	1,978.00	1,978.00	1,978.00
2191	100mm dia PVC pipe (3.4mm to 4.0mm thick of Aziz/Lira/National/Polymar)	m	265.00	265.00	265.00	265.00
2192	12 mm CP Concealed fixed sink cock	each	875.00	875.00	875.00	875.00
2193	160mm dia PVC Bend,wall thickness2.5mm&1.52m Length	each	1,120.00	1,120.00	1,120.00	1,120.00
2194	160mm dia PVC end Cap, wall thickness 2mm &0.56m Length	each	540.00	540.00	540.00	540.00
2195	18 BWG GI Wire Net	sqm	176.00	176.00	176.00	176.00
2196	180mm dia PVC Bend,wall thickness2.8mm&1.52m Length	each	1,370.00	1,370.00	1,370.00	1,370.00
2197	180mm dia PVC end Cap, wall thickness 2.3mm &0.56m Length	each	615.00	615.00	615.00	615.00
2198	200 mm dia, Wall Thickness: 8.2mm, ERW, Schedule 40	rm	8,839.60	8,839.60	8,839.60	8,839.60
2199	200mm dia drasser	no	4,575.00	4,575.00	4,575.00	4,575.00
2200	200mm dia Flexible Pipe joint	each	8,800.00	8,800.00	8,800.00	8,800.00
2201	200mm dia MS gate valve	each	35,805.00	35,805.00	35,805.00	35,805.00
2202	200mm dia PVC Bend,wall thickness3.2mm&1.52m Length	each	1,680.00	1,680.00	1,680.00	1,680.00
2203	200mm dia PVC end Cap, wall thickness 2.5mm &0.56m Length	each	680.00	680.00	680.00	680.00
2204	200mm Flanks 10K	each	600.00	600.00	600.00	600.00
2205	200mm PVC pipe 12mm Thickness	m	2,650.00	2,650.00	2,650.00	2,650.00
2206	20mm dia brass stop cock	each	715.00	715.00	715.00	715.00
2207	225mm dia drasser	no	4,850.00	4,850.00	4,850.00	4,850.00
2208	225mm dia MS gate valve	each	38,808.00	38,808.00	38,808.00	38,808.00
2209	225mm dia PVC Bend,wall thickness3.5mm&1.52m Length	each	2,000.00	2,000.00	2,000.00	2,000.00
2210	225mm dia PVC end Cap, wall thickness 2.8mm &0.56m Length	each	890.00	890.00	890.00	890.00
2211	250mm dia drasser	no	5,100.00	5,100.00	5,100.00	5,100.00
2212	250mm dia MS gate valve	each	40,425.00	40,425.00	40,425.00	40,425.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2213	250mm dia PVC Bend,wall thickness3.9mm&1.52m Length	each	2,540.00	2,540.00	2,540.00	2,540.00
2214	250mm dia PVC end Cap, wall thickness 3.1mm &0.56m Length	each	990.00	990.00	990.00	990.00
2215	280mm dia drasser	no	5,700.00	5,700.00	5,700.00	5,700.00
2216	280mm dia MS gate valve	each	44,467.50	44,467.50	44,467.50	44,467.50
2217	280mm dia PVC Bend,wall thickness4.4mm&1.52m Length	each	3,150.00	3,150.00	3,150.00	3,150.00
2218	280mm dia PVC end Cap, wall thickness 3.5mm &0.56m Length	each	1,200.00	1,200.00	1,200.00	1,200.00
2219	300mm uPVC Pipe -7.8mm wall thickness	m	3,096.00	3,096.00	3,096.00	3,096.00
2220	315mm dia drasser	no	6,200.00	6,200.00	6,200.00	6,200.00
2221	315mm dia MS gate valve	each	51,975.00	51,975.00	51,975.00	51,975.00
2222	315mm dia PVC Bend,wall thickness4.9mm&1.52m Length	each	4,150.00	4,150.00	4,150.00	4,150.00
2223	315mm dia PVC end Cap, wall thickness 4.0mm &1.42m Length	each	3,075.00	3,075.00	3,075.00	3,075.00
2224	355mm dia drasser	no	6,800.00	6,800.00	6,800.00	6,800.00
2225	355mm dia MS gate valve	each	58,212.00	58,212.00	58,212.00	58,212.00
2226	355mm dia PVC Bend,wall thickness5.6mm&1.52m Length	each	5,200.00	5,200.00	5,200.00	5,200.00
2227	355mm dia PVC end Cap, wall thickness 4.4mm &1.42m Length	each	3,950.00	3,950.00	3,950.00	3,950.00
2228	400mm dia drasser	no	7,400.00	7,400.00	7,400.00	7,400.00
2229	400mm dia MS gate valve	each	64,680.00	64,680.00	64,680.00	64,680.00
2230	400mm dia PVC Bend,wall thickness6.3mm&1.98m Length	each	7,700.00	7,700.00	7,700.00	7,700.00
2231	400mm dia PVC end Cap, wall thickness 5.0mm &1.42m Length	each	4,900.00	4,900.00	4,900.00	4,900.00
2232	40mm dia GI pipe of 2.9mm wall thick	m	649.00	649.00	649.00	649.00
2233	450mm dia drasser	no	7,700.00	7,700.00	7,700.00	7,700.00
2234	450mm dia MS gate valve	each	71,148.00	71,148.00	71,148.00	71,148.00
2235	450mm dia PVC Bend,wall thickness7.0mm&1.98m Length	each	9,400.00	9,400.00	9,400.00	9,400.00
2236	450mm dia PVC end Cap, wall thickness 5.6mm &1.42m Length	each	6,050.00	6,050.00	6,050.00	6,050.00
2237	50 PSI API 5L, Grade-B ERW M.S. Pipe 100 mm ND (114.30 mm OD)	m	2,624.00	2,624.00	2,624.00	2,624.00
2238	50 PSI API 5L, Grade-B ERW M.S. Pipe 12mm ND (20.0mm OD)	m	164.00	164.00	164.00	164.00
2239	50 PSI API 5L, Grade-B ERW M.S. Pipe 20 mm ND (26.70 mm OD)	m	216.48	216.48	216.48	216.48
2240	50 PSI API 5L, Grade-B ERW M.S. Pipe 25 mm ND (33.40 mm OD)	m	341.12	341.12	341.12	341.12
2241	50 PSI API 5L, Grade-B ERW M.S. Pipe 50 mm ND (60.30 mm OD)	m	705.20	705.20	705.20	705.20

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2242	50 PSI API 5L, Grade-B ERW M.S. Pipe 75 mm ND (88.90 mm OD)	m	1,312.00	1,312.00	1,312.00	1,312.00
2243	500mm dia drasser	no	8,200.00	8,200.00	8,200.00	8,200.00
2244	500mm dia MS gate valve	each	76,807.50	76,807.50	76,807.50	76,807.50
2245	500mm dia PVC Bend,wall thickness7.8mm&1.98m Length	each	11,400.00	11,400.00	11,400.00	11,400.00
2246	500mm dia PVC end Cap, wall thickness 6.2mm &1.42m Length	each	7,450.00	7,450.00	7,450.00	7,450.00
2247	50mm dia GI pipe of 2.9mm wall thick	m	820.00	820.00	820.00	820.00
2248	50mm dia GI pipe wall thickness 2.90mm	m	705.00	705.00	705.00	705.00
2249	50mm dia PVC cap (best quality)	each	100.00	100.00	100.00	100.00
2250	50mm PVC Pipe-2.5mm to 3mm wall thick	m	125.00	125.00	125.00	125.00
2251	6 ply Nylon Net	sqm	59.40	59.40	59.40	59.40
2252	6.6 - 7.6mm thick 150mm dia PVC pipe ('C' Class)	m	1,191.00	1,191.00	1,191.00	1,191.00
2253	600 mm dia. Water sealed C I Manhole Cover	each	1,400.00	1,400.00	1,400.00	1,400.00
2254	600mm uPVC Pipe	m	9,979.20	9,979.20	9,979.20	9,979.20
2255	75mm PVC Pipe -2.9mm to 3.4mm wall thick	m	215.00	215.00	215.00	215.00
2256	900mm uPVC Pipe	m	12,474.00	12,474.00	12,474.00	12,474.00
2257	Bevel Gear (315 BHN Steel, D=306mm)	each	5,832.20	5,832.20	5,832.20	5,832.20
2258	Brass gate valve 100 mm dia	each	6,200.00	6,200.00	6,200.00	6,200.00
2259	Brass gate valve 12 mm dia	each	275.00	275.00	275.00	275.00
2260	Brass gate valve 20 mm dia	each	400.00	400.00	400.00	400.00
2261	Brass gate valve 25 mm dia	each	470.00	470.00	470.00	470.00
2262	Brass gate valve 32 mm dia	each	680.00	680.00	680.00	680.00
2263	Brass gate valve 40 mm dia	each	750.00	750.00	750.00	750.00
2264	Brass gate valve 50 mm dia	each	1,290.00	1,290.00	1,290.00	1,290.00
2265	Brass gate valve 62 mm dia	each	2,800.00	2,800.00	2,800.00	2,800.00
2266	Brass gate valve 75 mm dia	each	3,850.00	3,850.00	3,850.00	3,850.00
2267	Bronze Lift Nut (D=105mm, H=222mm)	each	9,240.00	9,240.00	9,240.00	9,240.00
2268	Bronze Lift nut (D=146mm, L=200mm)	each	12,320.00	12,320.00	12,320.00	12,320.00
2269	Bronze Lock Washer (D=73mm, T=3mm)	each	231.00	231.00	231.00	231.00
2270	Brush Wood Bundle	each	68.20	68.20	68.20	68.20
2271	Caked Cement	m3	1,782.00	1,782.00	1,782.00	1,782.00
2272	Carbon-Di-Oxide Recharge	kg	205.70	205.70	205.70	205.70
2273	CI Bearing Plate (D=267mm, T=20mm)	each	1,647.80	1,647.80	1,647.80	1,647.80
2274	CI Bowl (D=419mm)	each	10,963.70	10,963.70	10,963.70	10,963.70
2275	CI Bracket	pair	450.00	450.00	450.00	450.00
2276	CI Gear Cover (D=381mm, H=63mm)	each	2,258.30	2,258.30	2,258.30	2,258.30
2277	CI Hand Wheel out (D=760mm)	each	11,203.50	11,203.50	11,203.50	11,203.50
2278	CI Spur Pinion (D=300mm, 60T)	each	4,119.50	4,119.50	4,119.50	4,119.50
2279	CI Wall Bracket	each	2,725.80	2,725.80	2,725.80	2,725.80
2280	CIB Cover Top (D=190, T=21, H=106mm)	each	6,320.60	6,320.60	6,320.60	6,320.60

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2281	Consumable 2" x 200' Black tape	roll	1,270.00	1,270.00	1,270.00	1,270.00
2282	Consumable 4" x 400' Black tape	roll	6,370.00	6,370.00	6,370.00	6,370.00
2283	Coupler (Min. Outer diameter 45mm & Length 150mm) including wastage 2% & carrying	each	176.00	176.00	176.00	176.00
2284	Coupler (Min. Outer diameter 56mm & Length 192mm) including wastage 2% & carrying	each	264.00	264.00	264.00	264.00
2285	Coupler (Min. Outer diameter 70mm & Length 240mm) including wastage 2% & carrying	each	440.00	440.00	440.00	440.00
2286	Drasser (150mm dia.)	each	3,950.00	3,950.00	3,950.00	3,950.00
2287	Dresser 200mm dia	each	1,650.00	1,650.00	1,650.00	1,650.00
2288	Fibre reinforced uPVC Lay-Flat hose,103mm dia wall thickness 1.40mm &weight 0.664 kg/m	m	193.00	193.00	193.00	193.00
2289	Fibre reinforced uPVC Lay-Flat hose,153mm dia wall thickness 2.0mm &weight 1.06 kg/m	m	335.00	335.00	335.00	335.00
2290	Fibre reinforced uPVC Lay-Flat hose,77mm dia wall thickness 1.36mm &weight 0.503 kg/m	m	142.00	142.00	142.00	142.00
2291	First Aid Box	each	3,234.00	3,234.00	3,234.00	3,234.00
2292	Fittings & accessories for GAS connection 1/2" x 2.5" nut-bolt (Gas connection)	each	32.00	32.00	32.00	32.00
2293	Fittings & accessories for GAS connection 12 x 6 mm gas stop cock	each	275.00	275.00	275.00	275.00
2294	Fittings & accessories for GAS connection 1st stage regulator for gas line works	each	150,000.00	150,000.00	150,000.00	150,000.00
2295	Fittings & accessories for GAS connection 20 mm plug/socket	each	385.00	385.00	385.00	385.00
2296	Fittings & accessories for GAS connection 20 x 20 mm gas stop cock	each	500.00	500.00	500.00	500.00
2297	Fittings & accessories for GAS connection 25 mm dia end cap	each	74.00	74.00	74.00	74.00
2298	Fittings & accessories for GAS connection 25 mm dia flange W/N 150 R.F.	each	392.00	392.00	392.00	392.00
2299	Fittings & accessories for GAS connection 25 mm dia gasket (asbestos)	each	200.00	200.00	200.00	200.00
2300	Fittings & accessories for GAS connection 25 mm ND dia plug valve class 150 R.F.	each	5,417.00	5,417.00	5,417.00	5,417.00
2301	Fittings & accessories for GAS connection 25 mm x 90o Elbow	each	150.00	150.00	150.00	150.00
2302	Fittings & accessories for GAS connection 25 x 25 x 25 mm N.D. Tee CD40	each	125.00	125.00	125.00	125.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2303	Fittings & accessories for GAS connection 25 x 25 x 25 mm service tee	each	3,575.00	3,575.00	3,575.00	3,575.00
2304	Fittings & accessories for GAS connection 5/8" x 3" long nut bolt including washer	each	75.00	75.00	75.00	75.00
2305	Fittings & accessories for GAS connection 50 mm dia end cap	each	67.00	67.00	67.00	67.00
2306	Fittings & accessories for GAS connection 50 mm dia gasket	each	156.00	156.00	156.00	156.00
2307	Fittings & accessories for GAS connection 50 mm flange W/N 150 R/F	each	815.00	815.00	815.00	815.00
2308	Fittings & accessories for GAS connection 50 mm insulating kits	each	980.00	980.00	980.00	980.00
2309	Fittings & accessories for GAS connection 50 mm ND dia ball valve class 150 R.F.	each	7,320.00	7,320.00	7,320.00	7,320.00
2310	Fittings & accessories for GAS connection 50 mm x 45o Elbow	each	77.00	77.00	77.00	77.00
2311	Fittings & accessories for GAS connection 50 mm x 90o Elbow	each	180.00	180.00	180.00	180.00
2312	Fittings & accessories for GAS connection 50 x 20 mm saddle	each	315.00	315.00	315.00	315.00
2313	Fittings & accessories for GAS connection 50 x 25 mm reducer	each	90.00	90.00	90.00	90.00
2314	Fittings & accessories for GAS connection 50 x 25 mm service tee	each	8,000.00	8,000.00	8,000.00	8,000.00
2315	Fittings & accessories for GAS connection 50 x 50 mm equal tee	each	10,025.00	10,025.00	10,025.00	10,025.00
2316	Fittings & accessories for GAS connection 50 x 50 x 25 mm N.D. Tee CD40	each	375.00	375.00	375.00	375.00
2317	Fittings & accessories for GAS connection 50 x 50 x 50 mm N.D. Tee CD40	each	227.00	227.00	227.00	227.00
2318	Fittings & accessories for GAS connection Cylinder heading line	each	12,500.00	12,500.00	12,500.00	12,500.00
2319	Fittings & accessories for GAS connection LP gas pigtal, ball valve and other necessary fittings	each set	2,500.00	2,500.00	2,500.00	2,500.00
2320	Fittings & accessories for GAS connection M.S. sheet cover supplied by Titas Gas T & D Co. Ltd.(for 2" dia above)	each	20,721.00	20,721.00	20,721.00	20,721.00
2321	Fittings & accessories for GAS connection MS seamless Schedule 40- 2" dia pipe line	m	4,920.00	4,920.00	4,920.00	4,920.00
2322	Fittings & accessories for GAS connection Testing & purging	m	22.00	22.00	22.00	22.00
2323	Fittings & accessories for GAS connection Valve Pit (Titas Gas T&D Co. Ltd. design & plan.) (for 2" dia above)	each	48,500.00	48,500.00	48,500.00	48,500.00
2324	Gate Valve (150mm dia.)	each	21,367.50	21,367.50	21,367.50	21,367.50

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2325	Hose Pipe 100mm dia	m	649.00	649.00	649.00	649.00
2326	Main Rubber Bag (10mm Thickness)	sqm	18,724.20	18,724.20	18,724.20	18,724.20
2327	Main Rubber Bag (11mm Thickness)	sqm	19,231.30	19,231.30	19,231.30	19,231.30
2328	Main Rubber Bag (12mm Thickness)	sqm	19,863.80	19,863.80	19,863.80	19,863.80
2329	Main Rubber Bag (13mm Thickness)	sqm	20,622.80	20,622.80	20,622.80	20,622.80
2330	Moving type hand shower	each	1,050.00	1,050.00	1,050.00	1,050.00
2331	Moving type push shower	each	650.00	650.00	650.00	650.00
2332	MS Bend (150mm dia.)	each	2,887.50	2,887.50	2,887.50	2,887.50
2333	MS Bend (200mm dia.)	each	2,200.00	2,200.00	2,200.00	2,200.00
2334	MS Bevel Pinion & Shaft (D=75mm, 15T)	each	3,014.00	3,014.00	3,014.00	3,014.00
2335	MS Check valve 200mm dia	each	7,700.00	7,700.00	7,700.00	7,700.00
2336	MS Crank	each	1,432.20	1,432.20	1,432.20	1,432.20
2337	MS flange (150mm dia.)	each	1,617.00	1,617.00	1,617.00	1,617.00
2338	MS flange for 200mm dia pipe	each	2,079.00	2,079.00	2,079.00	2,079.00
2339	MS flange for 225mm dia pipe	each	2,310.00	2,310.00	2,310.00	2,310.00
2340	MS flange for 250mm dia pipe	each	2,541.00	2,541.00	2,541.00	2,541.00
2341	MS flange for 280mm dia pipe	each	2,887.50	2,887.50	2,887.50	2,887.50
2342	MS flange for 355mm dia pipe	each	3,118.50	3,118.50	3,118.50	3,118.50
2343	MS flange for 400mm dia pipe	each	3,696.00	3,696.00	3,696.00	3,696.00
2344	MS flange for 450mm dia pipe	each	4,042.50	4,042.50	4,042.50	4,042.50
2345	MS flange for 500mm dia pipe	each	4,389.00	4,389.00	4,389.00	4,389.00
2346	MS Hex. Stop Nut (D=63mm)	each	1,219.90	1,219.90	1,219.90	1,219.90
2347	MS Lift Screw (D=18, L=1825mm)	each	3,637.70	3,637.70	3,637.70	3,637.70
2348	MS Mala Bend (150mm dia.)	each	3,234.00	3,234.00	3,234.00	3,234.00
2349	MS Mala Bend (200mm dia.)	each	4,174.50	4,174.50	4,174.50	4,174.50
2350	MS Pedestal (D=200/250mm, L=760mm)	each	8,913.30	8,913.30	8,913.30	8,913.30
2351	MS Pedestal Welded (D=140mm, L=680mm, T=6mm)	each	2,887.50	2,887.50	2,887.50	2,887.50
2352	MS Perforated Foot Valve (150mm dia)	each	5,197.50	5,197.50	5,197.50	5,197.50
2353	MS Perforated Foot Valve (200mm dia)	each	6,468.00	6,468.00	6,468.00	6,468.00
2354	MS Pipe (400mm internal dia with 6mm wall thickness)	m	7,854.00	7,854.00	7,854.00	7,854.00
2355	MS Pipe (450mm internal dia. with 6mm wall thickness)	m	10,798.70	10,798.70	10,798.70	10,798.70
2356	MS Pipe (600mm internal dia. With 7mm wall thickness)	m	14,437.50	14,437.50	14,437.50	14,437.50
2357	MS Pipe 200mm dia Tee	each	5,500.00	5,500.00	5,500.00	5,500.00
2358	MS Spur Pinion ((D=300mm, 15T)	each	1,631.30	1,631.30	1,631.30	1,631.30
2359	MS T-Joint (600mm X 450mm X 450mm)	each	17,613.20	17,613.20	17,613.20	17,613.20
2360	Nuts & Hinge Pin Hex. Head (ss, 25mmx150mm)	each	1,897.50	1,897.50	1,897.50	1,897.50
2361	Primer for GAS connection work	litre	700.00	700.00	700.00	700.00
2362	PVC Pipe: External Dia 160mm & wall thickness 3.20mm	m	540.00	540.00	540.00	540.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2363	PVC Pipe: External Dia 180mm & wall thickness 3.60mm	m	675.00	675.00	675.00	675.00
2364	PVC Pipe: External Dia 200mm & wall thickness 4.00mm	m	800.00	800.00	800.00	800.00
2365	PVC Pipe: External Dia 225mm & wall thickness 4.40mm	m	1,200.00	1,200.00	1,200.00	1,200.00
2366	PVC Pipe: External Dia 250mm & wall thickness 4.90mm	m	1,285.00	1,285.00	1,285.00	1,285.00
2367	PVC Pipe: External Dia 280mm & wall thickness 4.90mm	m	1,575.00	1,575.00	1,575.00	1,575.00
2368	PVC Pipe: External Dia 315mm & wall thickness 4.90mm	m	2,050.00	2,050.00	2,050.00	2,050.00
2369	PVC Pipe: External Dia 355mm & wall thickness 5.60mm	m	2,575.00	2,575.00	2,575.00	2,575.00
2370	PVC Pipe: External Dia 400mm & wall thickness 6.30mm	m	3,200.00	3,200.00	3,200.00	3,200.00
2371	PVC Pipe: External Dia 450mm & wall thickness 7.00mm	m	3,900.00	3,900.00	3,900.00	3,900.00
2372	PVC Pipe: External Dia 500mm & wall thickness 7.80mm	m	4,750.00	4,750.00	4,750.00	4,750.00
2373	PVC tape	each	105.00	105.00	105.00	105.00
2374	PVC T-Joints:160mmx160mmx160mm, Wall thickness 2.5mm&1.47 Length	each	1,490.00	1,490.00	1,490.00	1,490.00
2375	PVC T-Joints:180mmx180mmx180mm, Wall thickness 2.8mm&1.47 Length	each	1,725.00	1,725.00	1,725.00	1,725.00
2376	PVC T-Joints:200mmx200mmx200mm, Wall thickness 3.2mm&1.47 Length	each	2,000.00	2,000.00	2,000.00	2,000.00
2377	PVC T-Joints:225mmx225mmx225mm, Wall thickness 3.50mm&1.47 Length	each	2,425.00	2,425.00	2,425.00	2,425.00
2378	PVC T-Joints:250mmx250mmx250mm, Wall thickness 3.90mm&1.47 Length	each	2,975.00	2,975.00	2,975.00	2,975.00
2379	PVC T-Joints:280mmx280mmx280mm, Wall thickness 4.4mm&1.47 Length	each	3,650.00	3,650.00	3,650.00	3,650.00
2380	PVC T-Joints:315mmx315mmx315mm, Wall thickness 4.90mm&1.47 Length	each	4,590.00	4,590.00	4,590.00	4,590.00
2381	PVC T-Joints:355mmx355mmx355mm, Wall thickness 5.6mm&1.98 Length	each	7,100.00	7,100.00	7,100.00	7,100.00
2382	PVC T-Joints:400mmx400mmx400mm, Wall thickness 6.30mm&2.29Length	each	9,450.00	9,450.00	9,450.00	9,450.00
2383	PVC T-Joints:450mmx450mmx450mm, Wall thickness 7.0mm&2.67Length	each	12,900.00	12,900.00	12,900.00	12,900.00
2384	PVC T-Joints:500mmx500mmx500mm, Wall thickness 7.80mm&2.67Length	each	15,800.00	15,800.00	15,800.00	15,800.00
2385	PVC water stop (3 bulb type)	m	525.00	525.00	525.00	525.00
2386	Reducer Pipe 150-200mm dia	each	1,320.00	1,320.00	1,320.00	1,320.00
2387	Royal bolt	each	42.00	42.00	42.00	42.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2388	Rubber Base Cover Sheet (8-10mm Thickness)	sqm	1,964.50	1,964.50	1,964.50	1,964.50
2389	Rubber Chanel cap	m	194.00	194.00	194.00	194.00
2390	Rubber cork	each	26.00	26.00	26.00	26.00
2391	Rubber Foam Sheet	sqm	4,984.60	4,984.60	4,984.60	4,984.60
2392	Rubber Glue	kg	519.40	519.40	519.40	519.40
2393	Rubber Protect Sheet	sqm	5,902.40	5,902.40	5,902.40	5,902.40
2394	Rubber Seal (W=75mm, T=12mm, B=25mm)	m	947.10	947.10	947.10	947.10
2395	Rubber sheet (felt) 12 mm thick	sqm	2,700.00	2,700.00	2,700.00	2,700.00
2396	Rubber sheet (felt) 25 mm thick	sqm	5,500.00	5,500.00	5,500.00	5,500.00
2397	Rubber sheet 5.0mm thick	sqm	1,130.00	1,130.00	1,130.00	1,130.00
2398	Rubber Washer	each	44.00	44.00	44.00	44.00
2399	Safety hand gloves	each	250.00	250.00	250.00	250.00
2400	Safety Helmate	each	577.50	577.50	577.50	577.50
2401	Safety jacket	each	1,386.00	1,386.00	1,386.00	1,386.00
2402	Safety Shoe	each	600.00	600.00	600.00	600.00
	Sanitary & Tubewell Works Related Items					
2403	Steel fall board	each	11,000.00	11,000.00	11,000.00	11,000.00
2404	Straw Bundle	each	77.00	77.00	77.00	77.00
2405	Tapered Roller Bearing (SKF No-50216)	each	1,700.00	1,700.00	1,700.00	1,700.00
2406	Threaded Shaft (D=63mm, L=6m)	each	15,967.60	15,967.60	15,967.60	15,967.60
2407	Thrust Bearing out (D=184, BHN=625)	each	5,170.00	5,170.00	5,170.00	5,170.00
2408	Toluine (Chemicals to liquify glue and Cleaning)	liter	112.00	112.00	112.00	112.00
2409	uPVC Pipe 100mm dia of 3.4mm to 4.0mm wall thick	m	407.00	407.00	407.00	407.00
2410	uPVC Pipe 50mm dia of 2.5mm to 3.0mm wall thick	m	153.00	153.00	153.00	153.00
2411	uPVC Pipe 75mm dia of 2.9mm to 3.4mm wall thick	m	262.00	262.00	262.00	262.00
2412	Water proof, damp proof, dry & breathable cement (STN-EN - 1015-11 , compressive strength 34 MPa)	bag	1,800.00	1,800.00	1,800.00	1,800.00
	Electrical Works Related Items					
2413	3 nos in Set	each	43.00	43.00	43.00	43.00
2414	Cable Tray 500x100 mm without cover	m	2,360.00	2,360.00	2,360.00	2,360.00
2415	LED street light fittings 55	each	25,650.00	25,650.00	25,650.00	25,650.00
2416	TP MCB 5 - 60 Amps.	each	3,200.00	3,200.00	3,200.00	3,200.00
2417	0.5 HP Centrifugal Pump Head 14-22	set	4,935.00	4,935.00	4,935.00	4,935.00
2418	1 pair Telephone Cable	m	14.79	14.79	14.79	14.79
2419	1.0 HP Centrifugal Pump Head 16-35	set	10,250.00	10,250.00	10,250.00	10,250.00
2420	1.5 HP Centrifugal Pump, Head 20-39	set	14,300.00	14,300.00	14,300.00	14,300.00
2421	10 pair Telephone Cable	m	114.62	114.62	114.62	114.62
2422	100 mm dia (3.4-4mm) (upvc RAILWAY)	m	406.72	406.72	406.72	406.72
2423	100A TPDB	each	52,000.00	52,000.00	52,000.00	52,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2424	10-way SPDB	each	13,200.00	13,200.00	13,200.00	13,200.00
2425	12 mm dia PVC pipe (1.0 mm)(LIRA) (Class D gray)	m	14.80	14.80	14.80	14.80
2426	12 W, dia - Approximate Dia -165 mm	each	650.00	650.00	650.00	650.00
2427	12 watt LED bulb	each	240.00	240.00	240.00	240.00
2428	1200 mm / 4'- 18 / 20 watt-T5 AC LED tube Lamp	each	380.00	380.00	380.00	380.00
2429	1200 mm / 4'- 18 / 20 watt-T8 AC LED tube Lamp	each	400.00	400.00	400.00	400.00
2430	125 mm inner dia (upvc RAILWAY)	m	812.00	812.00	812.00	812.00
2431	15 watt LED bulb	each	260.00	260.00	260.00	260.00
2432	150 mm inner dia (4.5-5.2mm) (upvc RAILWAY)	m	862.64	862.64	862.64	862.64
2433	150 w LED street light fittings	each	8,999.00	8,999.00	8,999.00	8,999.00
2434	150A TPDB	each	68,000.00	68,000.00	68,000.00	68,000.00
2435	18 watt LED bulb	each	310.00	310.00	310.00	310.00
2436	18 W, dia - Approximate Dia -218 mm	each	750.00	750.00	750.00	750.00
2437	2 HP Centrifugal Pump, Head 23-36	set	16,500.00	16,500.00	16,500.00	16,500.00
2438	2 pair Telephone Cable	m	24.08	24.08	24.08	24.08
2439	2'(9W) 25mm	each	290.00	290.00	290.00	290.00
2440	20 AMP DP Switch	each	715.00	715.00	715.00	715.00
2441	20 mm dia PVC pipe (1.5 mm)(LIRA) (Class D gray)	m	27.87	27.87	27.87	27.87
2442	20 mm width PVC pipe channel	m	12.00	12.00	12.00	12.00
2443	20 pair Telephone Cable	m	216.40	216.40	216.40	216.40
2444	20 watt LED bulb	each	330.00	330.00	330.00	330.00
2445	200 mm inner dia (5.3-7.8mm) (upvc RAILWAY)	m	1,318.56	1,318.56	1,318.56	1,318.56
2446	200A TPDB	each	86,000.00	86,000.00	86,000.00	86,000.00
2447	200W LED street light fittings 56	each	14,544.00	14,544.00	14,544.00	14,544.00
2448	24 W, dia - Approximate Dia - 297 mm	each	980.00	980.00	980.00	980.00
2449	25' GI Pole	each	13,487.37	13,487.37	13,487.37	13,487.37
2450	25 mm dia PVC pipe (1.70mm)(LIRA) Class D gray)	m	40.26	40.26	40.26	40.26
2451	2x6W SPOT LED LIGHT FITTINGS 43	each	1,125.00	1,125.00	1,125.00	1,125.00
2452	3 pair Telephone Cable	m	35.69	35.69	35.69	35.69
2453	3 watt LED bulb	each	125.00	125.00	125.00	125.00
2454	3 x 120 sq. mm cables (3 Core)	m	7,031.40	7,031.40	7,031.40	7,031.40
2455	3 x 150 sq. mm cables (3 Core)	m	8,352.66	8,352.66	8,352.66	8,352.66
2456	3 x 185 sq. mm cables (3 Core)	m	9,937.73	9,937.73	9,937.73	9,937.73
2457	3 x 25 sq. mm cables (3 Core)	m	2,471.55	2,471.55	2,471.55	2,471.55
2458	3 x 35 sq. mm cables (3 Core)	m	2,995.31	2,995.31	2,995.31	2,995.31
2459	3 x 50 sq. mm cables (3 Core)	m	3,676.93	3,676.93	3,676.93	3,676.93
2460	3 x 70 sq. mm cables (3 Core)	m	4,692.02	4,692.02	4,692.02	4,692.02
2461	3 x 95 sq. mm cables (3 Core)	m	5,915.91	5,915.91	5,915.91	5,915.91

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2462	3.00 HP Centrifugal Pump, Head 14-32	set	40,000.00	40,000.00	40,000.00	40,000.00
2463	30' GI Pole	each	23,807.50	23,807.50	23,807.50	23,807.50
2464	30 mm dia PVC pipe (1.90mm) (LIRA) (Class D gray)	m	57.12	57.12	57.12	57.12
2465	30 watt LED bulb	each	570.00	570.00	570.00	570.00
2466	4 pair Telephone Cable	m	51.25	51.25	51.25	51.25
2467	4' x 36 W PANEL LIGHT FITTINGS	each	1,200.00	1,200.00	1,200.00	1,200.00
2468	4'(18W) 25 mm	each	330.00	330.00	330.00	330.00
2469	4.00 HP Centrifugal Pump, Head 36.5-28.3	set	69,500.00	69,500.00	69,500.00	69,500.00
2470	4/C Co-axial cable	m	35.81	35.81	35.81	35.81
2471	40 mm dia PVC pipe (2.20mm)(LIRA) (Class D gray)	m	94.97	94.97	94.97	94.97
2472	48 W PANEL LIGHT FITTINGS	each	2,520.00	2,520.00	2,520.00	2,520.00
2473	5 pair Telephone Cable	m	60.11	60.11	60.11	60.11
2474	5 watt LED bulb	each	130.00	130.00	130.00	130.00
2475	5.5 HP Centrifugal Pump, Head 27-45	set	77,600.00	77,600.00	77,600.00	77,600.00
2476	5/C Co-axial cable	m	42.96	42.96	42.96	42.96
2477	50 mm dia (2.5-3 mm) (upvc RAILWAY)	m	153.34	153.34	153.34	153.34
2478	50 pair Telephone Cable	m	495.33	495.33	495.33	495.33
2479	50mm Dia MS Socket	Nos.	100.00	100.00	100.00	100.00
2480	6 pair Telephone Cable	m	72.42	72.42	72.42	72.42
2481	6/C Co-axial cable	m	56.37	56.37	56.37	56.37
2482	600 mm / 2'- 9 / 10 watt-T5 AC LED tube Lamp	each	320.00	320.00	320.00	320.00
2483	601 mm / 2'- 9 / 10 watt-T8 AC LED tube Lamp	each	350.00	350.00	350.00	350.00
2484	6-way SPDB	each	10,150.00	10,150.00	10,150.00	10,150.00
2485	7 watt LED bulb	each	170.00	170.00	170.00	170.00
2486	7.5 HP Centrifugal Pump, Head 15-46	set	106,200.00	106,200.00	106,200.00	106,200.00
2487	75 mm dia (3-3.5mm) (upvc RAILWAY)	m	262.40	262.40	262.40	262.40
2488	8 pair Telephone Cable	m	91.73	91.73	91.73	91.73
2489	8-way SPDB	each	11,250.00	11,250.00	11,250.00	11,250.00
2490	9 watt LED bulb	each	190.00	190.00	190.00	190.00
2491	9W SPOT LED LIGHT FITTINGS	each	1,125.00	1,125.00	1,125.00	1,125.00
2492	Air Terminal mast	each	14,200.00	14,200.00	14,200.00	14,200.00
2493	Aviation light	each	8,200.00	8,200.00	8,200.00	8,200.00
2494	BATHROOM LIGHT FITTING 29	each	483.00	483.00	483.00	483.00
2495	BATHROOM LIGHT FITTING(EXCEPT LAMP)	each	650.00	650.00	650.00	650.00
2496	BBT 1000A	m	116,000.00	116,000.00	116,000.00	116,000.00
2497	BBT 1250A	m	119,000.00	119,000.00	119,000.00	119,000.00
2498	BBT 1600A	m	125,000.00	125,000.00	125,000.00	125,000.00
2499	BBT 2000A	m	156,000.00	156,000.00	156,000.00	156,000.00
2500	BBT 800A	m	112,000.00	112,000.00	112,000.00	112,000.00
2501	BRACKET LIGHT FITTINGS (EXCEPT LAMP)	each	650.00	650.00	650.00	650.00
2502	BRACKET LIGHT FITTINGS 27	each	650.00	650.00	650.00	650.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2503	BRACKET LIGHT FITTINGS 28	each	619.00	619.00	619.00	619.00
2504	CABLE LADDERS 300x100 mm	m	3,500.00	3,500.00	3,500.00	3,500.00
2505	CABLE LADDERS 400x100 mm	m	4,000.00	4,000.00	4,000.00	4,000.00
2506	CABLE LADDERS 600x100 mm	m	4,900.00	4,900.00	4,900.00	4,900.00
2507	CABLE LADDERS 900x100 mm	m	6,200.00	6,200.00	6,200.00	6,200.00
2508	Cable Tray 100x50 mm without cover	m	1,150.00	1,150.00	1,150.00	1,150.00
2509	Cable Tray 200x50 mm without cover	m	1,425.00	1,425.00	1,425.00	1,425.00
2510	Cable Tray 300x100 mm without cover	m	1,900.00	1,900.00	1,900.00	1,900.00
2511	CAPACITOR FOR FAN 2.8 / 3.5 µF	each	80.00	80.00	80.00	80.00
2512	CEILING MOUNTED SAUCER & SPOT LIGHT FITTINGS	each	650.00	650.00	650.00	650.00
2513	CEILING MOUNTED SAUCER & SPOT LIGHT FITTINGS (25)	each	950.00	950.00	950.00	950.00
2514	CEILING MOUNTED SAUCER & SPOT LIGHT FITTINGS 26	each	850.00	850.00	850.00	850.00
2515	Celling Fan 48" Sweep Maximum 70 watt.	each	2,660.00	2,660.00	2,660.00	2,660.00
2516	Celling Fan 56" Sweep Maximum 70 watt.	each	2,850.00	2,850.00	2,850.00	2,850.00
2517	Clamp (250x38x6mm)	each	60.50	60.50	60.50	60.50
2518	Construction of Earthing (2 nos.)	each set	125,000.00	125,000.00	125,000.00	125,000.00
2519	Construction of GI tower	each	10,800.00	10,800.00	10,800.00	10,800.00
2520	Construction of Earthing inspection pit	each	6,000.00	6,000.00	6,000.00	6,000.00
2521	Copper made down conductor	m	1,400.00	1,400.00	1,400.00	1,400.00
2522	Digital energy meter (single phase)	each	1,400.00	1,400.00	1,400.00	1,400.00
2523	Early Streamer Emission Air Terminal (ESEAT)	each	252,000.00	252,000.00	252,000.00	252,000.00
2524	Earth Test box	each	1,100.00	1,100.00	1,100.00	1,100.00
2525	Electric energy meter	each	1,000.00	1,000.00	1,000.00	1,000.00
2526	electrode at 37338 mm. (122.5 ft) from GL	set	42,000.00	42,000.00	42,000.00	42,000.00
2527	electrode at 12954 mm. (42.5 ft) from GL	set	24,000.00	24,000.00	24,000.00	24,000.00
2528	Energy Meter 10-100 Amps (double Tariff)	each	6,500.00	6,500.00	6,500.00	6,500.00
2529	Energy Meter 10-100 Amps (single Tariff)	each	5,000.00	5,000.00	5,000.00	5,000.00
2530	EXHAUST FAN 10" Exhaust fan	each	910.00	910.00	910.00	910.00
2531	EXHAUST FAN 12" Exhaust fan	each	1,050.00	1,050.00	1,050.00	1,050.00
2532	EXHAUST FAN 8" Exhaust fan	each	850.00	850.00	850.00	850.00
2533	FAN CLAMP Box fan clamp	each	130.00	130.00	130.00	130.00
2534	FAN CLAMP U-type fan clamp	each	100.00	100.00	100.00	100.00
2535	FAN REPAIRING 56” A.C. Ceiling Fan	each	1,000.00	1,000.00	1,000.00	1,000.00
2536	FLOOD LIGHT FITTINGS	each	10,052.00	10,052.00	10,052.00	10,052.00
2537	FLOOD LIGHT FITTINGS (13)	each	1,500.00	1,500.00	1,500.00	1,500.00
2538	FOOT LIGHT FITTINGS	each	1,125.00	1,125.00	1,125.00	1,125.00
2539	Four gang switch	each	579.00	579.00	579.00	579.00
2540	GANG TYPE CALLING BELL PUSH	each	350.00	350.00	350.00	350.00
2541	GANG TYPE FAN REGULATOR	each	924.00	924.00	924.00	924.00
2542	Gang type Telephone / TV Socket	each	453.00	453.00	453.00	453.00
2543	GARDEN & GATE LIGHT FITTINGS 49	each	2,475.00	2,475.00	2,475.00	2,475.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2544	GARDEN & GATE LIGHT FITTINGS 50	each	2,475.00	2,475.00	2,475.00	2,475.00
2545	GARDEN & GATE LIGHT FITTINGS(18)	each	1,600.00	1,600.00	1,600.00	1,600.00
2546	GEYSER 45 liter / hr. wall mounting type.	each	7,500.00	7,500.00	7,500.00	7,500.00
2547	GEYSER 65 liter / hr. wall mounting type.	each	8,500.00	8,500.00	8,500.00	8,500.00
2548	HDBC wire	m	850.00	850.00	850.00	850.00
2549	High pressure Sodium lamp (24)	each	5,488.00	5,488.00	5,488.00	5,488.00
2550	IC - 2 x 1.5 Sq. mm (BYM) single core (7w)	m	54.54	54.54	54.54	54.54
2551	IC - 2 x 2.5 Sq. mm (BYM) single core	m	82.31	82.31	82.31	82.31
2552	IC - 2 x 4 Sq. mm (BYM) single core	m	123.11	123.11	123.11	123.11
2553	IC - 2 x 6 Sq. mm (BYM) single core	m	177.44	177.44	177.44	177.44
2554	IC- 1 x 1.5 Sq. mm BYA (7W)	m	21.83	21.83	21.83	21.83
2555	IC- 1 x 10 Sq. mm BYA (7W)	m	133.22	133.22	133.22	133.22
2556	IC- 1 x 120 Sq. mm BYA (7W)	m	1,437.80	1,437.80	1,437.80	1,437.80
2557	IC- 1 x 150 Sq. mm BYA (7W)	m	1,797.97	1,797.97	1,797.97	1,797.97
2558	IC- 1 x 16 Sq. mm BYA (7W)	m	210.31	210.31	210.31	210.31
2559	IC- 1 x 185 Sq. mm BYA (7W)	m	2,216.33	2,216.33	2,216.33	2,216.33
2560	IC- 1 x 2.5 Sq. mm BYA (7W)	m	34.83	34.83	34.83	34.83
2561	IC- 1 x 240 Sq. mm BYA (7W)	m	2,884.97	2,884.97	2,884.97	2,884.97
2562	IC- 1 x 25 Sq. mm BYA (7W)	m	309.35	309.35	309.35	309.35
2563	IC- 1 x 300 Sq. mm BYA (7W)	m	3,588.50	3,588.50	3,588.50	3,588.50
2564	IC- 1 x 35 Sq. mm BYA (7W)	m	427.40	427.40	427.40	427.40
2565	IC- 1 x 4 Sq. mm BYA (7W)	m	54.23	54.23	54.23	54.23
2566	IC- 1 x 50 Sq. mm BYA (7W)	m	609.40	609.40	609.40	609.40
2567	IC- 1 x 6 Sq. mm BYA (7W)	m	80.98	80.98	80.98	80.98
2568	IC- 1 x 70 Sq. mm BYA (7W)	m	849.78	849.78	849.78	849.78
2569	IC- 1 x 95 Sq. mm BYA (7W)	m	1,143.62	1,143.62	1,143.62	1,143.62
2570	IC- 2 x 1.5 Sq. mm BYA	m	43.67	43.67	43.67	43.67
2571	IC- 2 x 10 Sq. mm BYA	m	266.45	266.45	266.45	266.45
2572	IC- 2 x 16 Sq. mm BYA	m	420.62	420.62	420.62	420.62
2573	IC- 2 x 2.5 Sq. mm BYA	m	69.66	69.66	69.66	69.66
2574	IC- 2 x 4 Sq. mm BYA	m	108.45	108.45	108.45	108.45
2575	IC- 2 x 6 Sq. mm BYA	m	161.96	161.96	161.96	161.96
2576	IC -4 x 10 Sq. mm (NYY) single core	m	636.54	636.54	636.54	636.54
2577	IC -4 x 120 Sq. mm (NYY) single core	m	6,328.62	6,328.62	6,328.62	6,328.62
2578	IC -4 x 150 Sq. mm (NYY) single core	m	7,883.28	7,883.28	7,883.28	7,883.28
2579	IC -4 x 16 Sq. mm (NYY) single core	m	953.25	953.25	953.25	953.25
2580	IC -4 x 185 Sq. mm (NYY) single core	m	9,718.05	9,718.05	9,718.05	9,718.05
2581	IC -4 x 240 Sq. mm (NYY) single core	m	12,585.96	12,585.96	12,585.96	12,585.96
2582	IC -4 x 25 Sq. mm (NYY) single core	m	1,450.26	1,450.26	1,450.26	1,450.26
2583	IC -4 x 300 Sq. mm (NYY) single core	m	15,625.62	15,625.62	15,625.62	15,625.62
2584	IC -4 x 35 Sq. mm (NYY) single core	m	1,952.67	1,952.67	1,952.67	1,952.67
2585	IC -4 x 400 Sq. mm (NYY) single core	m	20,776.65	20,776.65	20,776.65	20,776.65
2586	IC -4 x 50 Sq. mm (NYY) single core	m	2,753.46	2,753.46	2,753.46	2,753.46
2587	IC -4 x 500 Sq. mm (NYY) single core	m	25,905.27	25,905.27	25,905.27	25,905.27

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2588	IC -4 x 630 Sq. mm (NYY) single core	m	32,624.25	32,624.25	32,624.25	32,624.25
2589	IC -4 x 70 Sq. mm (NYY) single core	m	3,790.50	3,790.50	3,790.50	3,790.50
2590	IC -4 x 95 Sq. mm (NYY) single core	m	5,065.74	5,065.74	5,065.74	5,065.74
2591	IC-100 sq.mm (WASP)	m	173.00	173.00	173.00	173.00
2592	IC-25 sq.mm (GNAT)	m	54.85	54.85	54.85	54.85
2593	IC-4 x 2.5 sq. mm (NYY) single core	m	219.54	219.54	219.54	219.54
2594	IC-4 x 4 sq. mm (NYY) single core	m	308.22	308.22	308.22	308.22
2595	IC-4 x 6 sq. mm (NYY) single core	m	429.63	429.63	429.63	429.63
2596	IC-50 sq.mm (ANT)	m	95.00	95.00	95.00	95.00
2597	IC-75 sq.mm (EARWIG)	m	167.61	167.61	167.61	167.61
2598	INTERNET SOCKET	each	850.00	850.00	850.00	850.00
2599	LED Flood light fittings 37	each	2,850.00	2,850.00	2,850.00	2,850.00
2600	LED Flood light fittings 38	each	4,750.00	4,750.00	4,750.00	4,750.00
2601	LED Flood light fittings 39	each	7,500.00	7,500.00	7,500.00	7,500.00
2602	LED Flood light fittings 40	each	9,585.00	9,585.00	9,585.00	9,585.00
2603	LED GARDEN LIGHT FITTINGS 44	each	2,295.00	2,295.00	2,295.00	2,295.00
2604	LED GARDEN LIGHT FITTINGS 45	each	2,025.00	2,025.00	2,025.00	2,025.00
2605	LED GARDEN LIGHT FITTINGS 46	each	2,025.00	2,025.00	2,025.00	2,025.00
2606	LED GARDEN LIGHT FITTINGS 47	each	6,750.00	6,750.00	6,750.00	6,750.00
2607	LED GARDEN LIGHT FITTINGS(21)	each	675.00	675.00	675.00	675.00
2608	LED PENDENT LIGHT FITTINGS(12)	each	1,700.00	1,700.00	1,700.00	1,700.00
2609	LED SIGN (Exit light)(14)	each	630.00	630.00	630.00	630.00
2610	LED Tube light fitting 34	each	1,665.00	1,665.00	1,665.00	1,665.00
2611	Lightning event counter	each	40,000.00	40,000.00	40,000.00	40,000.00
2612	L-Type Tube Light Holder	each	53.00	53.00	53.00	53.00
2613	Min. inner dia 16 mm & min. wall thickness 1.5 mm.	m	27.00	27.00	27.00	27.00
2614	Min. inner dia 20 mm & min. wall thickness 1.5 mm.	m	41.00	41.00	41.00	41.00
2615	Min. inner dia 25 mm & min.wall thickness 1.5 mm.	m	55.00	55.00	55.00	55.00
2616	Min. inner dia 40 mm & min.wall thickness 1.9 mm.	m	122.00	122.00	122.00	122.00
2617	One gang switch	each	135.00	135.00	135.00	135.00
2618	One gang switch & one 5/10 amps. 2-pin socket combined.	each	374.00	374.00	374.00	374.00
2619	PENDENT LIGHT FITTINGS 30	each	1,500.00	1,500.00	1,500.00	1,500.00
2620	PENDENT LIGHT FITTINGS 31	each	1,250.00	1,250.00	1,250.00	1,250.00
2621	PENDENT LIGHT FITTINGS 4	each	1,850.00	1,850.00	1,850.00	1,850.00
2622	PENDENT LIGHT FITTINGS(EXCEPT LAMP)	each	1,650.00	1,650.00	1,650.00	1,650.00
2623	Round Type Light Holder	each	55.00	55.00	55.00	55.00
2624	SDB With water tight arrangement.	Sqm	14,000.00	14,000.00	14,000.00	14,000.00
2625	Skilled technician	day	1,200.00	1,200.00	1,200.00	1,200.00
2626	Solid copper rod	set	5,800.00	5,800.00	5,800.00	5,800.00
2627	SP MCB 5 - 40 Amps.	each	600.00	600.00	600.00	600.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2628	SP MCB 60 / 63 Amps.	each	750.00	750.00	750.00	750.00
2629	SPOT LED LIGHT FITTINGS 42	each	1,296.00	1,296.00	1,296.00	1,296.00
2630	SPOT LED LIGHT FITTINGS(15)	each	675.00	675.00	675.00	675.00
2631	SPOT LED LIGHT FITTINGS(16)	each	1,500.00	1,500.00	1,500.00	1,500.00
2632	STREET LIGHT FITTINGS 53	each	5,350.00	5,350.00	5,350.00	5,350.00
2633	STREET LIGHT FITTINGS (19)	each	950.00	950.00	950.00	950.00
2634	SUBMERSIBLE 1 HP Head 13-53	set	57,000.00	57,000.00	57,000.00	57,000.00
2635	SUBMERSIBLE 1.5 HP Head 30-104	set	60,500.00	60,500.00	60,500.00	60,500.00
2636	SUBMERSIBLE 2 HP Head 21-58	set	123,100.00	123,100.00	123,100.00	123,100.00
2637	Surge Protection Device (SPD)	each	44,000.00	44,000.00	44,000.00	44,000.00
2638	Three gang switch	each	376.00	376.00	376.00	376.00
2639	TP MCCB 15 - 100 Amps. (Minimum 18-KA)	each	6,000.00	6,000.00	6,000.00	6,000.00
2640	TP MCCB 25 - 160 Amps. (Minimum 25-KA)	each	7,100.00	7,100.00	7,100.00	7,100.00
2641	Tube light fitting	each	405.00	405.00	405.00	405.00
2642	Tube light fitting (11)	each	689.00	689.00	689.00	689.00
2643	Tube light fitting 32	each	1,350.00	1,350.00	1,350.00	1,350.00
2644	Tube light fitting 33	each	1,010.00	1,010.00	1,010.00	1,010.00
2645	Tube light fitting 35	each	405.00	405.00	405.00	405.00
2646	Tube light fitting 36	each	1,395.00	1,395.00	1,395.00	1,395.00
2647	TUBE PANEL LIGHT FITTINGS	each	2,295.00	2,295.00	2,295.00	2,295.00
2648	Two gang switch	each	263.00	263.00	263.00	263.00
2649	UNIVERSAL COMBINED SWITCH SOCKET 13 / 15 / 16 / 20 Amps.	each	725.00	725.00	725.00	725.00
2650	UNIVERSAL COMBINED SWITCH SOCKET 5 - 10 Amps.	each	540.00	540.00	540.00	540.00
2651	UTP Cat-6 Cable	m	45.00	45.00	45.00	45.00
2652	WT LIGHT FITTINGS 51	each	585.00	585.00	585.00	585.00
2653	WT LIGHT FITTINGS 52	each	1,008.00	1,008.00	1,008.00	1,008.00
	Termite Treatment Works Related Items					
2654	Anti-termite chemical (Heptachlor -40WP or Dursbane ZOEC or Pyrifox ZOEC)	liter	629.90	629.90	629.90	629.90
2655	Anti-termite treatment Chemicals Pestearthy	kg	1,837.00	1,837.00	1,837.00	1,837.00
2656	Brush	each	32.80	32.80	32.80	32.80
2657	Dieldrin	ml	0.90	0.90	0.90	0.90
2658	Fumigant	ml	1.20	1.20	1.20	1.20
2659	Heptachlor - 40 WP	kg	128.30	128.30	128.30	128.30
2660	Timberin (1 bottle of 500 ml)	bottle	594.00	594.00	594.00	594.00
	Furniture Works Related Items					
2661	Armed chair standard fancy heavy of FCV 2209/2210	each	9,200.00	9,200.00	9,200.00	9,200.00
2662	Armed chair standard fancy light of FCF 2301/CFVP005	each	5,280.00	5,280.00	5,280.00	5,280.00
2663	Double Bed 2050Lx1540Wx800Hmm size of BDDP050WD	each	35,500.00	35,500.00	35,500.00	35,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2664	Double Bed 2084Lx1600Wx1050Hmm size of AFL-BED-150	each	58,000.00	58,000.00	58,000.00	58,000.00
2665	Double Bed 2084Lx1600Wx1050Hmm size of BDDP089WD	each	51,200.00	51,200.00	51,200.00	51,200.00
2666	Double seated Sofa of SDCP006FR	each	16,000.00	16,000.00	16,000.00	16,000.00
2667	Senior Official Table MDF/EW (Size :1800LX1830WX 750Hmm) of TMOP022LB	each	27,000.00	27,000.00	27,000.00	27,000.00
2668	Side Rack : 900Wx400Dx750H mm size of FCB 0651	each	6,750.00	6,750.00	6,750.00	6,750.00
2669	Single Bed 2036Lx1080Wx750Hmm size of BSDP009WD	each	32,300.00	32,300.00	32,300.00	32,300.00
2670	Single seated Sofa of SSCP094FF	each	26,000.00	26,000.00	26,000.00	26,000.00
2671	Steel Almirah 915Wx483Dx1929H mm size of FAE4201	each	27,000.00	27,000.00	27,000.00	27,000.00
2672	Steel File Cabinet 2 drawer 476Dx620Wx746H mm size of FCD 4230	each	14,000.00	14,000.00	14,000.00	14,000.00
2673	Steel File Cabinet 3 drawer 476Dx620Wx1070H mm size of FCT 4230	each	17,149.00	17,149.00	17,149.00	17,149.00
2674	Steel File Cabinet 4 drawer 476Dx620Wx1390H mm size of FCOP003MS	each	23,199.00	23,199.00	23,199.00	23,199.00
2675	Two Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0618	each	4,300.00	4,300.00	4,300.00	4,300.00
2676	Wooden Dining Chair (size : 410LX475W x 895Hmm) of FCDB002FR	each	6,000.00	6,000.00	6,000.00	6,000.00
2677	Wooden Double seated Sofa of SDCE003FF	each	24,500.00	24,500.00	24,500.00	24,500.00
2678	2 Drawer and bottom side box Wooden Wardrobe (size: 830Lx515Wx1220Hmm) of WDDP011ED/EDDP010WD	each	30,000.00	30,000.00	30,000.00	30,000.00
2679	4 Drawer and right side box Laminated Melamine Board (LB) Wardrobe (size: 1210L x 525W x1214Hmm) of WDDP005LB	each	25,000.00	25,000.00	25,000.00	25,000.00
2680	4 Drawer Laminated Melamine Board (LB) Wardrobe (size: 806Lx503Wx1006Hmm) of CDDB002KLB	each	15,000.00	15,000.00	15,000.00	15,000.00
2681	4 Drawer Wooden Wardrobe (size: 830Lx515Wx1220Hmm) of CDDP018ED	each	34,000.00	34,000.00	34,000.00	34,000.00
2682	Almirah of chittagong teak wood (1.52x1.07x 0.46m) in/c glass front ,all varnishing, finishing etc.	each	23,500.00	23,500.00	23,500.00	23,500.00
2683	Almirah of chittagong teak wood (1.52x1.07x0.46m) with in/c 4 shelves all varnishing, finishing etc.	each	23,000.00	23,000.00	23,000.00	23,000.00
2684	Armed Chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	6,050.00	6,050.00	6,050.00	6,050.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2685	Armed chair standard fancy heavy of CFVP006/007	each	6,500.00	6,500.00	6,500.00	6,500.00
2686	Armed chair standard fancy heavy of CFVP012	each	10,800.00	10,800.00	10,800.00	10,800.00
2687	Armed chair standard fancy heavy of CFVP053	each	9,200.00	9,200.00	9,200.00	9,200.00
2688	Armed chair standard fancy heavy of FCF 2302	each	6,200.00	6,200.00	6,200.00	6,200.00
2689	Armed chair standard fancy heavy of FCV 2204	each	10,000.00	10,000.00	10,000.00	10,000.00
2690	Armed chair standard fancy heavy of FCV 2207/CFVP008	each	8,500.00	8,500.00	8,500.00	8,500.00
2691	Armed chair standard medium of FCF 2303/2304	each	5,000.00	5,000.00	5,000.00	5,000.00
2692	Armed chair standard normal of CFVE003	each	3,500.00	3,500.00	3,500.00	3,500.00
2693	Armed chair standard normal of FCF 2305/CFVP011	each	4,642.00	4,642.00	4,642.00	4,642.00
2694	Armed chair standard normal of FCF 2313	each	4,600.00	4,600.00	4,600.00	4,600.00
2695	Armed Less Chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	550.00	550.00	550.00	550.00
2696	Armless chair standard fancy light of CFVP001	each	4,400.00	4,400.00	4,400.00	4,400.00
2697	Armless chair standard fancy light of CFVP030	each	6,200.00	6,200.00	6,200.00	6,200.00
2698	Armless chair standard fancy thick Plastic seat and back of CFVP057	each	4,800.00	4,800.00	4,800.00	4,800.00
2699	Armless chair standard medium of FCF 2308 FF	each	4,300.00	4,300.00	4,300.00	4,300.00
2700	Armless chair standard medium of FCF 2308 LR	each	3,800.00	3,800.00	3,800.00	3,800.00
2701	Armless chair standard normal of CFVE002	each	2,200.00	2,200.00	2,200.00	2,200.00
2702	Armless chair standard normal of CFVE005/006	each	2,800.00	2,800.00	2,800.00	2,800.00
2703	Armless chair standard normal of FCF 2307 FF	each	2,750.00	2,750.00	2,750.00	2,750.00
2704	Armless chair standard normal of FCF 2307 LR	each	2,500.00	2,500.00	2,500.00	2,500.00
2705	Armless chair sytandard fancy light of CFVP010	each	5,200.00	5,200.00	5,200.00	5,200.00
2706	Class Room Chair with bottom metal netting basket of HPL-508-203-10-1-00	each	5,500.00	5,500.00	5,500.00	5,500.00
2707	Class Room Chair seat and back foam covering without basket of FCC 2351	each	4,400.00	4,400.00	4,400.00	4,400.00
2708	Class Room Chair with bottom metal netting basket of FCC 2353	each	8,200.00	8,200.00	8,200.00	8,200.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2709	Class Room Chair without basket of FCC 2352	each	4,200.00	4,200.00	4,200.00	4,200.00
2710	Combined Platic High Bench with Book shelf: Size : 1.450m-(L)x0.425m(W)x0.730m(H) and Low Bench: Size : 1.395m-(L)x0.305m(W)x0.380m(H)	set	9,150.00	9,150.00	9,150.00	9,150.00
2711	Computer Table (size :1100Lx600Dx750Hmm) of TCCP001LB	each	10,747.00	10,747.00	10,747.00	10,747.00
2712	Computer Table (size :1050lx450Dx700Hmm) of TCCP001LB	each	9,600.00	9,600.00	9,600.00	9,600.00
2713	Computer Table (size :1200lx600Dx750Hmm) of TEOB002LB	each	10,000.00	10,000.00	10,000.00	10,000.00
2714	Computer Table (size :800Lx500Dx1400Hmm) of TCCP007LB	each	8,800.00	8,800.00	8,800.00	8,800.00
2715	Computer Table (size :910lx450Dx750Hmm) of SROP007LB	each	8,000.00	8,000.00	8,000.00	8,000.00
2716	Computer Table (size 1000Lx500Dx750Hmm) of FTC 0661	each	7,000.00	7,000.00	7,000.00	7,000.00
2717	Computer Table (size 600Lx480Dx750Hmm) of FTC 0660	each	4,200.00	4,200.00	4,200.00	4,200.00
2718	Conference Table- Long Middle LB (size: 1400Lx600Wx750Hmm) of FCM 0583	each	7,200.00	7,200.00	7,200.00	7,200.00
2719	Conference Table- Corner LB (size: 625Lx625Wx750Hmm) of FCM 0580	each	4,500.00	4,500.00	4,500.00	4,500.00
2720	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) of FCM 0582	each	6,700.00	6,700.00	6,700.00	6,700.00
2721	Conference Table- Long Middle LB (size: 1600Lx600Wx750Hmm) of FCM 0584	each	8,000.00	8,000.00	8,000.00	8,000.00
2722	Conference Table- Short Middle LB (size: 600Lx600Wx750Hmm)- FCM 0581	each	4,500.00	4,500.00	4,500.00	4,500.00
2723	Cot (2.13x1.07m) of jack wood including varnishing all finishing etc.	each	17,050.00	17,050.00	17,050.00	17,050.00
2724	Cushioned chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	6,600.00	6,600.00	6,600.00	6,600.00
2725	Dining Table of chittagong teak wood (1.83x0.96x0.76m) in/c all varnishing, finishing etc.	each	22,000.00	22,000.00	22,000.00	22,000.00
2726	Double Bed 2042Lx1540Wx845Hmm size of BDDB019LB	each	20,000.00	20,000.00	20,000.00	20,000.00
2727	Double Bed 2050Lx1668Wx700Hmm size of BDDB007LB	each	21,800.00	21,800.00	21,800.00	21,800.00
2728	Double Bed 2084Lx1540Wx1050Hmm size of AFL-BED-150	each	53,000.00	53,000.00	53,000.00	53,000.00
2729	Double mattress 2000x1600 size with minimum 100mm thick	each	15,000.00	15,000.00	15,000.00	15,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2730	Double mattress 2000x1600 size with minimum 200mm thick	each	19,500.00	19,500.00	19,500.00	19,500.00
2731	Double seated Sofa of SDCP047FF	each	42,000.00	42,000.00	42,000.00	42,000.00
2732	Double seated Sofa of STCP007LR	each	40,000.00	40,000.00	40,000.00	40,000.00
2733	Dress Stand of jack wood (standard size) in/c all varnishing, finishing etc.	each	3,000.00	3,000.00	3,000.00	3,000.00
2734	Dress Stand with coat rack one side of jack wood (standard size) in/c all varnishing, finishing etc.	each	3,100.00	3,100.00	3,100.00	3,100.00
2735	Dressing Table of Chittagong teak wood including Belgium mirror (1.08x0.41m) including all varnishing, finishing etc.	each	12,650.00	12,650.00	12,650.00	12,650.00
2736	Easy chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	12,000.00	12,000.00	12,000.00	12,000.00
2737	High bench of size 1.125x0.35x0.6m of best quality seasoned wood (Jack /Chittagong sil korai / Gamari/ chittagong teak and structures made of steel angle), painting, varnishing etc. all complete	each	3,300.00	3,300.00	3,300.00	3,300.00
2738	Low bench of size 1.35x0.25x0.375m of best quality seasoned wood (Jack/ Chittagong sil korai/Gamari/Chittagong teak and structures made of steel angle), painting, varnishing etc. all complete	each	2,970.00	2,970.00	2,970.00	2,970.00
2739	MS three seated group chair (size :1430Lx700WX890Hmm) of FCT 4274	each	17,250.00	17,250.00	17,250.00	17,250.00
2740	Multipurpose shelf beech colour (size : 600lx350Dx1800Hmm) of HSM 0382	each	8,400.00	8,400.00	8,400.00	8,400.00
2741	Multipurpose shelf beech colour (size :1200Lx400Dx1800Hmm) of HSM 0380	each	13,717.00	13,717.00	13,717.00	13,717.00
2742	Multipurpose shelf beech colour (size :600Lx300Dx1800Hmm) of HSM 0387	each	8,000.00	8,000.00	8,000.00	8,000.00
2743	Multipurpose shelf beech colour (size :800lx350Dx1800Hmm) of HSM 0386	each	9,200.00	9,200.00	9,200.00	9,200.00
2744	Multipurpose shelf beech colour (size 800Lx400Dx1800Hmm) of HSM 0381	each	10,000.00	10,000.00	10,000.00	10,000.00
2745	Official Table LB (Size : 1000LX600WX750Hmm) of FTS0563	each	5,400.00	5,400.00	5,400.00	5,400.00
2746	Official Table LB (Size : 1200lLX700WX750Hmm) of FTN0563	each	6,300.00	6,300.00	6,300.00	6,300.00
2747	Official Table LB (Size : 1200LX700WX750Hmm) of FTN0561	each	8,800.00	8,800.00	8,800.00	8,800.00
2748	Official Table LB (Size : 1200LX700WX750Hmm) of TPOP001LB	each	15,200.00	15,200.00	15,200.00	15,200.00
2749	Official Table LB (Size : 1200LX750WX750Hmm) of FTN0560	each	8,000.00	8,000.00	8,000.00	8,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2750	Official Table LB (Size : 1200LX750WX750Hmm) of FTN0562	each	7,000.00	7,000.00	7,000.00	7,000.00
2751	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0561	each	7,500.00	7,500.00	7,500.00	7,500.00
2752	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0562	each	8,300.00	8,300.00	8,300.00	8,300.00
2753	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0563	each	7,000.00	7,000.00	7,000.00	7,000.00
2754	Official Table LB (Size : 1400LX800WX750Hmm) of FTM0560	each	8,800.00	8,800.00	8,800.00	8,800.00
2755	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0561	each	8,800.00	8,800.00	8,800.00	8,800.00
2756	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0562	each	9,400.00	9,400.00	9,400.00	9,400.00
2757	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0563	each	8,800.00	8,800.00	8,800.00	8,800.00
2758	Official Table LB (Size : 1600LX850WX750Hmm) of FTL0560	each	10,000.00	10,000.00	10,000.00	10,000.00
2759	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) of CFWP003	each	12,250.00	12,250.00	12,250.00	12,250.00
2760	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) of CFWP007	each	14,800.00	14,800.00	14,800.00	14,800.00
2761	Plastic three seated group chair with MS box seat and back frame (size :1430-1320Lx700-500WX890-800Hmm) of CFWP004	each	8,500.00	8,500.00	8,500.00	8,500.00
2762	Polypropylene Impact Copolymer Plastic Chair, Size:550mm(L)x515mm(W)x850m (H).	each	1,700.00	1,700.00	1,700.00	1,700.00
2763	Polypropylene Impact Copolymer Plastic Table : Size : - 838mm(L) x 533mm(W) x 775m Table Top: Dimen 838mm(L) x 533mm(W) x 25mm(T).	each	6,300.00	6,300.00	6,300.00	6,300.00
2764	Round shaped Dining Table (size : 1600LX910Wx730Hmm) of TDDP001LB	each	13,000.00	13,000.00	13,000.00	13,000.00
2765	Secretariat Table (1.52x1.07x0.76m) of chittagong teak wood including all varnishing finishing etc.	each	22,000.00	22,000.00	22,000.00	22,000.00
2766	Senior Official Table LB (Size : 1400LX750WX750Hmm) of TEOP012LB	each	19,700.00	19,700.00	19,700.00	19,700.00
2767	Senior Official Table LB (Size : 1600lLX750WX750Hmm) of TEOP022LB	each	13,600.00	13,600.00	13,600.00	13,600.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2768	Senior Official Table LB (Size : 1650LX800WX750Hmm) of FTM6001	each	32,000.00	32,000.00	32,000.00	32,000.00
2769	Senior Official Table LB (Size :1400LX750W X 750Hmm) of TPOP001LB	each	15,200.00	15,200.00	15,200.00	15,200.00
2770	Senior Official Table LB (Size :1600LX750W X750Hmm) of FTM6002	each	27,400.00	27,400.00	27,400.00	27,400.00
2771	Senior Official Table LB (Size : 1600LX900WX 750Hmm) of TEOP005LB	each	21,000.00	21,000.00	21,000.00	21,000.00
2772	Senior Official Table LB (Size :1800LX1000WX750Hmm) of FTM0552	each	20,000.00	20,000.00	20,000.00	20,000.00
2773	Senior Official Table LB (Size :1800LX1700WX750Hmm) of TMOP006LB	each	32,950.00	32,950.00	32,950.00	32,950.00
2774	Senior Official Table LB (Size :1800LX1800WX750Hmm) of TMOP008LB	each	36,600.00	36,600.00	36,600.00	36,600.00
2775	Senior Official Table LB (Size :1800LX1800WX750Hmm) of TMOP019LB	each	24,700.00	24,700.00	24,700.00	24,700.00
2776	Senior Official Table LB (Size :1800LX800W X750Hmm) of TMOP004LB	each	33,800.00	33,800.00	33,800.00	33,800.00
2777	Senior Official Table LB (Size :1800LX900WX750Hmm) of FTM0550LB	each	10,800.00	10,800.00	10,800.00	10,800.00
2778	Senior Official Table LB(Size :1600LX850WX750Hmm) of FTM0553	each	12,400.00	12,400.00	12,400.00	12,400.00
2779	Senior Official Table MDF (Size :1800LX900WX750Hmm) of FTM1301LB	each	40,000.00	40,000.00	40,000.00	40,000.00
2780	Senior Official Table MDF/EW (Size :1400LX800WX750Hmm) of FTM1304	each	25,000.00	25,000.00	25,000.00	25,000.00
2781	Senior Official Table MDF/EW (Size :2150LX900WX750Hmm) of FTM1303	each	47,500.00	47,500.00	47,500.00	47,500.00
2782	Senior Official Table MDF/EW (Size :2386LX1059WX750Hmm) of TMOP020WD	each	102,000.00	102,000.00	102,000.00	102,000.00
2783	Senior Official Table MDF/EW (Size :2438LX1907WX750Hmm) of TMOP016WD	each	84,900.00	84,900.00	84,900.00	84,900.00
2784	Senior officials Table-MDF/EW (Size: 1800Lx1700Wx750H mm) of TMOP018WD	each	57,500.00	57,500.00	57,500.00	57,500.00
2785	Senior officials Table-MDF/EW (Size: 1800Lx1800Wx750H mm) of HPL-500-128-2-1-88	each	64,500.00	64,500.00	64,500.00	64,500.00
2786	Senior officials Table-MDF/EW (Size: 1800Lx2175Wx750H mm) of HPL-500-125-2-1-67	each	61,204.00	61,204.00	61,204.00	61,204.00
2787	Side Rack : 750Wx400Dx750H mm size of FCB 0652	each	6,050.00	6,050.00	6,050.00	6,050.00
2788	Single Bed 2036Lx1080Wx750Hmm size of BSDB003LB	each	14,800.00	14,800.00	14,800.00	14,800.00
2789	Single mattress 2000x1000 size with minimum 100mm thick	each	11,000.00	11,000.00	11,000.00	11,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2790	Single mattress 2000x1000 size with minimum 200mm thick	each	16,500.00	16,500.00	16,500.00	16,500.00
2791	Single seated Sofa of SSCP006FR	each	8,500.00	8,500.00	8,500.00	8,500.00
2792	Single seated Sofa of SSCP012LR	each	18,000.00	18,000.00	18,000.00	18,000.00
2793	Slotted Angle Rack (size : 1145Lx300Dx 1830H mm size) of FRS 4251	each	15,300.00	15,300.00	15,300.00	15,300.00
2794	Slotted Angle Rack (size : 1200Lx600Dx1800H mm size) of SROP002MS	each	24,200.00	24,200.00	24,200.00	24,200.00
2795	Steel Almirah of (1.83x0.91x0.61m) size made of BWG MS sheet at front and two parallel sides and 20 BWG MS sheet at back side including all painting, finishing etc.	each	21,219.00	21,219.00	21,219.00	21,219.00
2796	Steel Almirah of 1.8x0.9x0.675m size made of 18 BWG MS sheet at front and two parallel sides and 20 BWG MS sheet at back side including painting, varnishing etc. all complete	each	21,219.00	21,219.00	21,219.00	21,219.00
2797	Steel Chest of Drawer (1.37x1.22x0.53m) with 4 shelves made of 18 BWG steel sheet in/c all painting, finishing etc.	each	23,859.00	23,859.00	23,859.00	23,859.00
2798	Steel File Cabinet (1.37x0.46x0.61m) with 4 drawers made of 18 BWG steel sheet in/c all painting, finishing etc.	each	14,509.00	14,509.00	14,509.00	14,509.00
2799	Table (1.08x0.76m) of jack wood including all varnishing finishing etc.	each	9,900.00	9,900.00	9,900.00	9,900.00
2800	Tea table (standard size) of jack wood including all varnishing finishing etc,	each	3,300.00	3,300.00	3,300.00	3,300.00
2801	Teacher's chair of 0.45x0.4x0.425m of best quality seasoned wood (Jack Chittagong/ Chittagong Gamari/ Chittagong teak and structures made of steel angle), painting, varnishing etc. all complete	each	4,070.00	4,070.00	4,070.00	4,070.00
2802	Teacher's table of 0.675x0.375x0.763m best quality seasoned wood (Jack Chittagong/ Chittagong Gamari/ Chittagong teak and structures made of steel angle), painting, varnishing etc. all complete	each	4,070.00	4,070.00	4,070.00	4,070.00
2803	Three Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0610	each	6,200.00	6,200.00	6,200.00	6,200.00
2804	Three Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0619	each	5,900.00	5,900.00	5,900.00	5,900.00
2805	Three Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0611	each	5,850.00	5,850.00	5,850.00	5,850.00
2806	Three Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0620	each	5,700.00	5,700.00	5,700.00	5,700.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2807	Two Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0617	each	4,500.00	4,500.00	4,500.00	4,500.00
2808	Whatnot (1.22x0.38x0.91m) with 3 shelves made of jack wood in/c all varnishing, finishing etc.	each	5,800.00	5,800.00	5,800.00	5,800.00
2809	Wood Box (1.22x0.91x0.76m) made of jack wood in/c all varnishing, finishing etc.	each	3,500.00	3,500.00	3,500.00	3,500.00
2810	Wooden Center Table of CTCE008WD	each	7,000.00	7,000.00	7,000.00	7,000.00
2811	Wooden Center Table of CTCE009WD	each	8,000.00	8,000.00	8,000.00	8,000.00
2812	Wooden Center Table of CTCP049WD	each	8,500.00	8,500.00	8,500.00	8,500.00
2813	Wooden Dining Chair (size : 410LX475W x895Hmm) of AFL-DNT/DNC-119	each	14,200.00	14,200.00	14,200.00	14,200.00
2814	Wooden Dining Chair (size : 440LX522Wx950Hmm) of CFDP049WD	each	7,000.00	7,000.00	7,000.00	7,000.00
2815	Wooden Dining Chair (size : 596LX586Wx1025Hmm) of CFDP013LR	each	5,500.00	5,500.00	5,500.00	5,500.00
2816	Wooden Dining Table (size : 1520Lx912Wx744H) of TDDP012MF	each	32,500.00	32,500.00	32,500.00	32,500.00
2817	Wooden Dining Table (size : 1524Lx915Wx750H) of TDDP018WD	each	28,000.00	28,000.00	28,000.00	28,000.00
2818	Wooden Dining Table (size : 1650-1524Lx950-915Wx750-744H) of AFL-DNT/DNC-119	each	60,000.00	60,000.00	60,000.00	60,000.00
2819	Wooden Dining Table (size : 1650Lx950Wx750H) of TDDP049WD	each	30,800.00	30,800.00	30,800.00	30,800.00
2820	Wooden Single seated Sofa of SSCE009FF	each	15,000.00	15,000.00	15,000.00	15,000.00
2821	Wooden three seated group chair (size :1320Lx500WX800Hmm) of FCT 4270	each	10,800.00	10,800.00	10,800.00	10,800.00
	Electro-Mechanical Works Related Items					
2822	10' x 7.5' Motorized / Electric Screen	Each	16,500.00	16,500.00	16,500.00	16,500.00
2823	1000A (50KA)TPMCCB	Each	79,100.00	79,100.00	79,100.00	79,100.00
2824	100A (16KA) TPMCCB	Each	6,860.00	6,860.00	6,860.00	6,860.00
2825	100KVA AVR	Each	373,480.58	373,480.58	373,480.58	373,480.58
2826	11 KV, porcelain bushing	Each	2,500.00	2,500.00	2,500.00	2,500.00
2827	11KV HT SWITCHGEAR with withdraw able type Vacuum Circuit Breaker.	Each	850,000.00	850,000.00	850,000.00	850,000.00
2828	1200/1250A (65KA) ACB	Each	287,000.00	287,000.00	287,000.00	287,000.00
2829	15 KVA AVR	Each	75,875.79	75,875.79	75,875.79	75,875.79
2830	150/160A (25KA) TPMCCB	Each	10,500.00	10,500.00	10,500.00	10,500.00
2831	150KVA AVR	Each	448,953.04	448,953.04	448,953.04	448,953.04
2832	16 Channel Mixing Console	Each	160,000.00	160,000.00	160,000.00	160,000.00
2833	16 channel NVR	Each	48,000.00	48,000.00	48,000.00	48,000.00
2834	1600A (65KA) ACB	Each	325,500.00	325,500.00	325,500.00	325,500.00
2835	2 MP Fixed Lens Bullet Camera	Each	8,000.00	8,000.00	8,000.00	8,000.00
2836	2 MP Fixed Lens Dome Camera	Each	8,000.00	8,000.00	8,000.00	8,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2837	20 KVA AVR	Each	88,430.38	88,430.38	88,430.38	88,430.38
2838	2000A (65KA) ACB	Each	357,000.00	357,000.00	357,000.00	357,000.00
2839	200A (36KA) TPMCCB	Each	17,150.00	17,150.00	17,150.00	17,150.00
2840	200KVA AVR	Each	544,896.79	544,896.79	544,896.79	544,896.79
2841	24 Channel Mixing Console	Each	222,000.00	222,000.00	222,000.00	222,000.00
2842	2500A (65KA) ACB	Each	434,000.00	434,000.00	434,000.00	434,000.00
2843	250A (36KA) TPMCCB	Each	20,020.00	20,020.00	20,020.00	20,020.00
2844	2-way line array speaker (continuous power-LF: 600W-800W)	Each	643,500.00	643,500.00	643,500.00	643,500.00
2845	2x40 W, 8 input mixer-amplifier	Each	121,400.00	121,400.00	121,400.00	121,400.00
2846	30/32A (16KA) TPMCCB	Each	6,790.00	6,790.00	6,790.00	6,790.00
2847	300/320A (36KA) TPMCCB	Each	38,500.00	38,500.00	38,500.00	38,500.00
2848	3000/3200A (65KA) ACB	Each	539,000.00	539,000.00	539,000.00	539,000.00
2849	30KVA AVR	Each	103,028.12	103,028.12	103,028.12	103,028.12
2850	3-Phase Generator, 100 KVA	Each	1,960,200.00	1,960,200.00	1,960,200.00	1,960,200.00
2851	3-Phase Generator, 150 KVA	Each	2,711,610.00	2,711,610.00	2,711,610.00	2,711,610.00
2852	3-Phase Generator, 200 KVA	Each	3,332,340.00	3,332,340.00	3,332,340.00	3,332,340.00
2853	3-Phase Generator, 250KVA	Each	3,920,400.00	3,920,400.00	3,920,400.00	3,920,400.00
2854	3-Phase Generator, 30 KVA	Each	1,339,470.00	1,339,470.00	1,339,470.00	1,339,470.00
2855	3-Phase Generator, 300 KVA	Each	4,704,480.00	4,704,480.00	4,704,480.00	4,704,480.00
2856	3-Phase Generator, 40 KVA	Each	1,437,480.00	1,437,480.00	1,437,480.00	1,437,480.00
2857	3-Phase Generator, 400 KVA	Each	5,818,789.35	5,818,789.35	5,818,789.35	5,818,789.35
2858	3-Phase Generator, 500 KVA	Each	6,534,000.00	6,534,000.00	6,534,000.00	6,534,000.00
2859	3-Phase Generator, 60 KVA	Each	1,600,830.00	1,600,830.00	1,600,830.00	1,600,830.00
2860	3-Phase Generator, 80 KVA	Each	1,796,850.00	1,796,850.00	1,796,850.00	1,796,850.00
2861	400A (36KA) TPMCCB	Each	38,500.00	38,500.00	38,500.00	38,500.00
2862	40A(16KA) TPMCCB	Each	6,790.00	6,790.00	6,790.00	6,790.00
2863	40KVA AVR	Each	144,976.14	144,976.14	144,976.14	144,976.14
2864	5' x 5' Motorized / Electric Screen	Each	6,500.00	6,500.00	6,500.00	6,500.00
2865	500A (36KA) TPMCCB	Each	42,000.00	42,000.00	42,000.00	42,000.00
2866	500V, porcelain bushing	Each	2,500.00	2,500.00	2,500.00	2,500.00
2867	50A (16KA) TPMCCB	Each	6,790.00	6,790.00	6,790.00	6,790.00
2868	50KVA AVR	Each	187,821.08	187,821.08	187,821.08	187,821.08
2869	6' x 6' Motorized / Electric Screen	Each	7,500.00	7,500.00	7,500.00	7,500.00
2870	60/63A (16KA) TPMCCB	Each	6,790.00	6,790.00	6,790.00	6,790.00
2871	600/630A (36KA) TPMCCB	Each	44,310.00	44,310.00	44,310.00	44,310.00
2872	60KVA AVR	Each	193,999.41	193,999.41	193,999.41	193,999.41
2873	75KVA AVR	Each	251,490.96	251,490.96	251,490.96	251,490.96
2874	8 channel NVR	Each	15,000.00	15,000.00	15,000.00	15,000.00
2875	800A (50KA) TPMCCB	Each	60,900.00	60,900.00	60,900.00	60,900.00
2876	80A (16KA) TPMCCB	Each	6,860.00	6,860.00	6,860.00	6,860.00
2877	Air compressor (screw type) 250 cfm with necessary piping arranagement and accessories.	Day	3,300.00	3,300.00	3,300.00	3,300.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2878	Anchorage of 12K13/ 12T13 System	set	5,500.00	5,500.00	5,500.00	5,500.00
2879	Anchorage of 12K15/ 12T15 System	set	9,900.00	9,900.00	9,900.00	9,900.00
2880	Anchorage of 19K13/ 19T13 System	set	8,580.00	8,580.00	8,580.00	8,580.00
2881	Anchorage of 19K15/ 19T15 System	set	11,550.00	11,550.00	11,550.00	11,550.00
2882	Anchorage of 7K13/ 7T13 System	set	3,960.00	3,960.00	3,960.00	3,960.00
2883	Anchorage of 7K15/ 7T15 System	set	7,700.00	7,700.00	7,700.00	7,700.00
2884	Audio equalizers	Each	50,000.00	50,000.00	50,000.00	50,000.00
2885	Bed / Str. Lift, 1250 kG, speed upto 1.5 m/s	Each	6,387,201.00	6,387,201.00	6,387,201.00	6,387,201.00
2886	Bed / Str. Lift, 1600 kG, speed upto 1.5 m/s	Each	7,185,601.00	7,185,601.00	7,185,601.00	7,185,601.00
2887	Buchholz relay	Each	50,000.00	50,000.00	50,000.00	50,000.00
2888	Cargo//Goods/Service Lift, 2000 kG, speed upto 1.5 m/s	Each	9,286,151.70	9,286,151.70	9,286,151.70	9,286,151.70
2889	Cargo//Goods/Service Lift, 2500 kG, speed upto 1.5 m/s	Each	10,926,284.00	10,926,284.00	10,926,284.00	10,926,284.00
2890	Ceiling Speaker, 6W-12W	Each	8,500.00	8,500.00	8,500.00	8,500.00
2891	COLOR GELATIN FILTER	Each	989.00	989.00	989.00	989.00
2892	Column Speaker, 10W - 15W	Each	14,500.00	14,500.00	14,500.00	14,500.00
2893	Column Speaker, 16W - 20W	Each	17,500.00	17,500.00	17,500.00	17,500.00
2894	Column Speaker, 21W - 30W	Each	19,500.00	19,500.00	19,500.00	19,500.00
2895	Condenser microphone	Each	29,400.00	29,400.00	29,400.00	29,400.00
2896	CYCLOROMA LIGHT, Halogen Version 1000W	Each	30,000.00	30,000.00	30,000.00	30,000.00
2897	Digital Topographical Survey & Collection of Hydraulic Data including equipment & transportation	km2	22,000.00	22,000.00	22,000.00	22,000.00
2898	Digital Topographical Survey of Single Lane Road Alignment including equipment & transportation	km	16,500.00	16,500.00	16,500.00	16,500.00
2899	DIMMER, 12 Channel (rack mounted)	Each	246,250.00	246,250.00	246,250.00	246,250.00
2900	double core current transformer (CT)	Each	30,000.00	30,000.00	30,000.00	30,000.00
2901	DSP based Digital loudspeaker management system (2/6)	Each	245,000.00	245,000.00	245,000.00	245,000.00
2902	FLOOD LIGHT, Halogen Version 500 W	Each	14,000.00	14,000.00	14,000.00	14,000.00
2903	Floor type microphone stand	Each	5,000.00	5,000.00	5,000.00	5,000.00
2904	FRESNEL SPOT LIGHT, Halogen Version, 1000 W	Each	52,000.00	52,000.00	52,000.00	52,000.00
2905	FRESNEL SPOT LIGHT, Halogen Version, 500W	Each	48,000.00	48,000.00	48,000.00	48,000.00
2906	HALOGEN SPARE LAMP, Quartz (Pin type), 1000 W	Each	5,299.00	5,299.00	5,299.00	5,299.00
2907	HALOGEN SPARE LAMP, Quartz (Pin type), 500 W	Each	4,652.00	4,652.00	4,652.00	4,652.00
2908	Halogen Version - PAR 64 CAN (1000 W)	Each	18,000.00	18,000.00	18,000.00	18,000.00
2909	Horn Speaker	Each	12,300.00	12,300.00	12,300.00	12,300.00
2910	HT (11 KV) SWITCHGEAR (LBS)	Each	320,000.00	320,000.00	320,000.00	320,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2911	Split Air Cooler-Cassette Type (45000-48000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	212,000.00	212,000.00	212,000.00	212,000.00
2912	Split Air Cooler-Cassette Type 54000 BTU/hr) in/c. all accessories, wires, copper pipes, etc	m	234,000.00	234,000.00	234,000.00	234,000.00
2913	HT LBS unit	Each	260,000.00	260,000.00	260,000.00	260,000.00
2914	HT potential transformer	Each	30,000.00	30,000.00	30,000.00	30,000.00
2915	IDMT relay	Each	70,000.00	70,000.00	70,000.00	70,000.00
2916	IRON CHANNEL	Meter	900.00	900.00	900.00	900.00
2917	Junction box	Set	4,000.00	4,000.00	4,000.00	4,000.00
2918	Lift Installation - 1250 kg. - 1600 kg. capacity upto 3-stop	Job	90,319.49	90,319.49	90,319.49	90,319.49
2919	Lift Installation - 630 kg. - 1000 kg. capacity upto 3-stop	Job	77,189.31	77,189.31	77,189.31	77,189.31
2920	Lift Installation - Next per stop	Job	15,487.50	15,487.50	15,487.50	15,487.50
2921	LIGHT BATTEN (LOCAL)	Each	27,606.00	27,606.00	27,606.00	27,606.00
2922	LIGHT CONTROLLER, 24 Channel	Each	195,750.00	195,750.00	195,750.00	195,750.00
2923	LIGHT CONTROLLER, DMX -512	Each	347,450.00	347,450.00	347,450.00	347,450.00
2924	LT SWITCH GEAR For 1000 KVA Transformer	Each	1,100,950.00	1,100,950.00	1,100,950.00	1,100,950.00
2925	LT SWITCH GEAR For 1250 KVA Transformer	Each	1,251,300.00	1,251,300.00	1,251,300.00	1,251,300.00
2926	LT SWITCH GEAR For 150 KVA Transformer	Each	175,750.00	175,750.00	175,750.00	175,750.00
2927	LT SWITCH GEAR For 1500/1600 KVA Transformer	Each	1,411,350.00	1,411,350.00	1,411,350.00	1,411,350.00
2928	LT SWITCH GEAR For 200 KVA Transformer	Each	209,000.00	209,000.00	209,000.00	209,000.00
2929	LT SWITCH GEAR For 2000 KVA Transformer	Each	1,920,600.00	1,920,600.00	1,920,600.00	1,920,600.00
2930	LT SWITCH GEAR For 250 KVA Transformer	Each	247,000.00	247,000.00	247,000.00	247,000.00
2931	LT SWITCH GEAR For 300/315 KVA Transformer	Each	273,125.00	273,125.00	273,125.00	273,125.00
2932	LT SWITCH GEAR For 400 KVA Transformer	Each	342,000.00	342,000.00	342,000.00	342,000.00
2933	LT SWITCH GEAR For 500 KVA Transformer	Each	465,600.00	465,600.00	465,600.00	465,600.00
2934	LT SWITCH GEAR For 600/630 KVA Transformer	Each	615,950.00	615,950.00	615,950.00	615,950.00
2935	LT SWITCH GEAR For 800 KVA Transformer	Each	708,100.00	708,100.00	708,100.00	708,100.00
2936	Microphone cables (twin core shielded)	Meter	130.00	130.00	130.00	130.00
2937	Mobile Generator, 20 KVA	Each	1,386,000.00	1,386,000.00	1,386,000.00	1,386,000.00
2938	Monitor, 32 inch Display	Each	28,900.00	28,900.00	28,900.00	28,900.00
2939	Multi effect processor	Each	55,000.00	55,000.00	55,000.00	55,000.00
2940	Multi Media Projector (5000 ANSI Lumens)	Each	205,000.00	205,000.00	205,000.00	205,000.00
2941	Next Per Stop Bed / Str. Lift	Each	156,651.40	156,651.40	156,651.40	156,651.40
2942	Next Per Stop Cargo Lift	Each	224,216.30	224,216.30	224,216.30	224,216.30
2943	Next Per Stop Passenger Lift	Each	153,373.90	153,373.90	153,373.90	153,373.90
2944	OFF-GRID SOLAR PANEL SYSTEM	kWp	140,000.00	140,000.00	140,000.00	140,000.00
2945	Oil level indicator	Each	5,000.00	5,000.00	5,000.00	5,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2946	ON-GRID SOLAR PANEL SYSTEM	KWp	105,000.00	105,000.00	105,000.00	105,000.00
2947	Outdoor type dropout fuse	Set	20,000.00	20,000.00	20,000.00	20,000.00
2948	Outdoor type lightning arrester	Set	15,000.00	15,000.00	15,000.00	15,000.00
2949	Panel heater	Each	8,000.00	8,000.00	8,000.00	8,000.00
2950	Passenger Lift, 1000 kG, speed upto 1.5 m/s	Each	5,588,801.00	5,588,801.00	5,588,801.00	5,588,801.00
2951	Passenger Lift, 1250 kG, speed upto 1.5 m/s	Each	6,387,201.00	6,387,201.00	6,387,201.00	6,387,201.00
2952	Passenger Lift, 1600 kG, speed upto 1.5 m/s	Each	7,185,601.00	7,185,601.00	7,185,601.00	7,185,601.00
2953	Passenger Lift, 630 kG, speed upto 1.5 m/s	Each	3,981,514.00	3,981,514.00	3,981,514.00	3,981,514.00
2954	Passenger Lift, 800 kG, speed upto 1.5 m/s	Each	4,834,880.00	4,834,880.00	4,834,880.00	4,834,880.00
2955	PFC relay 6 stages	Each	16,000.00	16,000.00	16,000.00	16,000.00
2956	PFC relay 9 stages	Each	20,000.00	20,000.00	20,000.00	20,000.00
2957	PFI Capacitor, 10 KVAR	Each	7,715.00	7,715.00	7,715.00	7,715.00
2958	PFI Capacitor, 12.5 KVAR	Each	8,000.00	8,000.00	8,000.00	8,000.00
2959	PFI Capacitor, 20 KVAR	Each	14,320.00	14,320.00	14,320.00	14,320.00
2960	PFI Capacitor, 25 KVAR	Each	15,000.00	15,000.00	15,000.00	15,000.00
2961	PFI Capacitor, 5 KVAR	Each	4,000.00	4,000.00	4,000.00	4,000.00
2962	PFI Capacitor, 7.5 KVAR	Each	6,000.00	6,000.00	6,000.00	6,000.00
2963	POWER FACTOR IMPROVEMENT PANEL For 1000 KVA Transformer	Each	596,550.00	596,550.00	596,550.00	596,550.00
2964	POWER FACTOR IMPROVEMENT PANEL For 1250 KVA Transformer	Each	766,300.00	766,300.00	766,300.00	766,300.00
2965	POWER FACTOR IMPROVEMENT PANEL For 150 KVA Transformer	Each	156,750.00	156,750.00	156,750.00	156,750.00
2966	POWER FACTOR IMPROVEMENT PANEL For 1500/1600 KVA Transformer	Each	814,800.00	814,800.00	814,800.00	814,800.00
2967	POWER FACTOR IMPROVEMENT PANEL For 200 KVA Transformer	Each	182,400.00	182,400.00	182,400.00	182,400.00
2968	POWER FACTOR IMPROVEMENT PANEL For 2000 KVA Transformer	Each	994,250.00	994,250.00	994,250.00	994,250.00
2969	POWER FACTOR IMPROVEMENT PANEL For 250 KVA Transformer	Each	218,500.00	218,500.00	218,500.00	218,500.00
2970	POWER FACTOR IMPROVEMENT PANEL For 300/315 KVA Transformer	Each	256,500.00	256,500.00	256,500.00	256,500.00
2971	POWER FACTOR IMPROVEMENT PANEL For 400 KVA Transformer	Each	304,000.00	304,000.00	304,000.00	304,000.00
2972	POWER FACTOR IMPROVEMENT PANEL For 500 KVA Transformer	Each	351,500.00	351,500.00	351,500.00	351,500.00
2973	POWER FACTOR IMPROVEMENT PANEL For 600/630 KVA Transformer	Each	421,950.00	421,950.00	421,950.00	421,950.00
2974	POWER FACTOR IMPROVEMENT PANEL For 800 KVA Transformer	Each	514,100.00	514,100.00	514,100.00	514,100.00
2975	PROFILE SPOT LIGHT, Halogen Version, 1000 W	Each	77,500.00	77,500.00	77,500.00	77,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
2976	PVC Centralizers for Soil Nails	each	55.00	55.00	55.00	55.00
2977	Rigging accessories	Lot	268,900.00	268,900.00	268,900.00	268,900.00
2978	SCANNER LIGHT 118 W	Each	79,450.00	79,450.00	79,450.00	79,450.00
2979	Silcagel	Each	900.00	900.00	900.00	900.00
2980	Silcagel breather container	Each	3,000.00	3,000.00	3,000.00	3,000.00
2981	single core current transformer	Each	25,000.00	25,000.00	25,000.00	25,000.00
2982	SINGLE LINE TELEPHONE SET, Executive use (30 Stations)	Each	2,100.00	2,100.00	2,100.00	2,100.00
2983	SINGLE LINE TELEPHONE SET, Normal use	Each	1,200.00	1,200.00	1,200.00	1,200.00
2984	Split Type Air Cooler, 17000-18000 BTU/HR, Wall mounted	Each	80,000.00	80,000.00	80,000.00	80,000.00
2985	Split Type Air Cooler, 22500-24000 BTU/HR, Cassette type	Each	129,200.00	129,200.00	129,200.00	129,200.00
2986	Split Type Air Cooler, 22500-24000 BTU/HR, Wall mounted	Each	90,000.00	90,000.00	90,000.00	90,000.00
2987	Split Type Air Cooler, 28000-30000 BTU/HR, Wall mounted	Each	140,000.00	140,000.00	140,000.00	140,000.00
2988	Split Type Air Cooler, 34000-36000 BTU/HR, Cassette type	Each	190,000.00	190,000.00	190,000.00	190,000.00
2989	Split Type Air Cooler, 34000-36000 BTU/HR, Ceiling suspended	Each	171,000.00	171,000.00	171,000.00	171,000.00
2990	Split Type Air Cooler, 46000-48000 BTU/HR, Cassette type	Each	215,000.00	215,000.00	215,000.00	215,000.00
2991	Split Type Air Cooler, 46000-48000 BTU/HR, Ceiling suspended	Each	195,000.00	195,000.00	195,000.00	195,000.00
2992	Split Type Air Cooler, 58000-60000 BTU/HR, Cassette type	Each	250,000.00	250,000.00	250,000.00	250,000.00
2993	Split Type Air Cooler, 58000-60000 BTU/HR, Ceiling suspended	Each	237,612.00	237,612.00	237,612.00	237,612.00
2994	Stage Monitor Speaker, Continuous power: 250W-300W	Each	152,000.00	152,000.00	152,000.00	152,000.00
2995	STANDARD MASTER TELEPHONE SET, For use in 16+120 line	Each	9,500.00	9,500.00	9,500.00	9,500.00
2996	STANDARD MASTER TELEPHONE SET, For use in 8+32 line	Each	7,500.00	7,500.00	7,500.00	7,500.00
2997	Table type microphone stand	Each	4,200.00	4,200.00	4,200.00	4,200.00
2998	THREE PHASE DRY TYPE TRANSFORMER 1000 KVA	Each	2,450,000.00	2,450,000.00	2,450,000.00	2,450,000.00
2999	THREE PHASE DRY TYPE TRANSFORMER 1250 KVA	Each	2,850,000.00	2,850,000.00	2,850,000.00	2,850,000.00
3000	THREE PHASE DRY TYPE TRANSFORMER 1500/1600 KVA	Each	3,242,250.00	3,242,250.00	3,242,250.00	3,242,250.00
3001	THREE PHASE DRY TYPE TRANSFORMER 2000 KVA	Each	3,712,500.00	3,712,500.00	3,712,500.00	3,712,500.00
3002	THREE PHASE DRY TYPE TRANSFORMER 800 KVA	Each	1,810,000.00	1,810,000.00	1,810,000.00	1,810,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3003	THREE PHASE OIL TYPE TRANSFORMER 1000 KVA with Buchholz relay	Each	1,556,775.00	1,556,775.00	1,556,775.00	1,556,775.00
3004	THREE PHASE OIL TYPE TRANSFORMER 1250 KVA with Buchholz relay	Each	1,851,300.00	1,851,300.00	1,851,300.00	1,851,300.00
3005	THREE PHASE OIL TYPE TRANSFORMER 150 KVA	Each	385,728.00	385,728.00	385,728.00	385,728.00
3006	THREE PHASE OIL TYPE TRANSFORMER 1500/1600 KVA with Buchholz relay	Each	2,229,975.00	2,229,975.00	2,229,975.00	2,229,975.00
3007	THREE PHASE OIL TYPE TRANSFORMER 200 KVA	Each	450,016.00	450,016.00	450,016.00	450,016.00
3008	THREE PHASE OIL TYPE TRANSFORMER 2000 KVA with Buchholz relay	Each	2,776,950.00	2,776,950.00	2,776,950.00	2,776,950.00
3009	THREE PHASE OIL TYPE TRANSFORMER 250 KVA	Each	522,340.00	522,340.00	522,340.00	522,340.00
3010	THREE PHASE OIL TYPE TRANSFORMER 300/315 KVA	Each	602,700.00	602,700.00	602,700.00	602,700.00
3011	THREE PHASE OIL TYPE TRANSFORMER 400 KVA	Each	746,856.00	746,856.00	746,856.00	746,856.00
3012	THREE PHASE OIL TYPE TRANSFORMER 500 KVA	Each	862,488.00	862,488.00	862,488.00	862,488.00
3013	THREE PHASE OIL TYPE TRANSFORMER 600/630 KVA with Buchholz relay	Each	1,051,875.00	1,051,875.00	1,051,875.00	1,051,875.00
3014	THREE PHASE OIL TYPE TRANSFORMER 800 KVA with Buchholz relay	Each	1,363,230.00	1,363,230.00	1,363,230.00	1,363,230.00
3015	Transformer oil	Each	265.00	265.00	265.00	265.00
3016	Tungsten Halogen Lamp, 1000 W	Each	1,006.00	1,006.00	1,006.00	1,006.00
3017	Tungsten Halogen Lamp, 500 W	Each	744.00	744.00	744.00	744.00
3018	Vocal microphone	Each	13,500.00	13,500.00	13,500.00	13,500.00
3019	WINDOW TYPE AIR-COOLER 17001 - 18000 BTU/HR	Each	70,000.00	70,000.00	70,000.00	70,000.00
3020	WINDOW TYPE AIR-COOLER 22501 - 24000 BTU/HR	Each	83,000.00	83,000.00	83,000.00	83,000.00
3021	Wireless Microphones (Hand Held Type)	Each	55,000.00	55,000.00	55,000.00	55,000.00
3022	Wireless Microphones (Tie ClipType)	Each	47,800.00	47,800.00	47,800.00	47,800.00
	Mechanical Works Related Items					
3021	A/C pump of Microbus LiteAce	Pc.	5,500.00	5,500.00	5,500.00	5,500.00
3022	A/C pump of Mitsubishi Outlander Jeep	Pc.	5,225.00	5,225.00	5,225.00	5,225.00
3023	Accelerator cable of Microbus LiteAce	Pc.	1,000.00	1,000.00	1,000.00	1,000.00
3024	Accelerator cable of Mitsubishi Outlander Jeep	Pc.	3,000.00	3,000.00	3,000.00	3,000.00
3025	Air cleaner filter of Microbus LiteAce	Pc.	1,200.00	1,200.00	1,200.00	1,200.00
3026	Air cleaner filter of Mitsubishi Outlander Jeep	Pc.	1,800.00	1,800.00	1,800.00	1,800.00
3027	Axle bearing of Microbus LiteAce	Pc.	1,800.00	1,800.00	1,800.00	1,800.00
3028	Axle bearing of Mitsubishi Outlander Jeep	Pc.	7,000.00	7,000.00	7,000.00	7,000.00
3029	Axle oil seal of Microbus LiteAce	set	2,000.00	2,000.00	2,000.00	2,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3030	Axle oil seal of Mitsubishi Outlander Jeep	set	1,000.00	1,000.00	1,000.00	1,000.00
3031	Back light of Microbus LiteAce	Pc.	4,000.00	4,000.00	4,000.00	4,000.00
3032	Back light of Mitsubishi Outlander Jeep	Pc.	30,000.00	30,000.00	30,000.00	30,000.00
3033	Ball joint of Microbus LiteAce	set	5,500.00	5,500.00	5,500.00	5,500.00
3034	Ball joint of Mitsubishi Outlander Jeep	set	4,500.00	4,500.00	4,500.00	4,500.00
3035	Battery terminal of Microbus LiteAce	set	250.00	250.00	250.00	250.00
3036	Battery terminal of Mitsubishi Outlander Jeep	set	300.00	300.00	300.00	300.00
3037	Brake shoe/ pad complete of Microbus LiteAce	set	4,000.00	4,000.00	4,000.00	4,000.00
3038	Brake shoe/ pad complete of Mitsubishi Outlander Jeep	set	4,813.00	4,813.00	4,813.00	4,813.00
3039	Cam shaft of Mitsubishi Outlander Jeep	piece	3,025.00	3,025.00	3,025.00	3,025.00
3040	Carburettor complete of Microbus LiteAce	Pc.	28,000.00	28,000.00	28,000.00	28,000.00
3041	Carburettor complete of Mitsubishi Outlander Jeep	Pc.	41,250.00	41,250.00	41,250.00	41,250.00
3042	Clutch cable of Microbus LiteAce	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3043	Clutch cable of Mitsubishi Outlander Jeep	Pc.	4,000.00	4,000.00	4,000.00	4,000.00
3044	Clutch plate of Microbus LiteAce	Pc.	5,400.00	5,400.00	5,400.00	5,400.00
3045	Clutch plate of Mitsubishi Outlander Jeep	Pc.	6,188.00	6,188.00	6,188.00	6,188.00
3046	Connecting rod bush of Microbus LiteAce	set	1,500.00	1,500.00	1,500.00	1,500.00
3047	Connecting rod bush of Mitsubishi Outlander Jeep	set	1,800.00	1,800.00	1,800.00	1,800.00
3048	Cross bearing of Microbus LiteAce	piece	1,500.00	1,500.00	1,500.00	1,500.00
3049	Cross bearing of Mitsubishi Outlander Jeep	piece	2,063.00	2,063.00	2,063.00	2,063.00
3050	Dipper switch of Microbus LiteAce	Pc.	1,000.00	1,000.00	1,000.00	1,000.00
3051	Dipper switch of Mitsubishi Outlander Jeep	Pc.	18,000.00	18,000.00	18,000.00	18,000.00
3052	Door glass rubber channel of Microbus LiteAce	set	3,500.00	3,500.00	3,500.00	3,500.00
3053	Door handle of Mitsubishi Outlander Jeep	Pc.	4,000.00	4,000.00	4,000.00	4,000.00
3054	Door lock of Microbus LiteAce	Pc.	800.00	800.00	800.00	800.00
3055	Door lock of Mitsubishi Outlander Jeep	Pc.	3,000.00	3,000.00	3,000.00	3,000.00
3056	Dynamo complete of Microbus LiteAce	set	12,500.00	12,500.00	12,500.00	12,500.00
3057	Dynamo complete of Mitsubishi Outlander Jeep	set	34,000.00	34,000.00	34,000.00	34,000.00
3058	Dynamo pulley of Microbus LiteAce	Pc.	1,500.00	1,500.00	1,500.00	1,500.00
3059	Dynamo pulley of Mitsubishi Outlander Jeep	Pc.	2,750.00	2,750.00	2,750.00	2,750.00
3060	Engine fan of Microbus LiteAce	piece	3,500.00	3,500.00	3,500.00	3,500.00
3061	Engine fan of Mitsubishi Outlander Jeep	piece	5,500.00	5,500.00	5,500.00	5,500.00
3062	Engine head gasket of Microbus LiteAce	piece	1,500.00	1,500.00	1,500.00	1,500.00
3063	Engine head valve guide of Microbus LiteAce	set	1,500.00	1,500.00	1,500.00	1,500.00
3064	Engine head valve guide of Mitsubishi Outlander Jeep	set	2,000.00	2,000.00	2,000.00	2,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3065	Engine head valve of Microbus LiteAce	set	7,000.00	7,000.00	7,000.00	7,000.00
3066	Engine head valve of Mitsubishi Outlander Jeep	set	13,063.00	13,063.00	13,063.00	13,063.00
3067	Engine liner of Microbus LiteAce	set	4,500.00	4,500.00	4,500.00	4,500.00
3068	Engine mounting of Microbus LiteAce	set	2,800.00	2,800.00	2,800.00	2,800.00
3069	Engine mounting of Mitsubishi Outlander Jeep	set	17,875.00	17,875.00	17,875.00	17,875.00
3070	Fan belt of Microbus LiteAce	Pc.	650.00	650.00	650.00	650.00
3071	Fan belt of Mitsubishi Outlander Jeep	Pc.	4,125.00	4,125.00	4,125.00	4,125.00
3072	Fuel filter of Microbus LiteAce	Pc.	600.00	600.00	600.00	600.00
3073	Fuel filter of Mitsubishi Outlander Jeep	Pc.	3,500.00	3,500.00	3,500.00	3,500.00
3074	Gear box mounting of Microbus LiteAce	Pc.	4,500.00	4,500.00	4,500.00	4,500.00
3075	Gear box mounting of Mitsubishi Outlander Jeep	Pc.	6,600.00	6,600.00	6,600.00	6,600.00
3076	Gear box oil seal of Microbus LiteAce	set	1,000.00	1,000.00	1,000.00	1,000.00
3077	Gear box oil seal of Mitsubishi Outlander Jeep	set	1,000.00	1,000.00	1,000.00	1,000.00
3078	Head light complete of Microbus LiteAce	Pc.	4,000.00	4,000.00	4,000.00	4,000.00
3079	Head light complete of Mitsubishi Outlander Jeep	Pc.	32,000.00	32,000.00	32,000.00	32,000.00
3080	Head light switch of Microbus LiteAce	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3081	Head light switch of Mitsubishi Outlander Jeep	Pc.	13,000.00	13,000.00	13,000.00	13,000.00
3082	Horn of Microbus LiteAce	piece	1,500.00	1,500.00	1,500.00	1,500.00
3083	Horn of Mitsubishi Outlander Jeep	piece	700.00	700.00	700.00	700.00
3084	Horn switch of Microbus LiteAce	Pc.	1,000.00	1,000.00	1,000.00	1,000.00
3085	Horn switch of Mitsubishi Outlander Jeep	Pc.	688.00	688.00	688.00	688.00
3086	Hubs bearing of Microbus LiteAce	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3087	Hubs bearing of Mitsubishi Outlander Jeep	Pc.	7,000.00	7,000.00	7,000.00	7,000.00
3088	Hubs oil seal of Microbus LiteAce	set	1,200.00	1,200.00	1,200.00	1,200.00
3089	Hubs oil seal of Mitsubishi Outlander Jeep	set	1,000.00	1,000.00	1,000.00	1,000.00
3090	Indicating flasher of Microbus LiteAce	piece	1,500.00	1,500.00	1,500.00	1,500.00
3091	Indicating flasher of Mitsubishi Outlander Jeep	piece	1,500.00	1,500.00	1,500.00	1,500.00
3092	Injection nozzle of Mitsubishi Outlander Jeep	set	32,000.00	32,000.00	32,000.00	32,000.00
3093	Kin pin bearing of Microbus LiteAce	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3094	Kin pin bearing of Mitsubishi Outlander Jeep	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3095	Looking glass mirror of Microbus LiteAce	piece	2,000.00	2,000.00	2,000.00	2,000.00
3096	Looking glass mirror of Mitsubishi Outlander Jeep	piece	27,000.00	27,000.00	27,000.00	27,000.00
3097	Main and big end bearing of Microbus LiteAce	set	2,400.00	2,400.00	2,400.00	2,400.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3098	Main and big end bearing of Mitsubishi Outlander Jeep	set	3,200.00	3,200.00	3,200.00	3,200.00
3099	Mile meter cable of Microbus LiteAce	Pc.	1,500.00	1,500.00	1,500.00	1,500.00
3100	Mile meter cable of Mitsubishi Outlander Jeep	Pc.	4,813.00	4,813.00	4,813.00	4,813.00
3101	Mobil filter of Microbus LiteAce	Pc.	750.00	750.00	750.00	750.00
3102	Mobil filter of Mitsubishi Outlander Jeep	Pc.	650.00	650.00	650.00	650.00
3103	Oil pump of Microbus LiteAce	Pc.	4,800.00	4,800.00	4,800.00	4,800.00
3104	Oil pump of Mitsubishi Outlander Jeep	Pc.	23,375.00	23,375.00	23,375.00	23,375.00
3105	Overhauling Kit of Microbus LiteAce	set	3,500.00	3,500.00	3,500.00	3,500.00
3106	Overhauling Kit of Mitsubishi Outlander Jeep	set	8,250.00	8,250.00	8,250.00	8,250.00
3107	Piston of Microbus LiteAce	set	6,000.00	6,000.00	6,000.00	6,000.00
3108	Piston of Mitsubishi Outlander Jeep	set	24,750.00	24,750.00	24,750.00	24,750.00
3109	Piston ring of Microbus LiteAce	set	5,500.00	5,500.00	5,500.00	5,500.00
3110	Piston ring of Mitsubishi Outlander Jeep	set	10,313.00	10,313.00	10,313.00	10,313.00
3111	Pressure plate of Microbus LiteAce	Pc.	6,000.00	6,000.00	6,000.00	6,000.00
3112	Pressure plate of Mitsubishi Outlander Jeep	Pc.	10,313.00	10,313.00	10,313.00	10,313.00
3113	Release bearing of Microbus LiteAce	piece	1,800.00	1,800.00	1,800.00	1,800.00
3114	Release bearing of Mitsubishi Outlander Jeep	piece	4,000.00	4,000.00	4,000.00	4,000.00
3115	Self starter of Microbus LiteAce	piece	9,500.00	9,500.00	9,500.00	9,500.00
3116	Shock absorber mounting of Microbus LiteAce	set	5,000.00	5,000.00	5,000.00	5,000.00
3117	Shock absorber mounting of Mitsubishi Outlander Jeep	set	7,000.00	7,000.00	7,000.00	7,000.00
3118	Shock absorber of Microbus LiteAce	set	10,000.00	10,000.00	10,000.00	10,000.00
3119	Shock absorber of Mitsubishi Outlander Jeep	set	38,500.00	38,500.00	38,500.00	38,500.00
3120	Tie rod end of Microbus LiteAce	set	4,500.00	4,500.00	4,500.00	4,500.00
3121	Tie rod end of Mitsubishi Outlander Jeep	set	4,000.00	4,000.00	4,000.00	4,000.00
3122	Top shaft bearing of Microbus LiteAce	Pc.	2,000.00	2,000.00	2,000.00	2,000.00
3123	Top shaft bearing of Mitsubishi Outlander Jeep	Pc.	1,000.00	1,000.00	1,000.00	1,000.00
3124	Top shaft oil seal of Microbus LiteAce	piece	600.00	600.00	600.00	600.00
3125	Top shaft oil seal of Mitsubishi Outlander Jeep	piece	1,000.00	1,000.00	1,000.00	1,000.00
3126	Water pump of Microbus LiteAce	Pc.	2,600.00	2,600.00	2,600.00	2,600.00
3127	Water pump of Mitsubishi Outlander Jeep	Pc.	7,563.00	7,563.00	7,563.00	7,563.00
3128	Wheel cylinder complete of Microbus LiteAce	piece	3,000.00	3,000.00	3,000.00	3,000.00
3129	Wheel cylinder complete of Mitsubishi Outlander Jeep	piece	2,000.00	2,000.00	2,000.00	2,000.00
3130	Wind shield glass rubber channel of Microbus LiteAce	set	3,500.00	3,500.00	3,500.00	3,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3131	Wiper blade of Microbus LiteAce	set	1,000.00	1,000.00	1,000.00	1,000.00
3132	Wiper blade of Mitsubishi Outlander Jeep	set	500.00	500.00	500.00	500.00
3133	Wiper motor of Microbus LiteAce	Pc.	6,000.00	6,000.00	6,000.00	6,000.00
3134	Wiper motor of Mitsubishi Outlander Jeep	Pc.	16,000.00	16,000.00	16,000.00	16,000.00
3135	Wiper switch of Microbus LiteAce	Pc.	1,000.00	1,000.00	1,000.00	1,000.00
3136	Wiper switch of Mitsubishi Outlander Jeep	Pc.	18,000.00	18,000.00	18,000.00	18,000.00
	Fire Detection & Protection System					
3137	100 mm (4 inch) dia, wall thickness: 6.0mm, Black Steel Pipe ERW, 40	m	6,297.60	6,297.60	6,297.60	6,297.60
3138	12 mm (1/2 inch) dia, wall thickness: 2.8mm, Black Steel Pipe ERW, 40	m	623.20	623.20	623.20	623.20
3139	150 mm (6 inch) dia, wall thickness: 7.1mm, Black Steel Pipe ERW, 40	m	7,872.00	7,872.00	7,872.00	7,872.00
3140	2.5" zone control valve set (PWD E/M 14.30.4)	each	50,000.00	50,000.00	50,000.00	50,000.00
3141	20 mm (3/4 inch) dia, wall thickness: 2.9mm, Black Steel Pipe ERW, 40	m	967.60	967.60	967.60	967.60
3142	25 mm (1inch) dia, wall thickness: 3.4mm, Black Steel Pipe ERW, 40	m	1,394.00	1,394.00	1,394.00	1,394.00
3143	250 mm (10 inch) dia,wall thickness: 8.2mm, Black Steel Pipe ERW, 40	m	10,168.00	10,168.00	10,168.00	10,168.00
3144	3" zone control valve set	each	57,000.00	57,000.00	57,000.00	57,000.00
3145	32 mm (1.25 inch) dia, wall thickness: 3.6mm, Black Steel Pipe ERW, 40	m	1,476.00	1,476.00	1,476.00	1,476.00
3146	4" zone control valve set	each	67,000.00	67,000.00	67,000.00	67,000.00
3147	40 mm (1½ inch) dia, wall thickness: 3.7mm, Black Steel Pipe ERW, 40	m	1,623.60	1,623.60	1,623.60	1,623.60
3148	50 mm (2 inch) dia, wall thickness: 3.9mm, Black Steel Pipe ERW, 40	m	1,935.20	1,935.20	1,935.20	1,935.20
3149	6" zone control valve set	each	72,000.00	72,000.00	72,000.00	72,000.00
3150	65 mm (2½ inch) dia, wall thickness: 5.2mm, Black Steel Pipe ERW, 40	m	3,116.00	3,116.00	3,116.00	3,116.00
3151	80mm (3 inch) dia, wall thickness: 5.5mm, Black Steel Pipe ERW, 40	m	4,592.00	4,592.00	4,592.00	4,592.00
3152	ABC powder	kg	160.00	160.00	160.00	160.00
3153	Abort Switch	each	8,500.00	8,500.00	8,500.00	8,500.00
3154	Addressable BACnet / Modbus Interface Module	each	85,000.00	85,000.00	85,000.00	85,000.00
3155	Addressable manual pull station : Single action	each	6,000.00	6,000.00	6,000.00	6,000.00
3156	Addressable manual pull station : Double action	each	8,000.00	8,000.00	8,000.00	8,000.00
3157	Addressable Multi Detector/Multi Sensors	each	6,500.00	6,500.00	6,500.00	6,500.00
3158	Addressable Type FACP 1001-1500 devices	each	650,000.00	650,000.00	650,000.00	650,000.00
3159	Addressable Type FACP 1501-2000 devices	each	800,000.00	800,000.00	800,000.00	800,000.00
3160	Addressable Type FACP 151-250 devices	each	320,000.00	320,000.00	320,000.00	320,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3161	Addressable Type FACP 251-500 devices	each	400,000.00	400,000.00	400,000.00	400,000.00
3162	Addressable Type FACP 501-750 devices	each	460,000.00	460,000.00	460,000.00	460,000.00
3163	Addressable Type FACP 751-1000 devices	each	550,000.00	550,000.00	550,000.00	550,000.00
3164	Addressable Type FACP up to 150 devices	each	275,000.00	275,000.00	275,000.00	275,000.00
3165	Addressable Type Heat Detector	each	4,500.00	4,500.00	4,500.00	4,500.00
3166	Addressable Type Photoelectric Smoke Detector	each	5,000.00	5,000.00	5,000.00	5,000.00
3167	Air Louver 1200 x 350 mm	each	10,428.00	10,428.00	10,428.00	10,428.00
3168	Air Louver 1200 x 400 mm	each	11,160.00	11,160.00	11,160.00	11,160.00
3169	Air Louver 1500 x 550 mm	each	15,840.00	15,840.00	15,840.00	15,840.00
3170	Air Louver 1600 x 600 mm	each	18,432.00	18,432.00	18,432.00	18,432.00
3171	Air Louver 1650 x 550 mm	each	17,424.00	17,424.00	17,424.00	17,424.00
3172	Air Louver 1700 x 600 mm	each	19,584.00	19,584.00	19,584.00	19,584.00
3173	Air Louver 2200 x 800 mm	each	33,792.00	33,792.00	33,792.00	33,792.00
3174	Air Louver 400 x 200 mm	each	2,560.00	2,560.00	2,560.00	2,560.00
3175	Air Louver 400 x 250 mm	each	3,200.00	3,200.00	3,200.00	3,200.00
3176	Air Louver 450 x 200 mm	each	2,880.00	2,880.00	2,880.00	2,880.00
3177	Air Louver 450 x 250 mm	each	3,240.00	3,240.00	3,240.00	3,240.00
3178	Air Louver 750 x 350 mm	each	6,864.00	6,864.00	6,864.00	6,864.00
3179	Air Louver 850 x 350 mm	each	7,616.00	7,616.00	7,616.00	7,616.00
3180	Air Louver 900 x 350 mm	each	8,052.00	8,052.00	8,052.00	8,052.00
3181	Air Louver 900 x 400 mm	each	9,108.00	9,108.00	9,108.00	9,108.00
3182	Angle valve : 1½" dia	each	11,800.00	11,800.00	11,800.00	11,800.00
3183	Anti-Vortex Plate 150 mm (6 inch) dia	each	30,000.00	30,000.00	30,000.00	30,000.00
3184	Anti-Vortex Plate 40 mm (1½ inch) dia	each	8,000.00	8,000.00	8,000.00	8,000.00
3185	Anti-Vortex Plate 50 mm (2 inch) dia	each	10,000.00	10,000.00	10,000.00	10,000.00
3186	Anti-Vortex Plate 65 mm (2½ inch) dia	each	15,000.00	15,000.00	15,000.00	15,000.00
3187	Anti-Vortex Plate 200 mm (8 inch) dia	each	40,000.00	40,000.00	40,000.00	40,000.00
3188	Anti-Vortex Plate 250 mm (10 inch) dia	each	50,000.00	50,000.00	50,000.00	50,000.00
3189	Aspiration Detection System (Addressable Type) Area Coverage 1000 m2	each	525,000.00	525,000.00	525,000.00	525,000.00
3190	Aspiration Detection System (Addressable Type) Area Coverage 2000 m2	each	665,000.00	665,000.00	665,000.00	665,000.00
3191	Aspiration Detection System (Addressable Type) Area Coverage 250 m2	each	335,000.00	335,000.00	335,000.00	335,000.00
3192	Aspiration Detection System (Addressable Type) Area Coverage 500 m2	each	455,000.00	455,000.00	455,000.00	455,000.00
3193	Auto Air Vent Valve	each	15,000.00	15,000.00	15,000.00	15,000.00
3194	Balancing, Testing & Commissioning of Fire Detection & Alarm for 16 Zone	each	50,000.00	49,100.00	45,700.00	45,700.00
3195	Balancing, Testing & Commissioning of Fire Detection & Alarm for 24 Zone	each	75,000.00	73,650.00	68,550.00	68,550.00
3196	Balancing, Testing & Commissioning of Fire Detection & Alarm for 8 Zone	each	25,000.00	24,550.00	22,850.00	22,850.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3197	Balancing, Testing & commissioning of Fire Hydrant system for level : 1 to 6	each	25,000.00	24,550.00	22,850.00	22,850.00
3198	Balancing, Testing & commissioning of Fire Hydrant system for next floor add	each	5,000.00	4,910.00	4,570.00	4,570.00
3199	Ball Valves Class: PN16, 12 mm (½ inch) dia	each	780.00	780.00	780.00	780.00
3200	Ball Valves Class: PN16, 20 mm (¾ inch) dia	each	1,450.00	1,450.00	1,450.00	1,450.00
3201	Ball Valves Class: PN16, 25 mm (1inch) dia	each	2,200.00	2,200.00	2,200.00	2,200.00
3202	Ball Valves Class: PN16, 40 mm (1½ inch) dia	each	3,000.00	3,000.00	3,000.00	3,000.00
3203	Ball Valves Class: PN16, 50 mm (2 inch) dia	each	6,500.00	6,500.00	6,500.00	6,500.00
3204	Ball Valves Class: PN16, 65 mm (2½ inch) dia	each	9,000.00	9,000.00	9,000.00	9,000.00
3205	Beam Detector (Addressable)	each	100,000.00	100,000.00	100,000.00	100,000.00
3206	Carbon-Di-Oxide Type 3 Kg. capacity	each	2,530.50	2,530.50	2,528.50	3,103.00
3207	Carbon-Di-Oxide Type 5 Kg. capacity	each	4,030.50	4,030.50	4,028.50	4,943.00
3208	Cartridge up to 6 Kg	each	900.00	900.00	900.00	900.00
3209	Central Monitoring and Control Station	each	550,000.00	550,000.00	550,000.00	550,000.00
3210	Class - I cabinet (for 2.5'' hose rack assembly)	each	12,000.00	12,000.00	12,000.00	12,000.00
3211	Class - II cabinet (for 1.5'' hose rack assembly)	each	12,000.00	12,000.00	12,000.00	12,000.00
3212	Class - III cabinet (for 1.5'' hose rack assembly & 2.5 hose angle valve/ landing valve)	each	13,000.00	13,000.00	13,000.00	13,000.00
3213	Clean Agent Gas (Refilling)	kg	5,500.00	5,500.00	5,500.00	5,500.00
3214	Controller for JP (20 GPM, 10 BAR)	each	90,000.00	90,000.00	90,000.00	90,000.00
3215	Controller for JP (20 GPM, 12 BAR)	each	100,000.00	100,000.00	100,000.00	100,000.00
3216	Controller for JP (20 GPM, 14 BAR)	each	120,000.00	120,000.00	120,000.00	120,000.00
3217	Controller for JP (20 GPM, 9 BAR)	each	80,000.00	80,000.00	80,000.00	80,000.00
3218	Controller for JP (30 GPM, 10 BAR)	each	110,000.00	110,000.00	110,000.00	110,000.00
3219	Controller for JP (30 GPM, 12 BAR)	each	140,000.00	140,000.00	140,000.00	140,000.00
3220	Controller for JP (30 GPM, 14 BAR)	each	160,000.00	160,000.00	160,000.00	160,000.00
3221	Controller for JP (30 GPM, 9 BAR)	each	100,000.00	100,000.00	100,000.00	100,000.00
3222	Controller for JP (40 GPM, 10 BAR)	each	110,000.00	110,000.00	110,000.00	110,000.00
3223	Controller for JP (40 GPM, 12 BAR)	each	130,000.00	130,000.00	130,000.00	130,000.00
3224	Controller for JP (40 GPM, 14 BAR)	each	140,000.00	140,000.00	140,000.00	140,000.00
3225	Controller for JP (40 GPM, 9 BAR)	each	100,000.00	100,000.00	100,000.00	100,000.00
3226	Controller for JP (50 GPM, 10 BAR)	each	130,000.00	130,000.00	130,000.00	130,000.00
3227	Controller for JP (50 GPM, 12 BAR)	each	150,000.00	150,000.00	150,000.00	150,000.00
3228	Controller for JP (50 GPM, 14 BAR)	each	175,000.00	175,000.00	175,000.00	175,000.00
3229	Controller for JP (50 GPM, 9 BAR)	each	120,000.00	120,000.00	120,000.00	120,000.00
3230	Controller for motor driven Fire Pump 1000GPM, 10 BAR	each	171,000.00	171,000.00	171,000.00	171,000.00
3231	Controller for motor driven Fire Pump 1000GPM, 12 BAR	each	198,000.00	198,000.00	198,000.00	198,000.00
3232	Controller for motor driven Fire Pump 1000GPM, 14 BAR	each	216,000.00	216,000.00	216,000.00	216,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3233	Controller for motor driven Fire Pump 1000GPM, 9 BAR	each	162,000.00	162,000.00	162,000.00	162,000.00
3234	Controller for motor driven Fire Pump 1250GPM, 10 BAR	each	198,000.00	198,000.00	198,000.00	198,000.00
3235	Controller for motor driven Fire Pump 1250GPM, 12 BAR	each	247,500.00	247,500.00	247,500.00	247,500.00
3236	Controller for motor driven Fire Pump 1250GPM, 14 BAR	each	270,000.00	270,000.00	270,000.00	270,000.00
3237	Controller for motor driven Fire Pump 1250GPM, 9 BAR	each	180,000.00	180,000.00	180,000.00	180,000.00
3238	Controller for motor driven Fire Pump 500GPM, 10 BAR	each	117,000.00	117,000.00	117,000.00	117,000.00
3239	Controller for motor driven Fire Pump 500GPM, 12 BAR	each	135,000.00	135,000.00	135,000.00	135,000.00
3240	Controller for motor driven Fire Pump 500GPM, 14 BAR	each	162,000.00	162,000.00	162,000.00	162,000.00
3241	Controller for motor driven Fire Pump 500GPM, 9 BAR	each	108,000.00	108,000.00	108,000.00	108,000.00
3242	Controller for motor driven Fire Pump 750GPM, 10 BAR	each	126,000.00	126,000.00	126,000.00	126,000.00
3243	Controller for motor driven Fire Pump 750GPM, 12 BAR	each	157,500.00	157,500.00	157,500.00	157,500.00
3244	Controller for motor driven Fire Pump 750GPM, 14 BAR	each	180,000.00	180,000.00	180,000.00	180,000.00
3245	Controller for motor driven Fire Pump 750GPM, 9 BAR	each	117,000.00	117,000.00	117,000.00	117,000.00
3246	Conventional Type Fire Detection & Alarm System 08 zone capacity	each	70,550.00	70,550.00	70,550.00	70,550.00
3247	Conventional Type Fire Detection & Alarm System 16 zone capacity	each	78,850.00	78,850.00	78,850.00	78,850.00
3248	Conventional Type Fire Detection & Alarm System 24 zone capacity	each	98,000.00	98,000.00	98,000.00	98,000.00
3249	Discharge Hose	each	14,500.00	14,500.00	14,500.00	14,500.00
3250	Dry Chemical Powder Type 1 Kg. capacity	each	930.50	930.50	928.50	928.50
3251	Dry Chemical Powder Type 2 Kg. capacity	each	1,180.50	1,180.50	1,178.50	1,178.50
3252	Dry Chemical Powder Type 3 Kg. capacity	each	1,530.50	1,530.50	1,528.50	1,528.50
3253	Dry Chemical Powder Type 5 Kg. capacity	each	2,830.50	2,830.50	2,828.50	2,828.50
3254	Dry Chemical Powder Type 6 Kg. capacity	each	3,280.50	3,280.50	3,278.50	3,278.50
3255	Duct Detector	each	17,500.00	17,500.00	17,500.00	17,500.00
3256	Ducts made of 18 SWG GP Sheets	sqm	2,691.00	2,691.00	2,691.00	2,691.00
3257	Ducts made of 20 SWG GP Sheets	sqm	2,260.44	2,260.44	2,260.44	2,260.44
3258	Ducts made of 22 SWG GP Sheets	sqm	1,937.52	1,937.52	1,937.52	1,937.52
3259	Ducts made of 24 SWG GP Sheets	sqm	1,722.24	1,722.24	1,722.24	1,722.24
3260	Electro Magnetic Release Device or Electric Control	each	25,000.00	25,000.00	25,000.00	25,000.00
3261	Emergency / Evacuation Light	each	3,500.00	3,500.00	3,500.00	3,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3262	Exit Light	each	3,000.00	3,000.00	3,000.00	3,000.00
3263	Fire Brigade : 4 - Way	each	50,000.00	50,000.00	50,000.00	50,000.00
3264	Fire Brigade : 2 - Way	each	30,000.00	30,000.00	30,000.00	30,000.00
3265	Fire Hose with rack Assembly : 1½" dia	each	13,500.00	13,500.00	13,500.00	13,500.00
3266	Fire Hose with/without Rack : 2½" dia	each	19,000.00	19,000.00	19,000.00	19,000.00
3267	Fire Alarm Bell	each	3,500.00	3,500.00	3,500.00	3,500.00
3268	Fire ball	each	1,500.00	1,500.00	1,500.00	1,500.00
3269	Fire Blanket	each	1,150.00	1,150.00	1,150.00	1,150.00
3270	Fire Fighter Telephone Control Unit	each	120,000.00	120,000.00	120,000.00	120,000.00
3271	Fire Pump End Suction (500 GPM, 10 BAR) (Engine Driven)	each	2,915,100.00	2,915,100.00	2,915,100.00	2,915,100.00
3272	Fire Pump End Suction (500 GPM, 10 BAR) (Motor Driven)	each	1,935,000.00	1,935,000.00	1,935,000.00	1,935,000.00
3273	Fire Pump End Suction (500 GPM, 12 BAR) (Engine Driven)	each	3,271,500.00	3,271,500.00	3,271,500.00	3,271,500.00
3274	Fire Pump End Suction (500 GPM, 12 BAR) (Motor Driven)	each	2,115,000.00	2,115,000.00	2,115,000.00	2,115,000.00
3275	Fire Pump End Suction (500 GPM, 14 BAR) (Engine Driven)	each	3,303,900.00	3,303,900.00	3,303,900.00	3,303,900.00
3276	Fire Pump End Suction (500 GPM, 14 BAR) (Motor Driven)	each	2,290,500.00	2,290,500.00	2,290,500.00	2,290,500.00
3277	Fire Pump End Suction (500 GPM, 9 BAR) (Engine Driven)	each	2,664,000.00	2,664,000.00	2,664,000.00	2,664,000.00
3278	Fire Pump End Suction (500 GPM, 9 BAR) (Motor Driven)	each	1,665,000.00	1,665,000.00	1,665,000.00	1,665,000.00
3279	Fire Pump End Suction (750 GPM, 10 BAR) (Engine Driven)	each	3,295,800.00	3,295,800.00	3,295,800.00	3,295,800.00
3280	Fire Pump End Suction (750 GPM, 10 BAR) (Motor Driven)	each	2,025,000.00	2,025,000.00	2,025,000.00	2,025,000.00
3281	Fire Pump End Suction (750 GPM, 12 BAR) (Engine Driven)	each	3,344,400.00	3,344,400.00	3,344,400.00	3,344,400.00
3282	Fire Pump End Suction (750 GPM, 12 BAR) (Motor Driven)	each	2,196,000.00	2,196,000.00	2,196,000.00	2,196,000.00
3283	Fire Pump End Suction (750 GPM, 14 BAR) (Motor Driven)	each	2,475,000.00	2,475,000.00	2,475,000.00	2,475,000.00
3284	Fire Pump End Suction (750 GPM, 14 BAR) (Engine Driven)	each	3,469,950.00	3,469,950.00	3,469,950.00	3,469,950.00
3285	Fire Pump End Suction (750 GPM, 9 BAR) (Engine Driven)	each	3,255,300.00	3,255,300.00	3,255,300.00	3,255,300.00
3286	Fire Pump End Suction (750 GPM, 9 BAR) (Motor Driven)	each	1,755,000.00	1,755,000.00	1,755,000.00	1,755,000.00
3287	Fire Pump Split Case (1000 GPM, 10 BAR) (Engine Driven)	each	3,781,800.00	3,781,800.00	3,781,800.00	3,781,800.00
3288	Fire Pump Split Case (1000 GPM, 10 BAR) (Motor Driven)	each	2,295,000.00	2,295,000.00	2,295,000.00	2,295,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3289	Fire Pump Split Case (1000 GPM, 12 BAR) (Engine Driven)	each	3,806,100.00	3,806,100.00	3,806,100.00	3,806,100.00
3290	Fire Pump Split Case (1000 GPM, 12 BAR) (Motor Driven)	each	2,466,000.00	2,466,000.00	2,466,000.00	2,466,000.00
3291	Fire Pump Split Case (1000 GPM, 14 BAR) (Engine Driven)	each	3,915,000.00	3,915,000.00	3,915,000.00	3,915,000.00
3292	Fire Pump Split Case (1000 GPM, 14 BAR) (Motor Driven)	each	2,655,000.00	2,655,000.00	2,655,000.00	2,655,000.00
3293	Fire Pump Split Case (1000 GPM, 9 BAR) (Engine Driven)	each	3,364,002.00	3,364,002.00	3,364,002.00	3,364,002.00
3294	Fire Pump Split Case (1000 GPM, 9 BAR) (Motor Driven)	each	2,115,000.00	2,115,000.00	2,115,000.00	2,115,000.00
3295	Fire Pump Split Case (1250 GPM, 10 BAR) (Engine Driven)	each	3,822,300.00	3,822,300.00	3,822,300.00	3,822,300.00
3296	Fire Pump Split Case (1250 GPM, 10 BAR) (Motor Driven)	each	2,475,000.00	2,475,000.00	2,475,000.00	2,475,000.00
3297	Fire Pump Split Case (1250 GPM, 12 BAR) (Engine Driven)	each	4,279,950.00	4,279,950.00	4,279,950.00	4,279,950.00
3298	Fire Pump Split Case (1250 GPM, 12 BAR) (Motor Driven)	each	2,826,000.00	2,826,000.00	2,826,000.00	2,826,000.00
3299	Fire Pump Split Case (1250 GPM, 14 BAR) (Engine Driven)	each	4,494,600.00	4,494,600.00	4,494,600.00	4,494,600.00
3300	Fire Pump Split Case (1250 GPM, 14 BAR) (Motor Driven)	each	3,105,000.00	3,105,000.00	3,105,000.00	3,105,000.00
3301	Fire Pump Split Case (1250 GPM, 9 BAR) (Engine Driven)	each	3,781,800.00	3,781,800.00	3,781,800.00	3,781,800.00
3302	Fire Pump Split Case (1250 GPM, 9 BAR) (Motor Driven)	each	2,290,500.00	2,290,500.00	2,290,500.00	2,290,500.00
3303	Fire Rated Door	sqm	45,000.00	45,000.00	45,000.00	45,000.00
3304	Flexible Joint 150 mm (6 inch) dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3305	Flexible Joint 200 mm (8 inch) dia	each	28,000.00	28,000.00	28,000.00	28,000.00
3306	Flexible Joint 250 mm (10 inch) dia	each	37,000.00	37,000.00	37,000.00	37,000.00
3307	Flexible Joint 50 mm (2 inch) dia	each	8,000.00	8,000.00	8,000.00	8,000.00
3308	Flexible Joint 65 mm (2½ inch) dia	each	10,000.00	10,000.00	10,000.00	10,000.00
3309	Flow Meter	each	160,000.00	160,000.00	160,000.00	160,000.00
3310	Flow Switch 100 mm dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3311	Flow Switch 150 mm dia	each	21,000.00	21,000.00	21,000.00	21,000.00
3312	Flow Switch 200 mm dia	each	21,000.00	21,000.00	21,000.00	21,000.00
3313	Flow Switch 50 mm dia	each	12,000.00	12,000.00	12,000.00	12,000.00
3314	Flow Switch 65 mm dia	each	15,000.00	15,000.00	15,000.00	15,000.00
3315	Flow Switch 80 mm dia	each	15,000.00	15,000.00	15,000.00	15,000.00
3316	Foam	liter	175.00	175.00	175.00	175.00
3317	Foam Type 9 Liter capacity	each	3,061.00	3,755.00	3,060.00	3,060.00
3318	Foot Valve with strainer 150 mm (6 inch) dia	each	26,000.00	26,000.00	26,000.00	26,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3319	Foot Valve with strainer 200 mm (8 inch) dia	each	48,900.00	48,900.00	48,900.00	48,900.00
3320	Foot Valve with strainer 250 mm (10 inch) dia	each	70,000.00	70,000.00	70,000.00	70,000.00
3321	Foot Valve with strainer 40 mm (1½ inch) dia	each	10,000.00	10,000.00	10,000.00	10,000.00
3322	Foot Valve with strainer 50 mm (2 inch) dia	each	12,000.00	12,000.00	12,000.00	12,000.00
3323	Foot Valve with strainer 65 mm (2½ inch) dia	each	15,000.00	15,000.00	15,000.00	15,000.00
3324	Gas Cylinder with Clean Agent Gas 100 Liter capacity	each	800,000.00	800,000.00	800,000.00	800,000.00
3325	Gas Cylinder with Clean Agent Gas 120 Liter capacity	each	914,000.00	914,000.00	914,000.00	914,000.00
3326	Gas Cylinder with Clean Agent Gas 140 Liter capacity	each	1,030,000.00	1,030,000.00	1,030,000.00	1,030,000.00
3327	Gas Cylinder with Clean Agent Gas 20 Liter capacity	each	310,000.00	310,000.00	310,000.00	310,000.00
3328	Gas Cylinder with Clean Agent Gas 30 Liter capacity	each	330,000.00	330,000.00	330,000.00	330,000.00
3329	Gas Cylinder with Clean Agent Gas 50 Liter capacity	each	475,000.00	475,000.00	475,000.00	475,000.00
3330	Gas Cylinder with Clean Agent Gas 80 Liter capacity	each	640,000.00	640,000.00	640,000.00	640,000.00
3331	Gate Valve 100 mm (4 inch) dia	each	36,500.00	36,500.00	36,500.00	36,500.00
3332	Gate Valve 150 mm (6 inch) dia	each	48,500.00	48,500.00	48,500.00	48,500.00
3333	Gate Valve 200 mm (8 inch) dia	each	57,000.00	57,000.00	57,000.00	57,000.00
3334	Gate Valve 250 mm (10 inch) dia	each	75,000.00	75,000.00	75,000.00	75,000.00
3335	Gate Valve 50 mm (2 inch) dia	each	18,000.00	18,000.00	18,000.00	18,000.00
3336	Gate Valve 65 mm (2½ inch) dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3337	Gate Valve 80 mm (3 inch) dia	each	27,900.00	27,900.00	27,900.00	27,900.00
3338	Heat Detector (Conventional Type)	each	2,656.00	2,656.00	2,656.00	2,656.00
3339	Horn	each	3,500.00	3,500.00	3,500.00	3,500.00
3340	Horn Only (Addressable)	each	4,500.00	4,500.00	4,500.00	4,500.00
3341	Horn with Strobe (Addressable)	each	6,500.00	6,500.00	6,500.00	6,500.00
3342	Hose Angle Valve : 2½" dia	each	15,000.00	15,000.00	15,000.00	15,000.00
3343	Hose pipe	each	280.00	280.00	280.00	280.00
3344	Input (Addressable)	each	5,600.00	5,600.00	5,600.00	5,600.00
3345	Input Signal Module (Addressable)	each	6,000.00	6,000.00	6,000.00	6,000.00
3346	Interface Module (Addressable)	each	6,000.00	6,000.00	6,000.00	6,000.00
3347	Isolator Module (Addressable)	each	5,000.00	5,000.00	5,000.00	5,000.00
3348	Jet / spray Nozzle : 1½" dia	each	6,300.00	6,300.00	6,300.00	6,300.00
3349	Jet / Spray Nozzle : 2½" dia	each	9,600.00	9,600.00	9,600.00	9,600.00
3350	Jockey Pump (20 GPM, 10 Bar) (for 500 GPM Fire pump)	each	175,000.00	175,000.00	175,000.00	175,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3351	Jockey Pump (20 GPM, 12 Bar) (for 500 GPM Fire pump)	each	180,000.00	180,000.00	180,000.00	180,000.00
3352	Jockey Pump (20 GPM, 14 Bar) (for 500 GPM Fire pump)	each	235,000.00	235,000.00	235,000.00	235,000.00
3353	Jockey Pump (20 GPM, 9 Bar) (for 500 GPM Fire pump)	each	170,000.00	170,000.00	170,000.00	170,000.00
3354	Jockey Pump (30 GPM, 10 Bar) (for 750 GPM Fire pump)	each	190,000.00	190,000.00	190,000.00	190,000.00
3355	Jockey Pump (30 GPM, 12 Bar) (for 750 GPM Fire pump)	each	200,000.00	200,000.00	200,000.00	200,000.00
3356	Jockey Pump (30 GPM, 14 Bar) (for 750 GPM Fire pump)	each	250,000.00	250,000.00	250,000.00	250,000.00
3357	Jockey Pump (30 GPM, 9 Bar) (for 750 GPM Fire pump)	each	180,000.00	180,000.00	180,000.00	180,000.00
3358	Jockey Pump (40 GPM, 10 Bar) (for 1000 GPM Fire pump)	each	230,000.00	230,000.00	230,000.00	230,000.00
3359	Jockey Pump (40 GPM, 12 Bar) (for 1000 GPM Fire pump)	each	260,000.00	260,000.00	260,000.00	260,000.00
3360	Jockey Pump (40 GPM, 14 Bar) (for 1000 GPM Fire pump)	each	290,000.00	290,000.00	290,000.00	290,000.00
3361	Jockey Pump (40 GPM, 9 Bar) (for 1000 GPM Fire pump)	each	210,000.00	210,000.00	210,000.00	210,000.00
3362	Jockey Pump (50 GPM, 10 Bar)(for 1250 GPM Fire pump)	each	240,000.00	240,000.00	240,000.00	240,000.00
3363	Jockey Pump (50 GPM, 12 Bar)(for 1250 GPM Fire pump)	each	265,000.00	265,000.00	265,000.00	265,000.00
3364	Jockey Pump (50 GPM, 14 Bar)(for 1250 GPM Fire pump)	each	280,000.00	280,000.00	280,000.00	280,000.00
3365	Jockey Pump (50 GPM, 9 Bar)(for 1250 GPM Fire pump)	each	220,000.00	220,000.00	220,000.00	220,000.00
3366	Manifold Check Valve	each	15,500.00	15,500.00	15,500.00	15,500.00
3367	Manifold Supervisory Switch/ Monitor Supervisory Switch	each	12,000.00	12,000.00	12,000.00	12,000.00
3368	Manual Call Point	each	2,822.00	2,822.00	2,822.00	2,822.00
3369	Manual Release Switch	each	8,500.00	8,500.00	8,500.00	8,500.00
3370	Master Cylinder Adapter Kit	each	3,000.00	3,000.00	3,000.00	3,000.00
3371	Nipple with nozzle	each	110.00	110.00	110.00	110.00
3372	Nozzle 12.5 mm dia (1/2 Inch)360o	each	1,500.00	1,500.00	1,500.00	1,500.00
3373	Nozzle 19 mm dia (3/4 Inch)360o	each	1,800.00	1,800.00	1,800.00	1,800.00
3374	Nozzle 25 mm dia (1 Inch) 360o	each	2,500.00	2,500.00	2,500.00	2,500.00
3375	Nozzle 25 mm dia (1 Inch),180o	each	2,000.00	2,000.00	2,000.00	2,000.00
3376	Nozzle 32 mm dia (11/4 Inch)360o	each	2,800.00	2,800.00	2,800.00	2,800.00
3377	Nozzle 40 mm dia (11/2 Inch)360o	each	3,000.00	3,000.00	3,000.00	3,000.00
3378	Nozzle 50 mm dia (2 Inch) 180o	each	3,500.00	3,500.00	3,500.00	3,500.00
3379	Nozzle 50 mm dia (2 Inch) 360o	each	4,500.00	4,500.00	4,500.00	4,500.00
3380	Nozzle 80 mm dia (3 Inch) 360o	each	6,000.00	6,000.00	6,000.00	6,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3381	Outdoor hydrant box for pillar hydrant	each	12,000.00	12,000.00	12,000.00	12,000.00
3382	Pillar Hydrant: Double Headed	each	14,000.00	14,000.00	14,000.00	14,000.00
3383	Pilot Hose/ Flexible Actuation Hose	each	3,500.00	3,500.00	3,500.00	3,500.00
3384	Pneumatic Release Device / Pressure Operated Control Head	each	16,500.00	16,500.00	16,500.00	16,500.00
3385	Portable Telephone Handset for Fire	each	6,000.00	6,000.00	6,000.00	6,000.00
3386	Pressure Gauge	each	5,000.00	5,000.00	5,000.00	5,000.00
3387	Pressure Reducing Valve: 40mm dia	each	14,000.00	14,000.00	14,000.00	14,000.00
3388	Pressure Relief Valve, 100 mm (4 inch) dia	each	175,000.00	175,000.00	175,000.00	175,000.00
3389	Pressure Relief Valve, 150 mm (6 inch) dia	each	205,000.00	205,000.00	205,000.00	205,000.00
3390	Pressure Relief Valve, 80 mm (3.25 inch) dia	each	100,000.00	100,000.00	100,000.00	100,000.00
3391	Pressure Switch	each	15,000.00	15,000.00	15,000.00	15,000.00
3392	Pressurized Fan Capacity: 14000 cfm, ESP 100 Pa	each	280,000.00	280,000.00	280,000.00	280,000.00
3393	Pressurized Fan Capacity: 18000 cfm, ESP 100 Pa	each	360,000.00	360,000.00	360,000.00	360,000.00
3394	Pressurized Fan Capacity: 28000 cfm, ESP 100 Pa	each	560,000.00	560,000.00	560,000.00	560,000.00
3395	Programming, Testing & Commissioning of Fire Alarm System FACP for 151-250 addressable devices	each	100,000.00	98,200.00	91,400.00	91,400.00
3396	Programming, Testing & Commissioning of Fire Alarm System FACP for 1001-1500 addressable devices	each	231,000.00	226,842.00	211,134.00	211,134.00
3397	Programming, Testing & Commissioning of Fire Alarm System FACP for 1501-2000 addressable devices	each	253,000.00	248,446.00	231,242.00	231,242.00
3398	Programming, Testing & Commissioning of Fire Alarm System FACP for 251-500 addressable devices	each	150,000.00	147,300.00	137,100.00	137,100.00
3399	Programming, Testing & Commissioning of Fire Alarm System FACP for 501-750 addressable devices	each	187,000.00	183,634.00	170,918.00	170,918.00
3400	Programming, Testing & Commissioning of Fire Alarm System FACP for 751-1000 addressable devices	each	209,000.00	205,238.00	191,026.00	191,026.00
3401	Programming, Testing & Commissioning of Fire Alarm System FACP for up to 150 addressable devices	each	75,000.00	73,650.00	68,550.00	68,550.00
3402	Pump control panel for engine driven fire pump	each	315,000.00	315,000.00	315,000.00	315,000.00
3403	Relay (Addressable)	each	5,200.00	5,200.00	5,200.00	5,200.00
3404	Release control Panel 2 Zone	each	75,000.00	75,000.00	75,000.00	75,000.00
3405	Release control Panel 4 zone	each	100,000.00	100,000.00	100,000.00	100,000.00
3406	Remote Booster Power Supply	each	110,000.00	110,000.00	110,000.00	110,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3407	Repeater Panel / Remote Annunciator	each	100,000.00	100,000.00	100,000.00	100,000.00
3408	Resilient Swing Check Valves, 100 mm (4 inch) dia	each	35,000.00	35,000.00	35,000.00	35,000.00
3409	Resilient Swing Check Valves, 150 mm (6 inch) dia	each	42,000.00	42,000.00	42,000.00	42,000.00
3410	Resilient Swing Check Valves, 200 mm (8 inch) dia	each	57,500.00	57,500.00	57,500.00	57,500.00
3411	Resilient Swing Check Valves, 250 mm (10 inch) dia	each	80,000.00	80,000.00	80,000.00	80,000.00
3412	Resilient Swing Check Valves, 50 mm (2 inch) dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3413	Resilient Swing Check Valves, 65 mm (2½ inch) dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3414	Signaling Cable with PVC conduit & Accessories 2 x 1.5 mm2	m	195.00	195.00	195.00	195.00
3415	Signaling Cable with PVC conduit & Accessories 2 x 2.5 mm2	m	255.00	255.00	255.00	255.00
3416	Smoke Detector (Conventional Type)	each	2,656.00	2,656.00	2,656.00	2,656.00
3417	Sprinkler 4" alarm check valve	each	35,000.00	35,000.00	35,000.00	35,000.00
3418	Sprinkler 4" Pressure Reducing Valve	each	120,000.00	120,000.00	120,000.00	120,000.00
3419	Sprinkler 6" alarm check valve	each	100,000.00	100,000.00	100,000.00	100,000.00
3420	Sprinkler 6" Pressure Reducing Valve	each	165,000.00	165,000.00	165,000.00	165,000.00
3421	Sprinkler 8" alarm check valve	each	140,000.00	140,000.00	140,000.00	140,000.00
3422	Sprinkler 8" Pressure Reducing Valve	each	220,000.00	220,000.00	220,000.00	220,000.00
3423	Sprinkler Head Pendent type (with escutcheon / rochette plate)	each	1,700.00	1,700.00	1,700.00	1,700.00
3424	Sprinkler Head Side wall type (with escutcheon / rochette plate)	each	1,900.00	1,900.00	1,900.00	1,900.00
3425	Sprinkler Head Up-right type	each	1,550.00	1,550.00	1,550.00	1,550.00
3426	SS Pipe for Sensing line 12 mm (1/2 inch) dia	m	984.00	984.00	984.00	984.00
3427	SS Pipe for Sensing line 20 mm (3/4 inch) dia	m	1,262.80	1,262.80	1,262.80	1,262.80
3428	Strobe / Horn with Strobe		4,000.00	4,000.00	4,000.00	4,000.00
3429	Strobe Only (Addressable)	each	5,000.00	5,000.00	5,000.00	5,000.00
3430	Telephone Jack for Fire	each	3,000.00	3,000.00	3,000.00	3,000.00
3431	Temper Switch for OS&Y Gate Valve	each	15,000.00	15,000.00	15,000.00	15,000.00
3432	Trigger	each	150.00	150.00	150.00	150.00
3433	Twin Flashing Light	each	7,000.00	7,000.00	7,000.00	7,000.00
3434	Waste Cone 100 x 150 mm (4 x 6 inch) dia	each	48,000.00	48,000.00	48,000.00	48,000.00
3435	Waste Cone 150 x 200 mm (6 x 8 inch) dia	each	70,000.00	70,000.00	70,000.00	70,000.00
3436	Waste Cone 200 x 300 mm (8 x 10 inch) dia	each	95,000.00	95,000.00	95,000.00	95,000.00
3437	Y-Strainers 150 mm (6 inch) dia	each	40,000.00	40,000.00	40,000.00	40,000.00
3438	Y-Strainers 200 mm (8 inch) dia	each	48,900.00	48,900.00	48,900.00	48,900.00
3439	Y-Strainers 250 mm (10 inch) dia	each	75,000.00	75,000.00	75,000.00	75,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3440	Y-Strainers 50 mm (2 inch) dia	each	20,000.00	20,000.00	20,000.00	20,000.00
3441	Y-Strainers 65 mm (2½ inch) dia	each	20,500.00	20,500.00	20,500.00	20,500.00
	Laboratory Test Fee					
	A. Cement					
3442	Normal Consistency	Each	300.00	300.00	300.00	300.00
3443	Setting Time	Each	700.00	700.00	700.00	700.00
3444	Compressive Strength (3,7,28 days) (Each days Set comprises with 3 cubes)	Set	1,200.00	1,200.00	1,200.00	1,200.00
3445	Fineness by Sieve	Each	500.00	500.00	500.00	500.00
3446	Fineness (Blaine Air)	Each	2,000.00	2,000.00	2,000.00	2,000.00
	B. Aggregate					
3447	Sieve analysis of Coarse Aggregate	Each	400.00	400.00	400.00	400.00
3448	Sieve analysis of Fine Aggregate	Each	400.00	400.00	400.00	400.00
3449	Materials Finer than Sieve no. 200 by Washing	Each	400.00	400.00	400.00	400.00
3450	Unit weight	Each	400.00	400.00	400.00	400.00
3451	Absorption of Coarse Aggregate	Each	300.00	300.00	300.00	300.00
3452	Sp Gravity	Each	600.00	600.00	600.00	600.00
3453	Los Angles Abrasion	Each	1,000.00	1,000.00	1,000.00	1,000.00
3454	Ten Percent Fines value (TFV)	Each	1,800.00	1,800.00	1,800.00	1,800.00
3455	Aggregate Crushing Value	Each	900.00	900.00	900.00	900.00
3456	Aggregate Impact Value	Each	600.00	600.00	600.00	600.00
3457	CBR of Coarse Aggregate (Excluding MDD)	Each	8,000.00	8,000.00	8,000.00	8,000.00
3458	CBR of Fine Aggregate (Excluding MDD)	Each	7,000.00	7,000.00	7,000.00	7,000.00
3459	DCP Test	Each	200.00	200.00	200.00	200.00
3460	Standard Proctor Test	Each	1,500.00	1,500.00	1,500.00	1,500.00
3461	Modified Proctor Test	Each	1,800.00	1,800.00	1,800.00	1,800.00
3462	Field Density by Sand Cone Method	Each	800.00	800.00	800.00	800.00
3463	Field Density by Core-Cutter Method	Each	400.00	400.00	400.00	400.00
3464	Voids Ratio	Each	300.00	300.00	300.00	300.00
3465	Soundness of Aggregate	Each	2,000.00	2,000.00	2,000.00	2,000.00
3466	Elongation Index (EI)	Each	300.00	300.00	300.00	300.00
3467	Flakiness Index (FI)	Each	200.00	200.00	200.00	200.00
3468	Moisture Content	Each	100.00	100.00	100.00	100.00
	C. Brick					
3469	Compressive Strength (5 Nos)	Set	1,400.00	1,400.00	1,400.00	1,400.00
3470	Water Absorption (6 Nos)	Set	1,000.00	1,000.00	1,000.00	1,000.00
3471	Size & Shape (24Nos)	Set	300.00	300.00	300.00	300.00
3472	Weight (5Nos)	Set	200.00	200.00	200.00	200.00
3473	Efflorescence (10 Nos)	Set	300.00	300.00	300.00	300.00
	D. Uniblock/Paving Block					
3474	Compressive Strength (3 Specimen)	Set	2,500.00	2,500.00	2,500.00	2,500.00
3475	Unit weight (3 Specimen)	Set	1,500.00	1,500.00	1,500.00	1,500.00
3476	Water Absorption (3 Specimen)	Set	1,000.00	1,000.00	1,000.00	1,000.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
	E. Admixture					
3477	Specific Gravity	Each	1,000.00	1,000.00	1,000.00	1,000.00
3478	Dry Residue	Each	1,000.00	1,000.00	1,000.00	1,000.00
3479	Concrete Strength	Each	10,000.00	10,000.00	10,000.00	10,000.00
	F. Bentonite/Drilling Slurry					
3480	Liquid Limit	Each	1,000.00	1,000.00	1,000.00	1,000.00
3481	Time Viscosity	Each	500.00	500.00	500.00	500.00
3482	Mixing Ratio (in/c. Viscosity & Sp. Gravity)	Each	2,000.00	2,000.00	2,000.00	2,000.00
3483	Sand Content	Each	500.00	500.00	500.00	500.00
	G. Concrete					
3484	Compressive Strength Cylinder (Each set comprises with 3 specimen)	Set	600.00	600.00	600.00	600.00
3485	Compressive Strength of Cube (Each set comprises with 3 specimen)	Set	400.00	400.00	400.00	400.00
3486	Concrete Cylinder Casting & Testing (Each set comprises with 3 specimen)	Set	700.00	700.00	700.00	700.00
3487	Concrete Cube Casting & Testing (Each set comprises with 3 specimen)	Set	600.00	600.00	600.00	600.00
3488	Slump test	Each	150.00	150.00	150.00	150.00
3489	Design of Concrete Mixes	Each	10,000.00	10,000.00	10,000.00	10,000.00
3490	Impact of Hammer Test	Each	1,000.00	1,000.00	1,000.00	1,000.00
	Core Cutter					
3491	i) Cutting & Testing	Each	5,000.00	5,000.00	5,000.00	5,000.00
3492	ii) Transportation TK.500/day+	km	15.00	15.00	15.00	15.00
	H. Bitumen					
3493	Softening Point (R& B)	Each	1,000.00	1,000.00	1,000.00	1,000.00
3494	Specific Gravity	Each	1,000.00	1,000.00	1,000.00	1,000.00
3495	Flash & fire point	Each	1,000.00	1,000.00	1,000.00	1,000.00
3496	Loss-on-heating test	Each	1,000.00	1,000.00	1,000.00	1,000.00
3497	Standard Penetration	Each	1,000.00	1,000.00	1,000.00	1,000.00
3498	Ductility	Each	3,000.00	3,000.00	3,000.00	3,000.00
3499	Job Mix Design (Marshal Method) including maximum specific gravity of mix	Each	60,000.00	60,000.00	60,000.00	60,000.00
	Core cutter					
3500	i) Cutting	Each	2,000.00	2,000.00	2,000.00	2,000.00
3501	ii) Transportation Tk. 500/day+	km	15.00	15.00	15.00	15.00
	Bituminous material Test					
3502	i) Sample Preparation (Each set comprises with 3 specimen.)	Set	5,000.00	5,000.00	5,000.00	5,000.00
3503	ii) Stability & Flow	Set	3,000.00	3,000.00	3,000.00	3,000.00
3504	iii) Asphalt Mix Design	Each	6,000.00	6,000.00	6,000.00	6,000.00
3505	Bitumen Extraction	Each	1,500.00	1,500.00	1,500.00	1,500.00
	I. Soil					
3506	Sand equivalent test	Each	2,500.00	2,500.00	2,500.00	2,500.00

SL No	Items	Unit	Unit Rate (BDT)			
			Zone-A (Dhaka, Mymensingh)	Zone-B (Chattogram, Sylhet)	Zone-C (Rajshahi, Rangpur)	Zone-D (Khulna, Barishal)
3507	Consolidation test	Each	3,000.00	3,000.00	3,000.00	3,000.00
3508	Field Vane Shear Test for cohesive Soil	Each	1,500.00	1,500.00	1,500.00	1,500.00
	Direct Shear test					
3509	i) Unconsolidated Untrained	Each	1,500.00	1,500.00	1,500.00	1,500.00
3510	ii) Consolidated Untrained	Each	1,600.00	1,600.00	1,600.00	1,600.00
3511	iii) Consolidated Drained	Each	2,500.00	2,500.00	2,500.00	2,500.00
	Triaxial Shear Test					
3512	I) Unconsolidated Undrained	Each	1,500.00	1,500.00	1,500.00	1,500.00
3513	ii) Consolidated Undrained	Each	2,500.00	2,500.00	2,500.00	2,500.00
3514	iii) Consolidated Undrained without pore pressure	Each	1,500.00	1,500.00	1,500.00	1,500.00
3515	iv) Consolidated Drained	Each	3,500.00	3,500.00	3,500.00	3,500.00
	Permeability					
3516	i) Cohesive	Each	2,000.00	2,000.00	2,000.00	2,000.00
3517	i) Non -Cohesive	Each	1,000.00	1,000.00	1,000.00	1,000.00
	J. Reinforcement					
3518	Tensile Strength (Bar dia up to 19mm)	Set	1,000.00	1,000.00	1,000.00	1,000.00
3519	Tensile Strength (Bar dia > 19mm - 40mm)	Set	1,200.00	1,200.00	1,200.00	1,200.00
3520	Bend (Bar dia up to 19mm)	Set	200.00	200.00	200.00	200.00
3521	Bend (Bar dia > 19mm - 40mm)	Set	300.00	300.00	300.00	300.00
	K. Miscellaneous					
3521	Calibration of Hydraulic Jack without Pressure Gauge	Each	10,000.00	10,000.00	10,000.00	10,000.00
3522	Calibration of Deflection dial	Each	1,000.00	1,000.00	1,000.00	1,000.00
3523	Calibration of Compression Testing Machine	Each	5,000.00	5,000.00	5,000.00	5,000.00
3524	Calibration of Proving Ring	Each	3,000.00	3,000.00	3,000.00	3,000.00
	Bearing Pad					
3525	I) Hardness	Each	1,500.00	1,500.00	1,500.00	1,500.00
3526	ii) Compression Set	Each	4,000.00	4,000.00	4,000.00	4,000.00
3527	iii) Ash Content	Each	2,500.00	2,500.00	2,500.00	2,500.00
3528	iv) Short Duration Compression	Each	3,500.00	3,500.00	3,500.00	3,500.00
3529	v) Long Duration Compression	Each	7,000.00	7,000.00	7,000.00	7,000.00
3530	vi) Vulcanized Bond test(ASTM D-429) Method-B	Each	4,000.00	4,000.00	4,000.00	4,000.00
3531	vii) Test of shear Modulus(ASTM D-4014)	Each	4,000.00	4,000.00	4,000.00	4,000.00
3532	viii) No. and Thickness of Elastomer layer and steel plate	Each	1,500.00	1,500.00	1,500.00	1,500.00

Test fee deductable from contrator's bill as applicable.

Appendix-2

SPECIAL NOTE: ADDED RATE FOR INACCESSIBLE AREAS

Category	Upazilla/area	District	Added % rate
A (Accessibility with moderate difficulty)	Lama	Bandarban	5%
	AliKadam		
	Naikhyongchari		
B (Accessibility with high difficulty)	Rowangchari	Bandarban	10%
	Ruma		
	Thanchi		
	Barkal	Rangamati	
	Juraichari		
	Belaichari		
	Langadu		
	Baghaichari		
	Hatiya	Noakhali	
	Moheskhali	Cox's Bazar	
	Kutubdia		
	Sandwip	Chattogram	
C (Accessibility with extreme difficulty)	Saint Martin's Island (Teknaf Upazilla)	Cox's Bazar	15%

Aggregate Grading

Aggregate Grading for Sub-Base & Base Course

Sieve Size (mm)	% Passing By Weight	
	Grading for Sub-Base Course	Grading for Base Course
50 mm	100	100
37.5 mm	100	95-100
19 mm	55-95	60-80
9.5 mm	35-75	40-60
4.75 mm	25-60	25-45
2.36 mm	15-50	15-30
0.600 mm	10-35	8-22
0.300 mm	10-25	-
0.075 mm	5-15	0-5

Grading Requirements for Composition of the Mixture of Asphalt Base Course in Heavy Traffic Area (IRC)

Sieve Size (mm)	% Passing by Weight of Total Aggregate	
	Layer Thickness (75mm-100mm)	Layer Thickness (50mm-75mm)
50 mm	100	100
37.5 mm	90-100	100
25 mm	75-95	100
19.5 mm	-	90-100
12.5 mm	35-61	56-88
9.5 mm	-	-
4.75 mm	13-22	16-36
2.36 mm	4-19	4-19
0.300 mm	2-10	2-12
0.075 mm	0-8	0-8

Aggregate Grading Requirement for Bituminous Wearing Course

Sieve Size (mm)	% Passing by Weight of Total Aggregate			
	For 25mm Dense	For 40mm Dense	For 50/40mm Normal BC	For 25mm Normal BC
25 mm	100	95-100	95-100	-
19.5 mm	100	85-95	85-95	100
16 mm	100	-	-	-
12.5 mm	75-90	60-80	58-77	75-90
9.5 mm	60-80	53-73	45-65	50-70
4.75 mm	35-55	35-52	25-40	25-40
2.36 mm	25-40	23-38	15-30	15-27
0.600 mm	15-25	13-24	8-18	8-18
0.075 mm	4-10	4-10	2-8	2-8

Aggregate Grading for Bituminous Seal Coat (SC)

Sieve Size (mm)	% Passing by Weight of Total Aggregate	
	For 7mm Seal Coat	For 12mm Surfacing Course
12.5mm	-	100
9.50 mm	-	95-100
6.3 mm	100	85-95
4.75 mm	80-100	65-85
2.36 mm	70-95	35-55
0.600 mm	20-50	15-25
0.075 mm	5-15	3-10

Coarse Aggregate Grading for Concrete

Sieve Size (mm)	% Passing by Weight
25 mm	100
19.5 mm	90-100
9.5 mm	20-55
4.75 mm	0-10
2.36 mm	0-5

Sand shall be well graded from coarse to fine within the limits given below or shall conform to the specified Fineness Modulus **(FM)**.

Fine Aggregate Grading for Concrete

Sieve Size (mm)	% Passing by Weight
9.5 mm	100
4.75 mm	95-100
2.36 mm	80-100
1.18 mm	50-85
0.600 mm	25-60
0.300 mm	5-30
0.150 mm	0-10

Laboratory Test Frequency, LGED

Sl No.	Item of Works	Name of test	Test Frequency (No. Per or Part)
1	Embankment	i) Plasticity Index (PI)	One 2,000 m^3
		ii) 4 day soaked CBR	One 2,000 m^3
		iii) MDD (Standard)	One 2,000 m^3
		iv) FDD	One 600 m^3
		v) DCP	One 200 m^3
2	Sub grade	i) Plasticity Index (PI)	One 5,000 m^2
		ii) 4 day soaked CBR	One 5,000 m^2
		iii) MDD	One 5,000 m^2
		iv) FDD	One 900 m^2
		v) DCP	One 300 m^2
3	Improved Sub grade	i) FM / Gradation	One 500 m^3
		ii) 4 day soaked CBR	One 1,000 m^3
		iii) MDD	One 1,000 m^3
		iv) FDD	One 300 m^3
		v) DCP	One 100 m^3
4	Sub-base	i) Gradation	One 500 m^3
		ii) 4 day soaked CBR	One 750 m^3
		iii) LAA	One 1,000 m^3
		iv) MDD	One 750 m^3
		v) FDD	One 150 m^3
		vi) W/A (Stone/Brick)	One 500 m^3
		vii) DCP	One 50 m^3
5	Base Course	i) Gradation	One 500 m^3
		ii) 4 day soaked CBR	One 750 m^3
		iii) MDD	One 750 m^3
		iv) FDD	One 150 m^3
		v) LAA	One 1,000 m^3
		vi) W/A (Stone/Brick)	One 500 m^3
		vii) DCP	One 50 m^3
6	Brick on End Edging	i) Compressive Strength	Set 1,000 m
		ii) Water Absorption	Set 1,000 m

Appendix-4

Sl No.	Item of Works	Name of test	Test Frequency (No. Per or Part)
7	HBB	i) Compressive Strength	Set 2,000 m^2
		ii) Water Absorption	Set 2,000 m^2
8	Bituminous Materials	i) Softening Point	One 10,000 m^2
		ii) Flash Point	One 10,000 m^2
		iii) Penetration	One 7,500 m^2
		iv) Gradation of FA	One 5,000 m^2
		v) Gradation of CA	One 5,000 m^2
		vi) WA of CA	One 5,000 m^2
		vii) LAA	One 5,000 m^2
		viii) Flakiness Index	One 5,000 m^2
		ix) Job Mix Design (Marshall Method)	One for more than 240 m^3 up to 5 km.
9	Concrete	i) FM	One 50 m^3
		ii) W/A (Coarse Aggregate)	One 50 m^3
		iii) LAA /ACV	One 50 m^3
		iv) Gradation of CA	One 50 m^3
		v) Setting Time of Cement	One 50 m^3
		vi) CS of Cement (3,7,28 days)	One 50 m^3
		vii) CS of Concrete	One 50 m^3
10	Brick Works	i) Compressive Strength of Bricks	Set 300 m^3
		ii) Water Absorption of Bricks	Set 300 m^3
		iii) Efflorescence of Bricks	Set 300 m^3
		iv) Setting Time of Cement	Set 300 m^3
		v) CS of Cement	Set 300 m^3
		vi) FM of Sand	Set 300 m^3
11	Reinforcement	Unit weight, Elongation & Tensile Strength	1set / Dia / 10,000 Kg

** If the number of test(s) to be performed as per specified test-frequency for any item becomes a whole number with a fraction equal to 0.20 or less, in that case the actual number of test (s) shall be the whole number only. On the other hand if the fraction is more than 0.20 then the actual number of test(s) for that item shall be rounded to next whole number. Engineer in-charge has the right to increase the no. of tests for any item beyond the set frequency as he deems required to ensure the quality and contractor is to perform the additional tests on his own.

** Implementation of various items of work should be carried out according to the set frequency and costs of all tests even additional to the frequency requirement should be covered by the quoted rate.

CONVERSION TABLE

FPS AND METRIC SYSTEM

(TABLE-1 to TABLE-3)

TABLE-1

FPS	METRIC	METRIC	FPS
1 inch	25.40 mm = 2.54 cm	1 mm	0.03937 inch
1 feet	30.48 cm = 0.3048 m	1 meter	3.281 ft
1 mile	1.609 km	1 km	0.6214 mile
1 gallon (UK)	4.546 liter	1 liter	0.22 gallon
1 pound	0.4536 kg	1 kg.	2.2051b
1 seer	0.9331 kg	1 kg	1.072 seer
1 mound	37.324 kg	1 kg	85.74 talas
1 ton	1.016 tonne	1 tonne	0.984 ton = 1000 kg.
1 cwt.	0.508 quintal	1 quintal	1.969 cwt
1 in^2	6.452 cm^2	1 cm^2	0.155 in^2
1 ft^2	0.093 m^2	1 m^2	10.764 ft^2

TABLE-2

	CONVERSION FACTOR			CONVERSION FACTOR			Remarks
	British (FPS)	**Metric**	**SI**	**SI**	**Metric**	**British (FPS)**	
Mass	1 gr.	0.0648 gm	0.0648 gm	1 gm	1 gm	15.432 gm	1 Ib = 0.486 seer 1 kg = 1.072 seer = 85.74 tolas
	1 oz (avoir)	28.349 gm	28.349 gm	1 gm	1 gm	0.0353 oz	
	1 Ib (avoiri	0.4536 ka	0.4536 ka	1 ka	1 ka	2.205 lbs	
Cone. load/force, mass, weight	1 lb	0.4536 kg	4.4482 N	1 N	0.102 kg	0.2248 lb	1 kg = 2.2046 Ib = 9.807 N 1 tonne = 10 quintal = 1000 kg = 26.7923 mound 1 kg = 0.01968 cwt 1 ton = 2200 Ib = 907.2 ka.
	1 kip	453.6 kg	4.4482 kN	1 kN	101.96 kg	224.81 Ib	
	1 ton	1.016 tonne (1016 kg)	9.964 kN	1 kN	101.96 kg	2.007 cwt	
	1 cwt	50.80 kg	0.4982 kN				
Linear loads (load per unit length)	1lb/in	0.01786kg/mm	*0.17512N/mm*	1 *N/mm*	0.102 kg/mm	5.71 Ib/in	1 kg/m = 9.80 *N/m*
	1 l*b/ft*	1.488 kg/m	0.0146 kN/m	1 kN/m	101.96 kg/m	*68.52 Ib/ft.*	= 0.672 *Ib/ft*
	1 kip/ft	*1488.19 kg/m*	14.5939 kN/m	1 *kN/m*	*0.102 ton/m*	*0.031 ton/ft*	
	1 ton/ft	*3.333 tonne/m*	32.69 kN/m				
Surface loads (load per unit area)	1 Ib/in^2	0.0703 kg/cm^2	6.895 kN/m^2	1 *mN/m* ^{2}	10.15 kg/m^2	145.038lb/in^2	1 kg Ie m^2 = 14.223lb/ft^2
	1 *Ib/ft* ^{2}	4.883 kg/m^2	47.8803 kN/m2	1 *kN/m* ^{2}	101.92kg/m^2	20.885 Ib/ft^2	1 kg/cm^2 = 1 atom
	1 kip/ft^2	4883 kg/m^2	*47.8803kN/m* ^{2}	1 *kN/m* ^{2}	*0.102 ton/*m^2	*0.00933 ton/ft* ^{2}	1 kg/m^2 = 0.205 *Ib/ft* ^{2}
	1 *ton/ft* ^{2}	10.937 ton*/m* ^{2}	107.14 kN/m^2				
Density (unit weight)	1 lb/in^3	0.0000277 kg/mm^3	0.00027N/mm^3	1 *N/mm* ^{3}	0.1021kg/mm^3	3703.70 Ib/in^3	1 kg/m^3 = 0.0624 Ibltt'
	1 *Ib/tt* ^{3}	16.02 kg/m^3	*0.1572 kN/m* ^{3}	1 kN/m^3	101.92 kg/m^3	*6.361 Ib/ft* ^{3}	
	1 *ton/ft* ^{3}	*35.90 ton/m* ^{3}	*352.08 kN/m* ^{3}	1 *kN/m* ^{3}	*0.102 tonne/m* ^{3}	*0.0028 ton/ft* ^{3}	
Stress, modulus of elasticity, pressure	1 lb/in^2	0.703 kg/cm^2	6.895 kPa	1 mPa	10.15 kg/cm^2	145.038lb/in^2	MPa = MN/m^2 = *N/mm* ^{2} = *1000 kN/m* ^{2}
	1 kip/in^2	70.3078kg/cm^2	6.895 mPa	1 kPa	101.92 kg/m2	*20.885 Ib/ft* ^{2}	1 Pa = *1N/m* ^{2}
	1 Ib/ft^2	4.883 kg/m^2	47.8803 Pa				1 kN = 224.809 Ibs
							1 kg/cm^2 = 14.223 Ib/in^2
							1 ft. of water = 2.989 kPa
Moment/ Torque	l lb-in	11.5214 kg-mm	112.98 N-mm	1 N-mm	0.102 kg-mm	0.0088 Ib-in	
	1 Ib-ft	0.1383 kg-m	1.3558 N-m	1 N-m	0.102 kg-m	0.738 Ib-ft	
	1 kip-ft	138.3 kg	1.3558 kN-m	1 kN-m	0.102 tonne-m	0.3293 ton-ft	
	1 ton-ft	0.31 tonne-m	3.037 kN-m				
Velocity/ Speed	1 ft/sec	0.3048 m/see	0.3048 m/sec	1 m/sec	1 m/sec	3.281 ft/sec	
	1 mile/sec	1 .609 km/sec	1.609 km/sec	1 km/sec	1 km/sec	0.6214 mi/hr	
	1 mile/hr	4.470 m/sec	4.470 m/sec				
Acceleration	1 ft/sec^2	0.3048m/sec^2	1 m/sec^2	1 m/sec^2	3.281 ft/sec^2		
Temperature	1 degree Fahrenheit (^{0}F) = *(t^o -32)/l.8* degree Celsius (^{0}C)						

TABLE-3

	CONVERSION FACTOR			CONVERSION FACTOR			Remarks
	British (FPS)	**Metric**	**SI**	**SI**	**Metric**	**British (FPS)**	
Length	1 in	24.4 mm	24.4 mm	1 mm	1 mm	0,0937 in	1 in = 2,54 cm
	1 ft.	0,3048 m	0.3048 m	1 em	.1 cm	0.3937 in	
	1 yd	0.9144 m	0.9144 m	1m	1m	3.281 ft.	
	1 mile	1.609 km	1.609 km	1 km	1 km	0.6214 mi	
	1 mile (nautical)	1.852 km	1.852 km	1 km	1 km	0.5399 mile (nautical)	
Area	1 in^2	6.452 cm^2	6.452 cm^2	1 cm^2	1 cm^2	0.155 in^2	1 in^2 = 645.2 mm^2 1 acre = 43561ft^2= 4047 m^2 1 km^2= 247.105 acres 1 hectre = 10000 m^2
	1 ft^2	0.0929 m^2	0.0929 m^2	1 m^2	1 m^2	10.764 ft^2	
	1 yd^2	0.8361 m^2	0.8361 m^2	1 m^2	1 m^2	1.196 yd^2	
	1 mi^2	2.59 km^2	2.59 km^2	1 km^2	1 km^2	0.3861 mi^2	
	$acre^2$	0.4047 ha	0.4047 ha	1 ha	1 ha	2.471 acre	
Volume	1 in^3	16.387 cm^3	16.387 cm^3	1 cm^3	1 cm^3	0.061 in^3	1 ft^3 = 6.23901 gal = 28.316 liters 1 bushel = 36.37 liters
	1 ft^3	0.02832 m^3	0.02832 m^3	1 m^3	1 m^3	35.315 ft^3	
	1 yd^3	0.7648 m^3	0.7648 m^3	1 m^3	1 m^3	1.308 yd^3	
	1 gal (UK)	4.546 liters	4.546 liters	1 liter	1 liter	0.22 gal (UK)	
	1 gal (US)	3.7854 liters	3.7854 liters	1 liter	1 liter	0.264 gal (US)	
Moment of Inertia	1 in^4	41.623 cm^4	41.623 cm^4	1 cm^4	1 cm^4	0.024 in^4	
	1 ft^4	0.008631 m^4	0.008631 m^4	1 m^4	1 m^4	115.86 ft^4	
Power, Work, Energy, Quantity of heat	1 hp	0.7457 kw	0.7457 kw	1 kw	1 kw	1.341 hp	1 J = 1 Nm 1 hp = 1.01387 metric hp = 1550 ft-Ib/sec 1 W = 1 *J/sec*
	1 Btu	1.055 kilo joules	1.055 kilo joules	1 kj	1 kj	0.9478 Btu	
				1 kcl	1 kcl	3.9651 Btu	

CROSS-SECTIONAL AREA AND MASS OF ROUND BAR[1]

TABLE-4

Nominal Size (dia in mm)	Bar No.	Cross-sectional area in mm^2	Perimeter in mm	Mass per running meter in kg	Length per 100 kg in meter
4		12.6	12.7	0.099	1010.1
5		19.6	15.71	0.154	644.35
6	#2	28.3	18.85	0.222	450.45
7		38.5	21.99	0.302	331.12
8		50.3	25.13	0.395	253.16
10	#3	78.5	31.42	0.616	162.34
12	#4	113	37.7	0.888	112.61
16	#5	201	50.27	1.579	63.33
20	#6	314	62.83	2.466	40.55
22	#7	380	69.11	2.98	33.56
25	#8	491	78.54	3.854	25.95
28	#9	616	87.96	4.83	20.7
32	#10	804	100.53	6.313	15.8
40		1257	125.66	9.864	10.14

[1] BDS 1313:1991

WIRE AND SHEET METAL GAGES IN DECIMALS OF AN INCH

TABLE-5

Name of Gage	United States Standard Gage		United States Steel Wire Gage	American or Brown & Sharpe Wire Gage	New Birmingham Standard Sheet & Hoop Gage	British Imperial or English Legal Standard Wire Gage (SWG)	Birmingham or Stub Iron Wire Gage (BWG)
Principle Use	Uncoated Steel Sheets and Light Plates		Steel Wire except Music Wire	Non-Ferrous Sheets and Wire	Iron and Steel Sheets and Hoops	Wire	Strips, Bands, Hoops and Wire
Gage No.	Weight oz. per sq. ft.	Approximate thickness Inch	Thickness in Inch				
7/0's			0.496		0.6666	0.5	
6/0'5			0.4615	0.58	0.625	0.464	
5/0'5			0.4305	0.5165	0.5883	0.432	0.5
4/0'5			0.3938	0.46	0.5416	0.4	0.454
3/0'5			0.3625	0.4096	0.5	0.372	0.425
2/0's			0.331	.0.3648	0.4452	0.348	0.38
0			0.3065	0.3249	0.3964	0.324	0.34
1			0.283	0.2893	0.3532	0.3	0.3
2			0.2625	0.2576	0.3147	0.276	0.284
3	160	0.2391	0.2437	0.2294	0.2804	0.252	0.259
4	150	0.2242	0.2253	0.2043	0.25	0.232	0.238
5	140	0.2092	0.207	0.1819	0.2225	0.212	0.22
6	130	0.1943	0.192	0.162	0.1981	0.192	0.203
7	120	0.1793	0.177	0.1443	0.1764	0.176	0.18
8	110	0.1644	0.162	0.1285	0.157	0.16	0.165
9	100	0.1495	0.1483	0.1144	0.1398	0.144	0.148
10	90	0.1345	0.135	0.1019	0.125	0.128	0.134
11	80	0.1196	0.1205	0.0907	0.113	0.116	0.12
12	70	0.1046	0.1055	0.0808	0.0991	0.104	0.109
13	60	0.0897	0.0915	0.072	0.0882	0.092	0.095
14	50	0.0747	0.08	0.0641	0.0785	0.08	0.083
15	45	0.0673	0.072	0.0571	0.0699	0.072	0.072
16	40	0.0598	0.0625	0.0508	0.0626	0.064	0.065
17	36	0.0538	0.054	0.0453	0.0556	0.056	0.058
18	32	0.0478	0.0475	0.0403	0.0495	0.048	0.049
19	28	0.0418	0.041	0.0359	0.044	0.04	0.042
20	24	0.0359	0.0348	0.032	0.0392	0.036	0.035
21	22	0.0329	0.0318	0.0285	0.0349	0.032	0.032
22	20	0.0299	0.0286	0.0253	0.0313	0.028	0.028
23	18	0.0269	0.0258	0.0226	0.0278	0.024	0.025
24	16	0.0239	0.023	0.0201 .	0.0248	0.022	0.022
25	14	0.0209	0.0204	0.0179	0.022	0.02	0.02
26	12	0.0179	0.0181	0.0159	0.0196	0.018	0.018
27	11	0.0164	0.0173	0.0142	0.0175	0.0164	0.016
28	10	0.0149	0.0162	0.0126	0.0156	0.048	0.D14
29	9	0.0135	0.015	0.0113	0.0139	0.036	0.D13
30	8	0.012	0.014	0.01	0.0123	0.024	0.012
31	7	0.0105	0.0132	0.0089 .	0.011	0.0116	0.01
32	6.5	0.0097	0.p128	0.008	0.0098	0.0108	0.009
33	6	0.009	0.0118	0.0071	0.0087	0.01	0.008
34	5.5	0.0082	0.0104	0.0063	0.0077	0.0092	0.007
35	5	0.0075	0.0095	0.0056	0.0069	0.0084	0.005
36	4.5	0.0067	0.009	0.005	0.0061	0.0076	0.004
37	4.25	0.0064	0.0085	0.0045	0.0054	0.0068	
38	4	0.006	0.008	0.004	0.0058	0.006	
39			0.0075	0.0035	0.0043	0.0052	
40			0.007	0.0031	0.0039	0.0048	

U.S. Standard Gage is officially a weight gage, in oz. per sq. ft. as tabulated. The approximate thickness shown is the "Manufacturers' Standard" of the American Iron and Steel Institute, based on steel as weighing 501.81 lb. per cu. Ft. (489.6 true weight plus 2.5% for average over-run in area and thickness)

UNIT WEIGHT OF DIFFERENT ENGINEERING MATERIALS

(TABLE-6 to TABLE-8)

TABLE-6

UNIT WEIGHT OF DIFFERENT MATERIALS			UNIT WEIGHT OF M.S. FLAT BARS ***			
Materials	Unit Weight		Size		Weight	
	lb/cft	kg/cum	inch	mm *	Ib/rft	kg/meter
Asphalt	66	1057	3/4 x 1/8	20 x 3	0.32	0.471
Aluminium	165	2643	3/4 x 3/16	20 x 5	0.48	0.785
Bamboo	25	400	3/4 x 1/4	20 x 6	0.64	0.942
Bitumen	65	1040	1 x 1/8	25 x 3	0.43	0.589
Brass	534	8552	1 x 3/16	25 x 5	0.64	0.981
Bricks	69	1110	1 x 1/4	25 x 6	0.85	1.178
Brick ballast	60-70	960-1120	1 1/4 x 1/8	30 x 3	0.53	0.707
Brick chips	80-110	1280-1760	1 1/4 x 3/16	30 x 5	0.8	1.178
Brick work	120	1922	1 1/4 x 1/4	30 x 6	1.06	1.413
Cast iron	450	7207	1 1/2 x 1/8	40 x 3	0.64	0.942
Cement	90	1440	1 1/2 x 3/16	40 x 5	0.96	1.57
Cement concrete	140	2240	1 1/2 x 1/4	40 x 6	1.28	1.884
Clay (dry to wet)	115-130	1840-2080	2 x *3/3/16*	50 x 5	1.28	1.9625
Coal (loose)	50	800	2 x 1/4	50 x 6	1.7	2.335
Copper	556	8905	UNIT WEIGHT OF M.S. SOLID SQUARE BARS			
Earth (compacted & damp)	100	1600	Size		Weight	
Earth (dry & loose)	90	1440	inch	mm *	Ib/rft	kg/meter
Garjan timber	45-50	720-800	1/2 x 1/2	12 x 12	0.851	1.13
Gravel	90	1440	3/4 x 3/4	20 x 20	1.914	3.14
Lead	710	11371	1 x 1	25 x 25	3.403	4.906
Lime concrete	120	1920	UNIT WEIGHT OF M.S. Z-SECTION			
Lime (slaked to fresh)	40-60	640-960	Size		Weight	
Lime stone	150	2400	inch	mm *	*Ib/rft*	kg/meter
Macadam (tar)	140	2242	3/4 x 3/4 x 3/4 x 1/8	20 x 20 x 20 x 3	0.851	1.272
Marble	169	2707	3/4 x 3/4 x 3/4 x 3/16	20 x 20 x 5	1.196	1.963
Mild steel	490	7850	1 x 1 x *1/8*	25 x 25 x 3	1.17	1.625
Pebbles	90	1440	1 x 1 x *3/16*	25 x 25 x 5	1.675	2.551
Plain concrete	144	2300	UNIT WEIGHT OF M.S. ANGLE			
Reinforced cement concrete	150	2400	Size		Weight	
Sal wood	60-65	960-1040	inch	mm *	Ib/rft	kg/meter
Sand (dry to wet)	100-120	1600-1920	3/4 x 3/4 x 1/8	20 x 20 x 3	0.585	0.871
Shingles	90	1440	3/4 x 3/4 x 3/16	20 x 20 x 5	0.837	1.374
Silver	656	10506	3/4 x 3/4 x 1/4	20 x 20 x 6	1.063	1.601
Stone ballast	100	1600	1 x 1 x 1/8	25 x 25 x 3	0.798	1.107
Sundari wood	55-65	880-1040	1 x 1 x 3/16	25 x 25 x 5	1.156	1.766
Surki	80	1280	1 x 1 x 1/4	25 x 25 x 6	1.489	2.072
Surki mortar	85-120	1360-1920	1 1/2 x 1 1/2 x 1/8	40 x 40 x 3	1.223	1.813
Tar	90	1440	1 1/2 x 1 1/2 x 3/16	40x40x5	1.794	2.944
Teak wood	45-55	720-880	1 1/2 x 1 1/2 x 1/4	40 x 40 x 6	2.339	3.485
Water at 40 C	62.45	1000	*2 x 2 x 3/16*	50 x 50 x 5	2.432	3.729
Wrought iron	480	7688	2 x 2 x 1/4	20 x 20 x 6	3.19	4.427
			2 1/2 x 2 1/2 x 1/4	65 x 65 x 6	4.041	5.84
			3 x 3 x 1/4	75 x 75 x 6	4.891	6.782
			3 x 3 x *5/16*	75 x 75 x 8	6.048	8.918

*** Unit weight with respect to FPS measurements of materials

* Measurements in soft conversion

TABLE-7

WEIGHT OF M.S. TEES PER RFT							
Size in inch	Weight in Ibs.	Size in inch	Weight in Ibs.	Size in inch	Weight in Ibs.	Size in inch	Weight in Ibs.
1 x 1 x 1/8	0.81	1 1/2 x 1 1/2 x 1/4	2.35	2 1/4 x 2 1/4 x 1/4	3.64	3 x 3 x 3/8	7.2
1 x 1 x 1/4	1.54	1 3/4 x 1 3/4 x 1/4	2.79	2 1/2 x 2 1/2 x 1/4	4.07	3 x 3 x 1/2	9.38
1 1/4 x 1 1/4 x *3/16*	1.5	1 3/4 x 1 3/4 x 3/16	2.11	2 1/2 x 2 1/2 x 5/16	5	3 1/2 x 3 1/2 x 3/8	8.49
1 1/4 x 1 1/4 x 1/4	1.88	2 x 2 x 1/4	3.21	2 1/2 x 2 1/2 x 3/8	5.92	3 1/2 x 3 1/2 x 1/2	11.08
1 1/2 x 1 1/2 x *3/16*	1.81	2 x 2 x *3/8*	4.64	3 x 3 x 1/4	4.91		

TABLE-8

WEIGHT OF M.S. SHEET / PLATE PER SFT							
Thickness in BWG	Weight in Ibs.	Thickness in inch	Weight in Ibs.	Thickness in inch	Weight in Ibs.	Thickness inch	Weight in Ibs.
24	1.01	*1/16*	2.55	*5/16*	12.75	*5/8*	25.5
22	1.27	*1/8*	5.1	*3/8*	15.3	*3/4*	30.6
20	1.59	*3/16*	7.65	*7/16*	17.85	*7/8*	35.7
18	2.04	*1/4*	10.2	*1/2*	20.4	*1*	40.8

Miscellaneous Measurement Relations

Wet volume of constituents of concrete, mortar etc. = 1.5 x dry volume

100 maunds of slaked lime or Surki = 225 cft. (2.25 cft. = 1 maund)

100 cft. of hand broken khoa or brick chips require 850 Nos. bricks of size 9.5" x 4.5" x 2.75"

Standard Bricks 1000 Nos. = (approximately) 72 cft. = 2.039 cum = 3172 to 4000 kg.

1 bag of cement (British) = 1.25 cft. = 50 kg. Width of C.I. Sheet (24 BW.G) = 32 inch.

1 Ton of C.I. Sheet (24 BW.G.) = 10 bundles

1 bundle = 12 Nos. 6' - 0" long = 10 Nos. 7' - 0" long = 9 Nos. 8' - 0" long = 8 Nos. 9' - 0" long = 7 Nos. 10' - 0" long

950 rft. of barbed wire (12 BW.G.) = 1 cwt.

200 Nos. of 2.5" long nails = 1 seer.

1 gallon of plastic emulsion paint / synthetic enamel paint covers 300 sft. of new surface.

1 gallon of distemper covers 250 sft. of new surface.

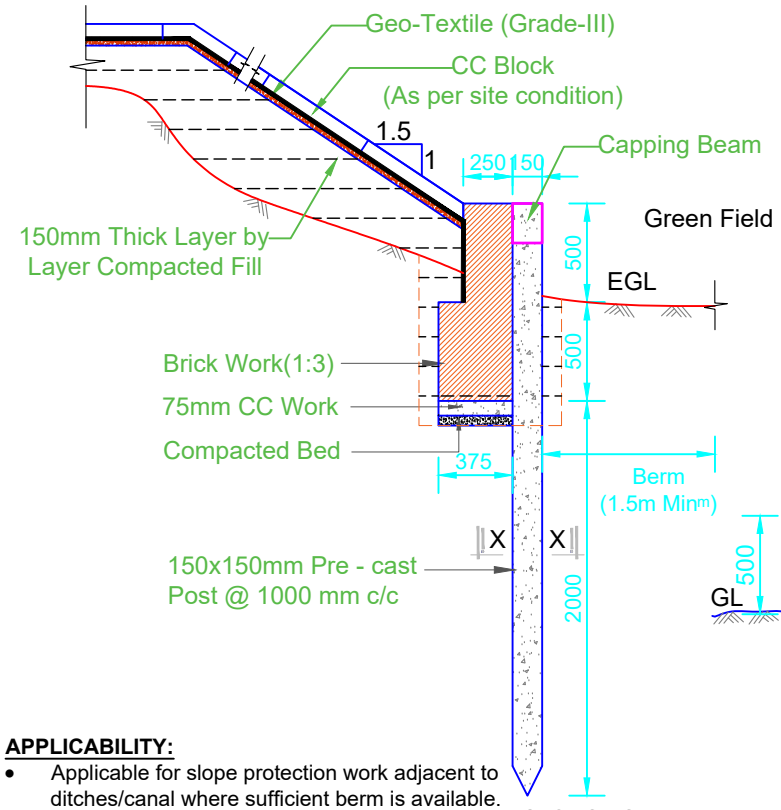
1 drum (40 kg) of snowcem covers 2475 square yards.

100 cft masonry brick work requires 1100 nos standard bricks (size 9.5" x 4.5" x 2.75")

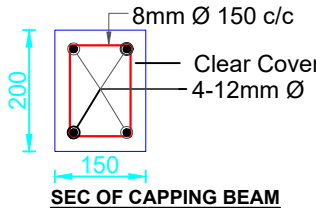
Brick Soling:

- **Single brick flat soling requires: 300 Nos. bricks per % sft. (Brick size 9.5' x 4.5' x 2.75')**
- **Double brick flat soling requires: 600 Nos. bricks per % sft. (Brick size 9.5' x 4.5' x 2.75')**
- **Herring bone bond (HBB) brick soling requires: 500 Nos. bricks per % sft. (Brick size 9.5' x 4.5' x 2.75')**
- **Brick on end edging requires: 250 Nos. bricks per % rft. (Brick size 9,5' x 4.5' x 2.75')**

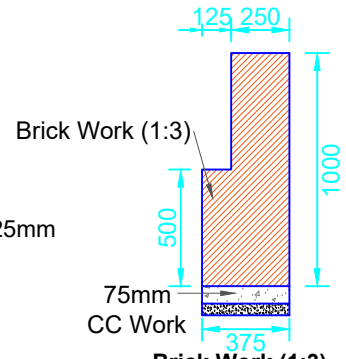
TOE WALL WITH MASONRY BRICK AND PRE-CAST RCC POST (BP-TW)



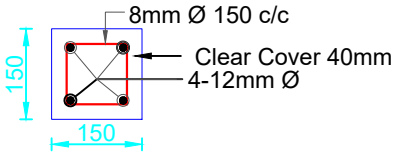
SECTION OF Y-Y



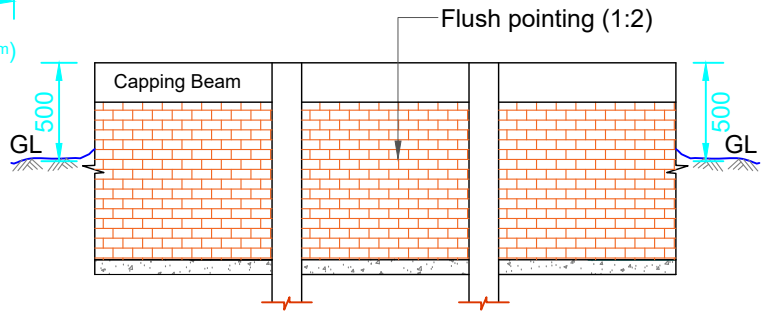
SEC OF CAPPING BEAM



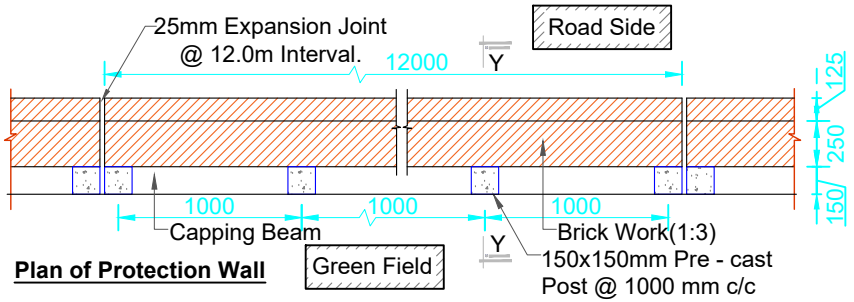
Brick Work (1:3)



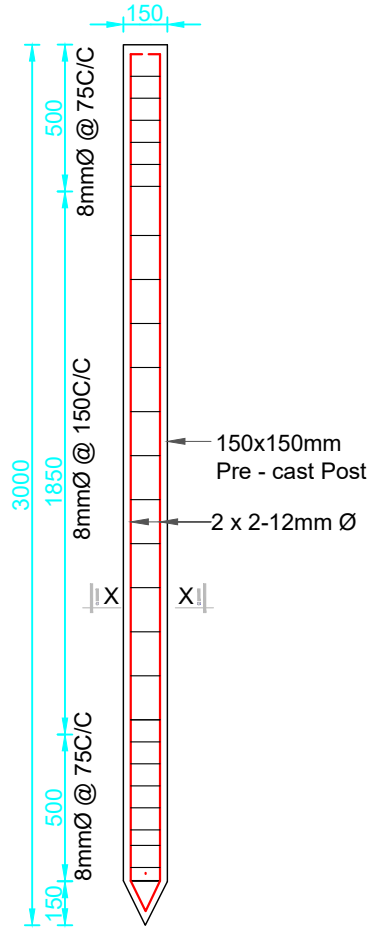
SEC OF X-X



Field Side View



Plan of Protection Wall



Reinforcement Details of 3.00m Long RCC Post

APPLICABILITY:

- Applicable for slope protection work adjacent to ditches/canal where sufficient berm is available.
- For for sloping bed or very soft/loose soil the design may not be suitable.

NOTES:

1. All dimensions are in mm (unless otherwise mentioned).
2. 28 day's Cylindrical Concrete Strength f'c = 25 MPa.
3. MS Deformed bar (fy= 400 Mpa)
4. Expansion joint at 12.0m interval
5. Joint Filling in Brick Work (1:3)
6. **Pre-cast post must be driven by drop hammer**
7. Construction of the Structure which is under water should be done by bailing out of water.

GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH
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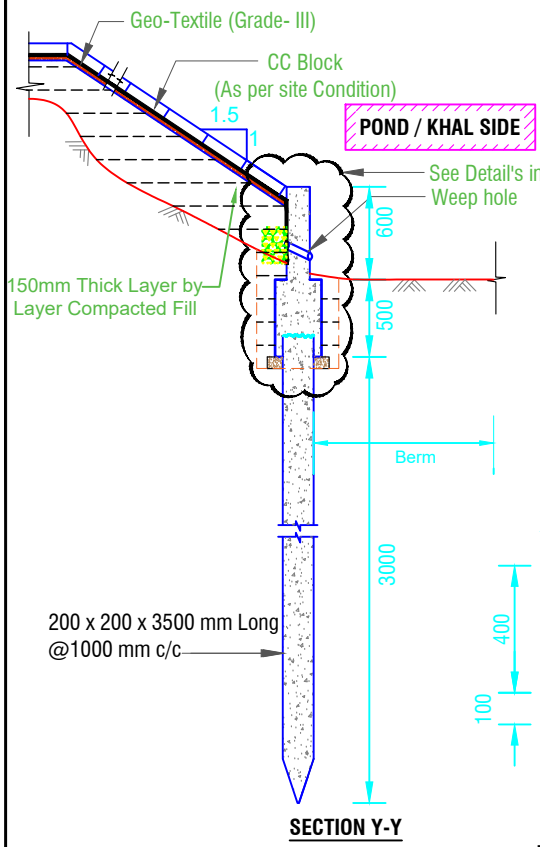
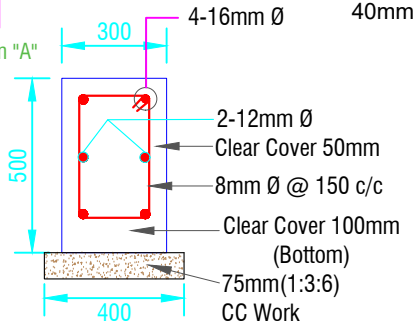
DESIGN UNIT, LGED. **ROAD & BUILDING DESIGN SECTION** RDEC BUILDING (LEVEL - 4), Tel. : +880 2 9119609, +880 2 9123980 Fax : +880 2 9118175 E-mail: se.design.rnb@lged.gov.bd	**Md. Shamim Hasan** AE (R&B Design) LGED HQ, Dhaka.	**Md. Ibrahim Khalil** XEN (R&B Design) LGED HQ, Dhaka.	**Md. Abdus Salam Molla** SE (R&B Design) LGED HQ, Dhaka.

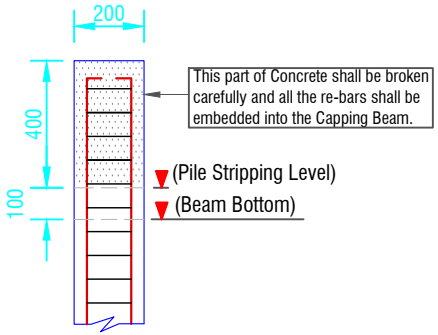
RCC TOE WALL FOR SLOPE PROTECTION WORK (RCC-TW 600)



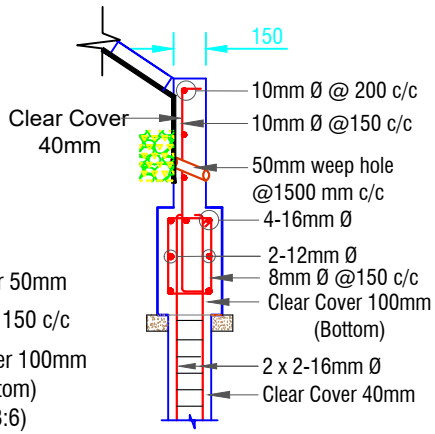
SECTION Y-Y



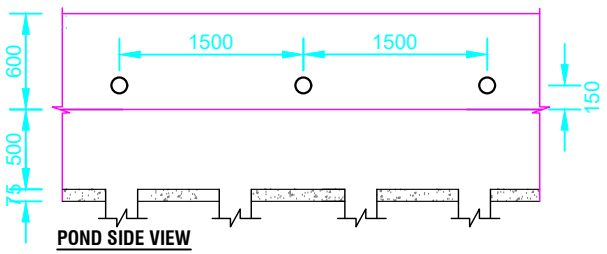
SECTION OF CAPPING BEAM



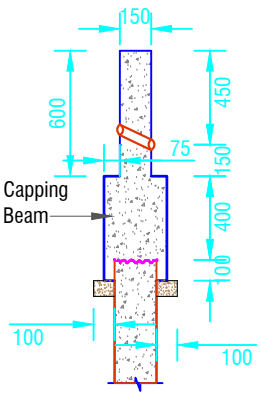
DETAIL "B"



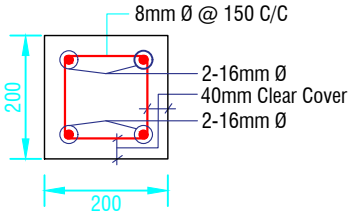
DETAIL "A"



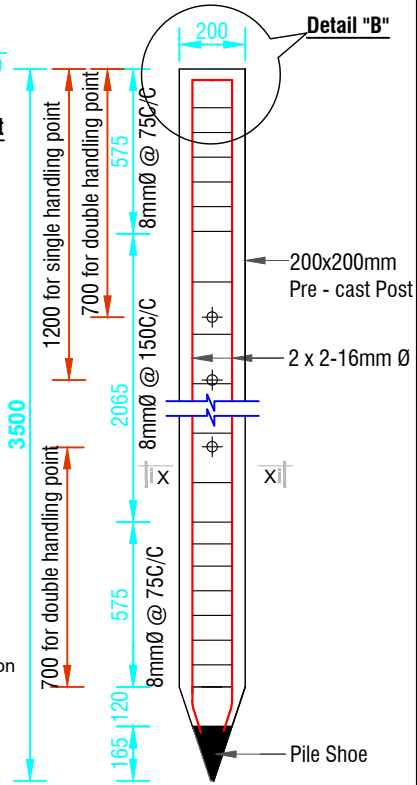
POND SIDE VIEW



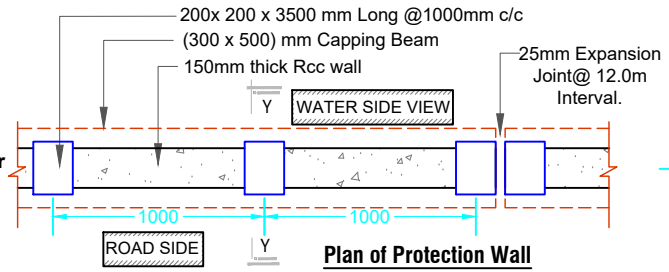
Pile & Capping Beam Joint



SEC OF X-X



Reinf. Details of 3.50m Long Pile



Plan of Protection Wall

APPLICABILITY:

- Applicable for slope protection work for road adjacent to canal/ditches.
- when the toe wall placed adjacent to canal, sufficient berm is needed.
- For sloping bed or soft soil deeper cutoff depth is required.
- If it is not possible to ensure sufficient cutoff depth due to high (LWL) water level, then sheet pile cutoff wall may be needed (Annex A).

NOTES:

1. All dimensions are in mm (otherwise mentioned)
2. Pile head must be projected into Capping beam (pile cap)100mm with full X-Section.
3. 28 day's Cylindical Concrete Strength f'=25MPa.
4. MS Deformed bar (fy = 400 MPa)
5. Expansion joint at 12.0m interval
6. **Pre-cast post must be driven by drop hammer**
7. Bailing out may be required to avoid construction under water.
8. Back filling on both sides of capping beam shall be compacted properly.

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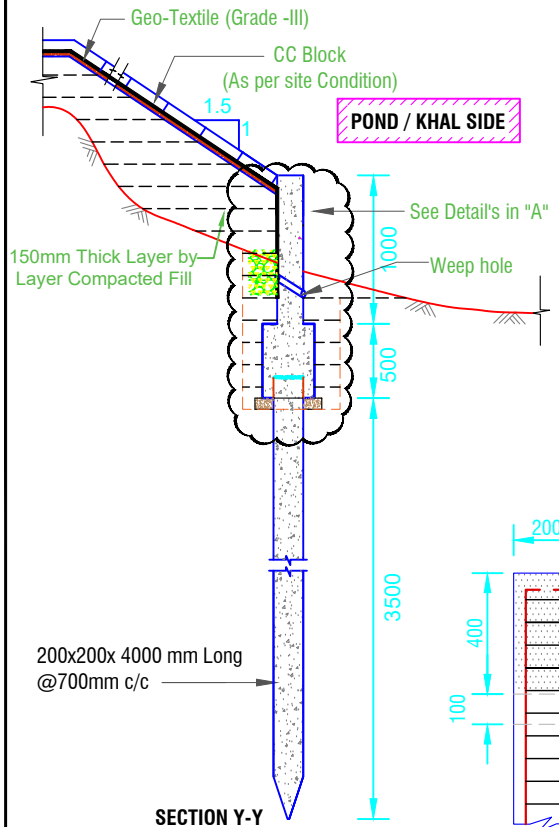
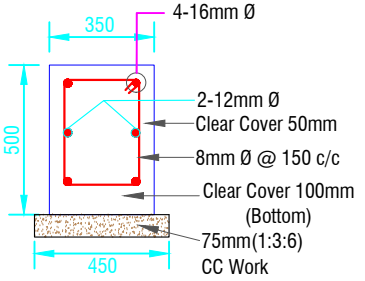
DESIGN UNIT, LGED. ROAD & BUILDING DESIGN SECTION RDEC BUILDING (LEVEL - 4), Tel. : +880 2 9119609, +880 2 9123980 Fax : +880 2 9118175 E-mail: se.design.rnb@lged.gov.bd	Md. Shamim Hasan AE (R&B Design) LGED HQ, Dhaka.	Md. Ibrahim Khalil XEN (R&B Design) LGED HQ, Dhaka.	Md. Abdus Salam Molla SE (R&B Design) LGED HQ, Dhaka.

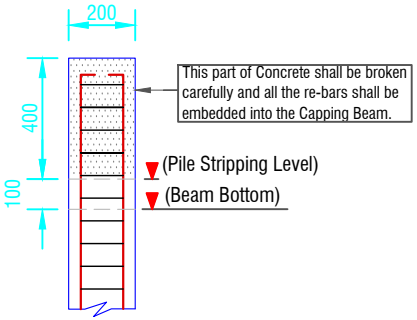
RCC TOE WALL FOR TOE/SLOPE PROTECTION WORK (RCC-TW 1000)



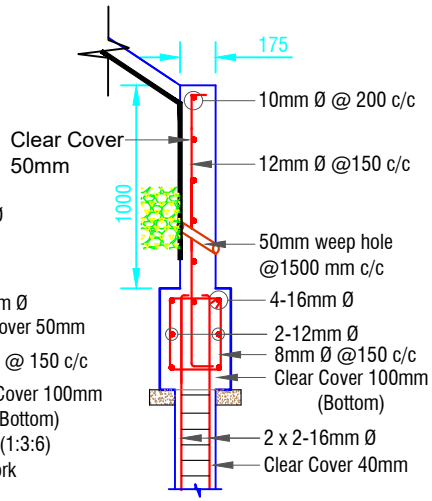
SECTION Y-Y



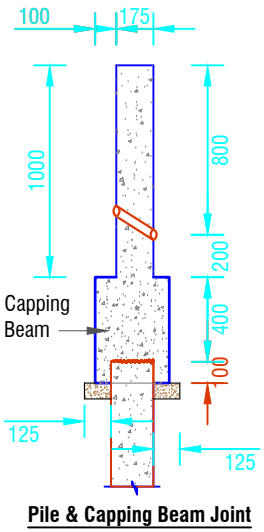
SECTION OF CAPPING BEAM



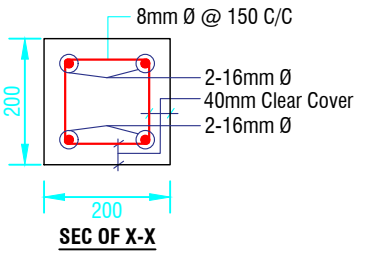
DETAIL "B"



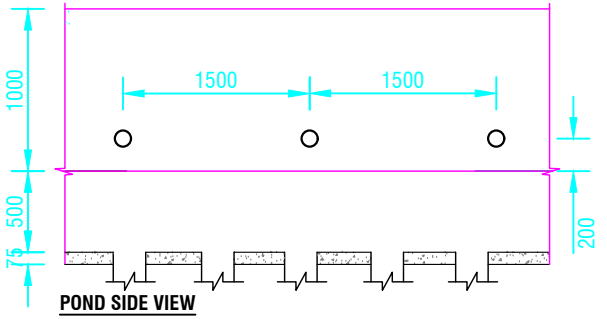
DETAIL "A"



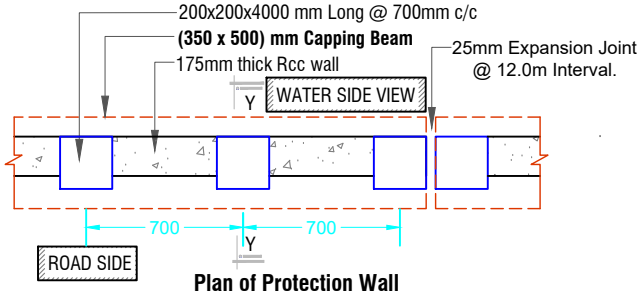
Pile & Capping Beam Joint



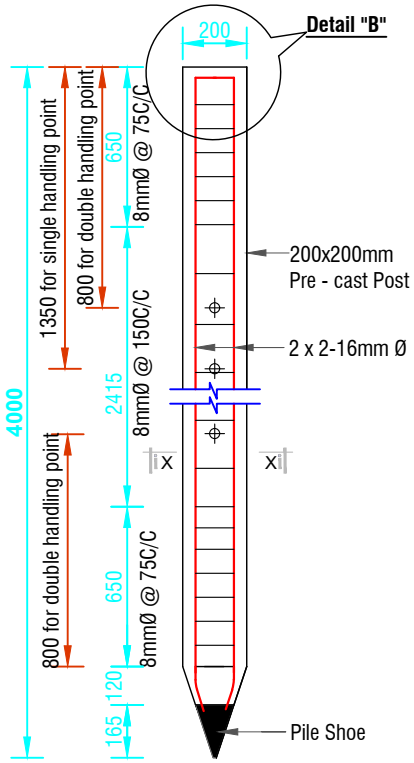
SEC OF X-X



POND SIDE VIEW



Plan of Protection Wall



Reinf. Details of 4.00m Long Pile

APPLICABILITY:

- Applicable for toe/slope protection work for roads adjacent to canal/pond.
- SPT test is required up to a minimum depth of 6.0m
- If SPT value ≤2 near pile head or SPT value <6 near pile tip then vetting is needed from design Unit (R&B)
- For sloping bed or soft soil deeper cutoff depth is required.
- If it is not possible to ensure sufficient cutoff depth due to high (LWL) water level, then sheet pile cutoff wall may be needed (Annex A).

NOTES:

1. All dimensions are in mm (otherwise mentioned)
2. Pile head must be projected into Capping beam (pile cap) 100m with full X-Section.
3. 28 day's Cylindical Concrete Strength f'c =25MPa.
4. MS Deformed bar (fy = 400 MPa)
5. Expansion joint at 12.0m interval
6. **Pre-cast post must be driven by drop hammer**
7. Bailing out may be required to avoid construction under water.
8. Back filling on both sides of capping beam shall be compacted properly.

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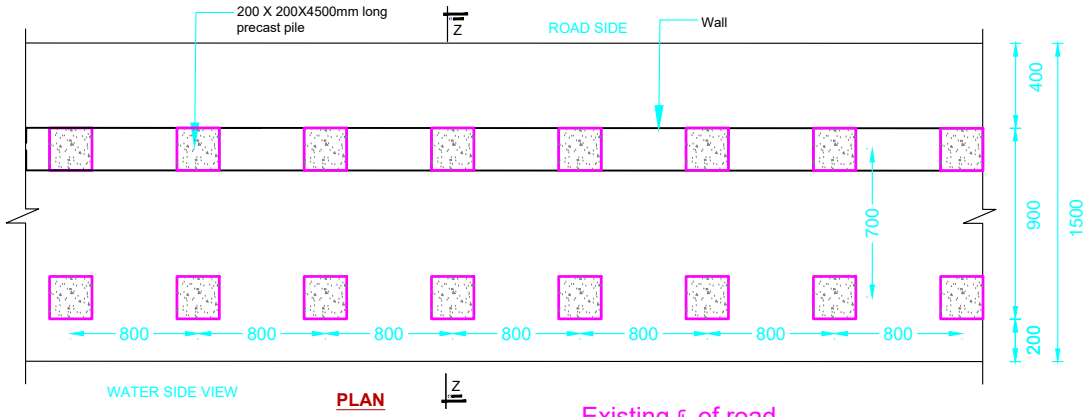
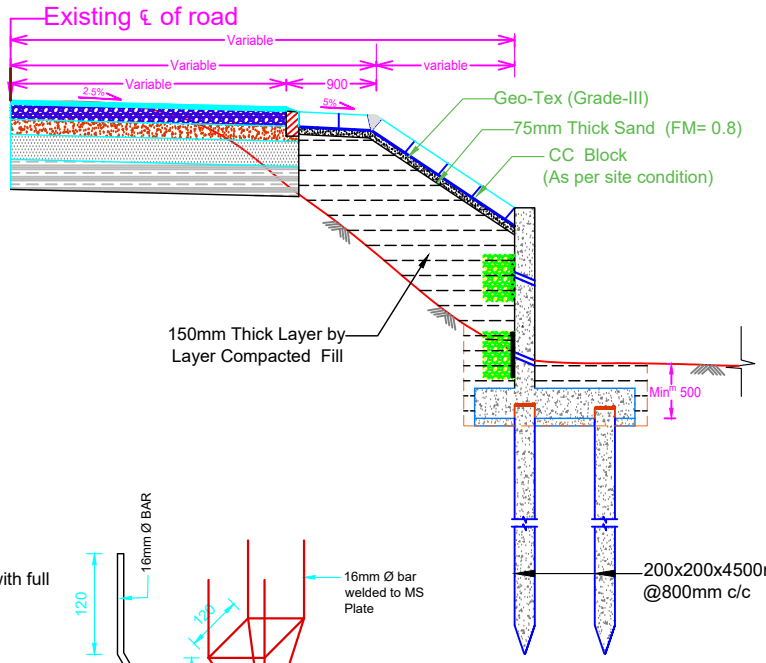
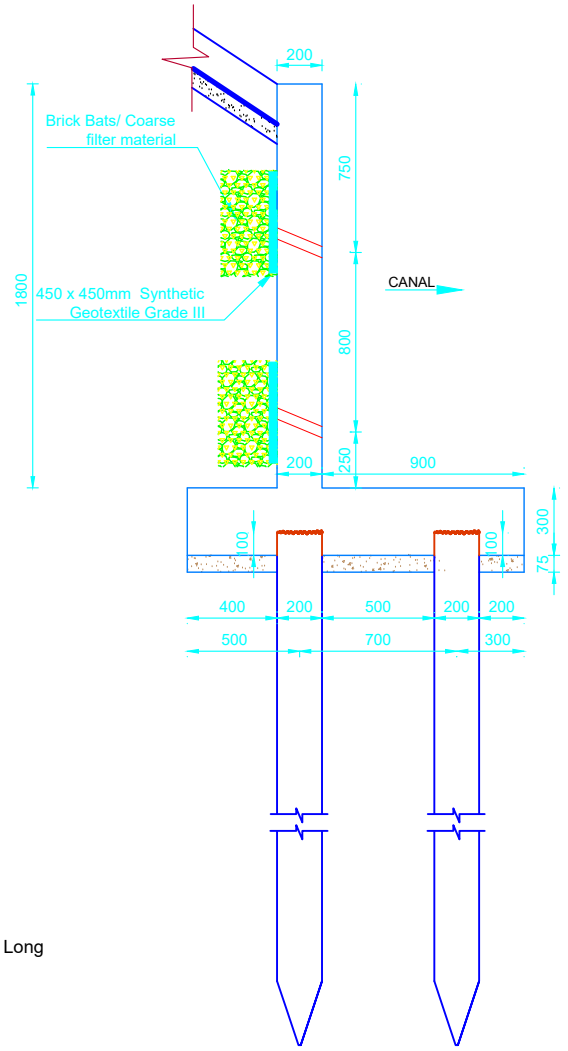
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH LOCAL GOVERNMENT ENGINEERING DEPARTMENT AGARGAON, SHER-E-BANGLA NAGAR, DHAKA-1207	DESIGN UNIT, LGED. ROAD & BUILDING DESIGN SECTION RDEC BUILDING (LEVEL - 4), Tel. : +880 2 9119609, +880 2 9123980 Fax : +880 2 9118175 E-mail: se.design.rnb@lged.gov.bd	Md. Shamim Hasan AE (R&B Design) LGED HQ, Dhaka.	Md. Ibrahim Khalil XEN (R&B Design) LGED HQ, Dhaka.	Md. Abdus Salam Molla SE (R&B Design) LGED HQ, Dhaka.

RCC RETAINING WALL WITH DOUBLE LAYER PRE-CAST PILE (RCC-RW 1800)





Z-Z SECTION



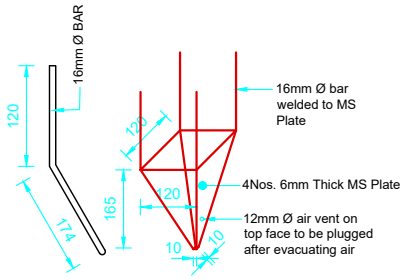
DIMENSIONAL DETAILS

APPLICABILITY:

- Applicable for bank/slope protection work adjacent to canal/pond where more height is needed.
- SPT test is required up to a minimum depth of 6.0m
- If SPT value ≤2 near pile head or SPT value <8 near pile tip then vetting is needed from Design Unit (R&B)
- For sloping bed or soft soil deeper cutoff depth is required.
- if it is not possible to ensure sufficient cutoff depth, due to high (LWL) water level, then sheet pile cutoff wall may be needed (Annex A).

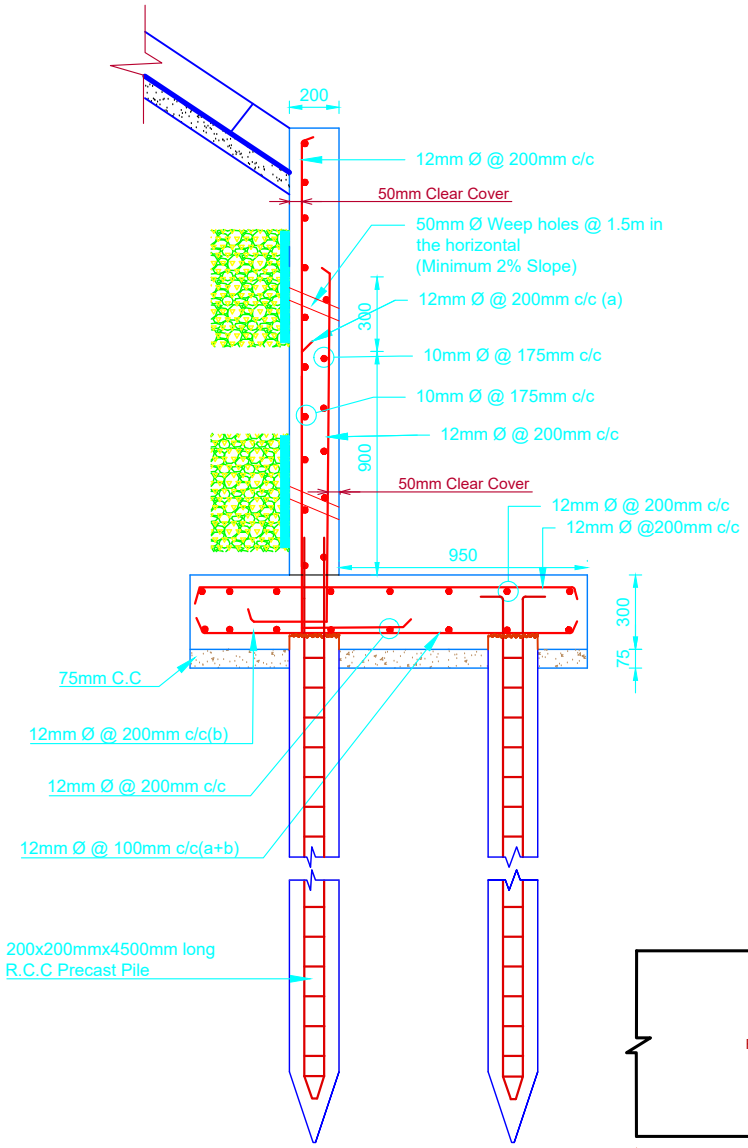
NOTES:

1. All dimensions are in mm unless otherwise mentioned
2. Pile head must be projected into Capping beam (pile cap) 100m with full X-Section.
3. 28 day's Cylindical Concrete Strength f'c =25MPa.
4. MS Deformed bar (fy= 400 Mpa)
5. Expansion joint at 12.0m interval
6. **Pre-cast post must be installed by driving**
7. Construction of the Structure which is under water should be done by Bailing out of water.
8. Each year after rainy season missing blocks must be replaced with proper leveling and dressing.

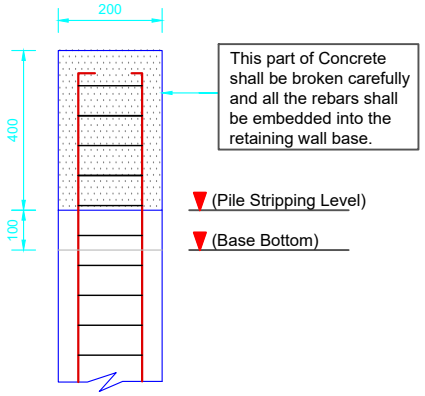


PILE SHOE DETAILS

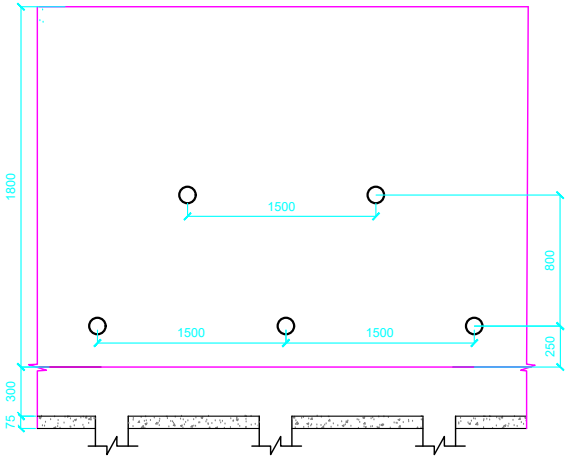
	DESIGN ORGANIZATION	DESIGNED BY	CHECKED BY	COUNTER SIGNED BY
GOVERNMENT OF THE PEOPLE'S REPUBLIC OF BANGLADESH **LOCAL GOVERNMENT ENGINEERING DEPARTMENT** AGARGAON, SHER-E-BANGLA NAGAR, DHAKA-1207	**DESIGN UNIT, LGED.** **ROAD & BUILDING DESIGN SECTION** RDEC BUILDING (LEVEL - 4), Tel. : +880 2 9119609, +880 2 9123980 Fax : +880 2 9118175 E-mail: se.design.rnb@lged.gov.bd	**Md. Shamim Hasan** AE (R&B Design) LGED HQ, Dhaka.	**Md. Ibrahim Khalil** XEN (R&B Design) LGED HQ, Dhaka.	**Md. Abdus Salam Molla** SE (R&B Design) LGED HQ, Dhaka.



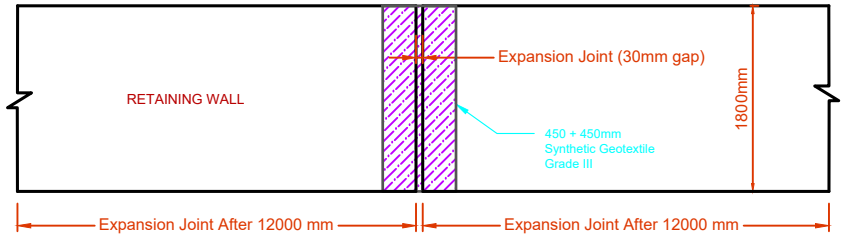
REINFORCEMENT DETAILS OF RETAINING WALL



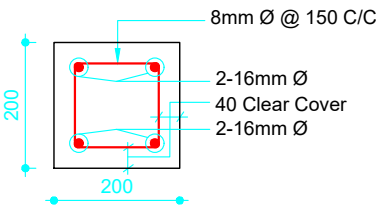
DETAIL -A



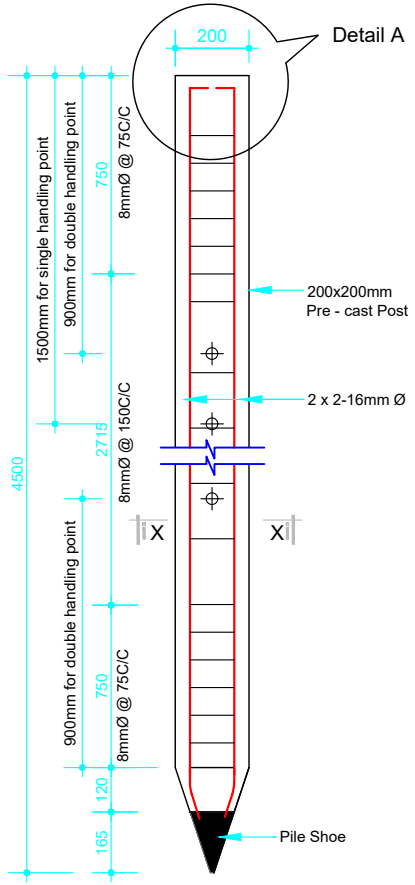
WATER SIDE VIEW



ELEVATION



SEC OF X-X



Reinf. Details of 4.50m Long Pile

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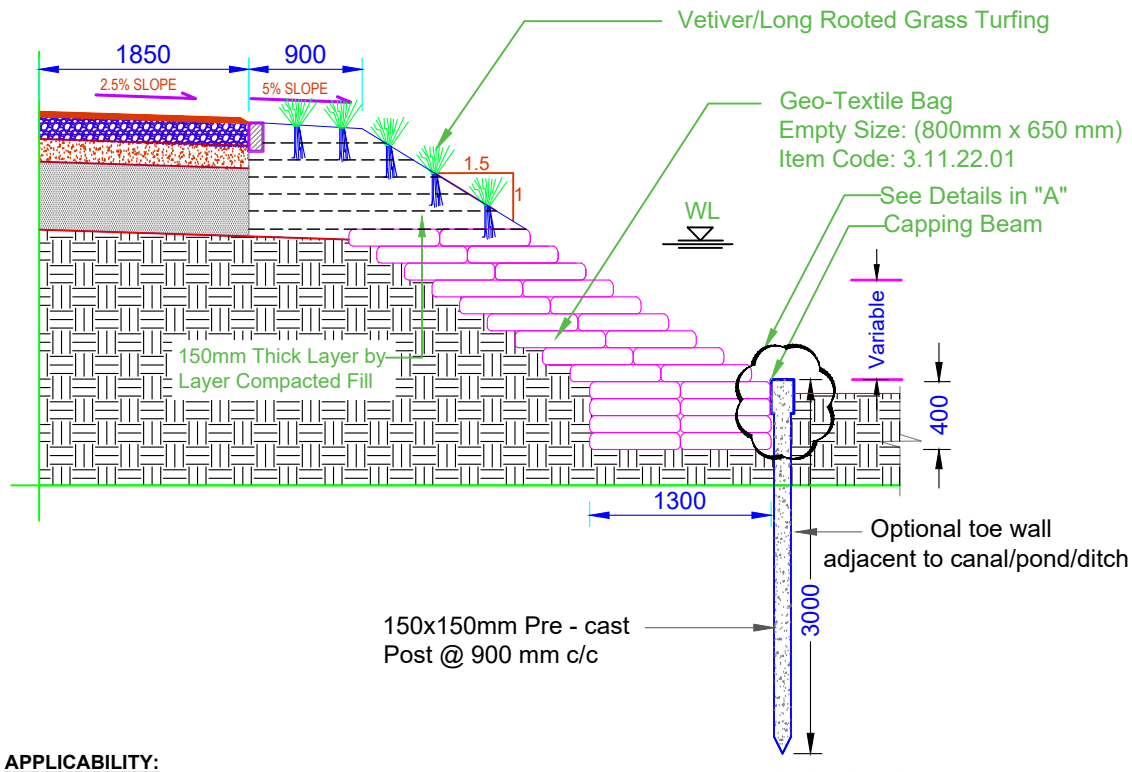
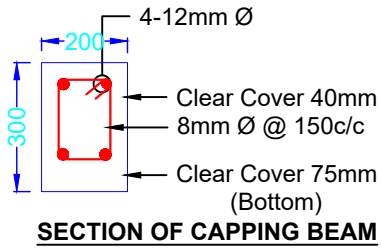
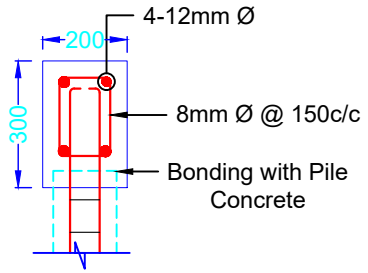
SLOPE PROTECTION WORK WITH TOE WALL AND SAND-GEO BAG (GeoBag-SP) - Option A



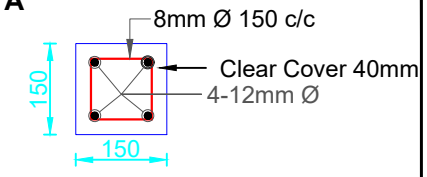
SECTION OF Y-Y



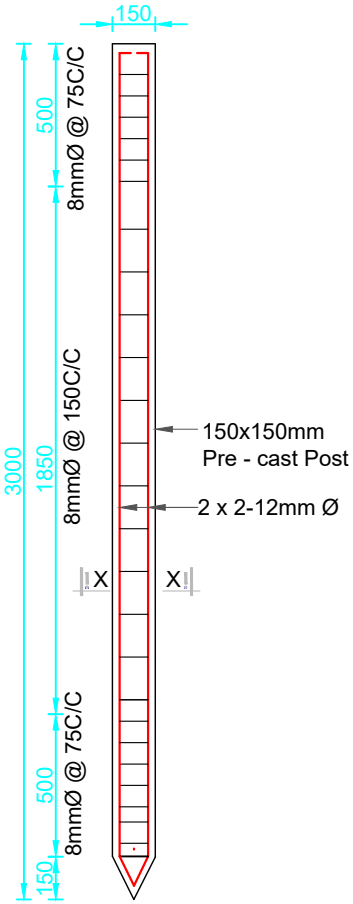
SECTION OF CAPPING BEAM



DETAIL "A"



SEC OF X-X



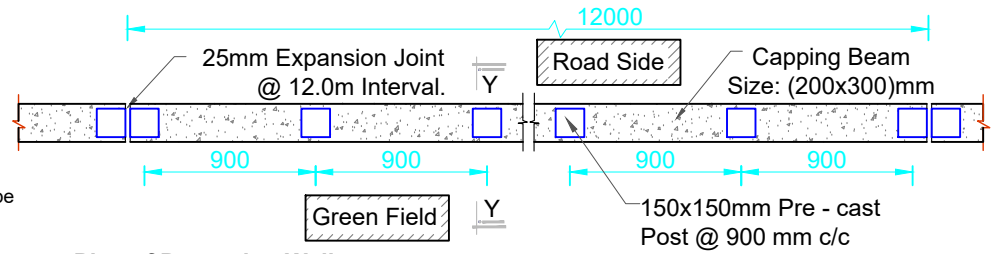
Reinforcement Details of 3.00m Long RCC Post

APPLICABILITY:

Applicable for slope protection work for embankment on soft soil adjacent to permanent water body, canal/pond subject to wave action.

NOTES:

1. All dimensions are in mm (unless otherwise mentioned).
2. 28 day's Cylindrical Concrete Strength f'c = 25 MPa.
3. MS Deformed bar (fy= 400 Mpa)
4. Expansion joint at 12.0m interval
5. **Pre-cast post must be driven by drop hammer**
6. Construction of the Structure which is under water should be done by bailing out of water.
7. Exposed geo-bag may need periodic maintenance.
8. Capping beam casting shall be done with full shuttering including bottom ensuring proper bonding with pile concrete.



Plan of Protection Wall

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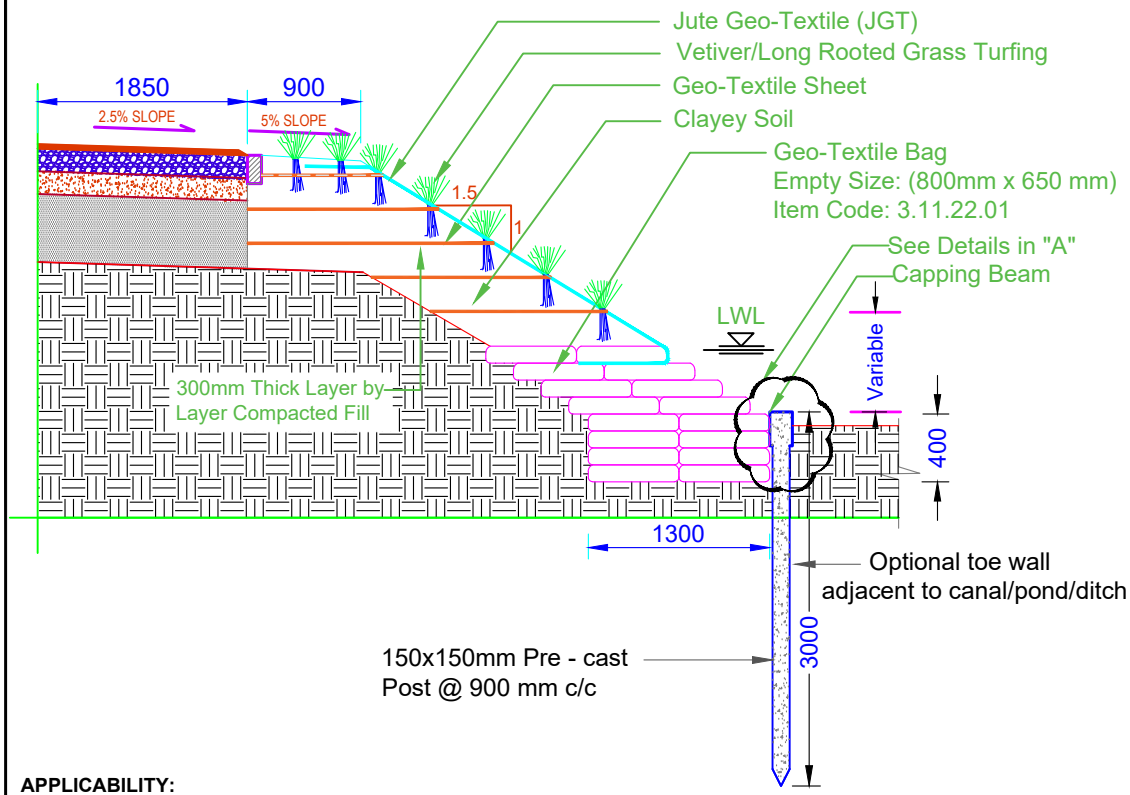
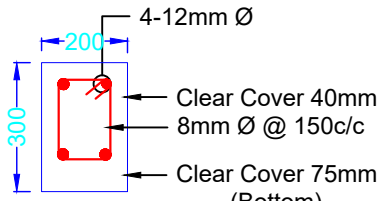
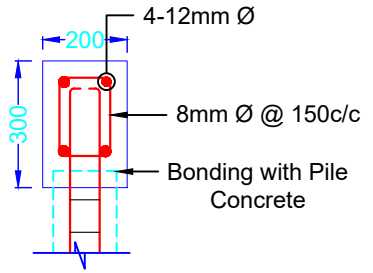
SLOPE PROTECTION WORK WITH TOE WALL AND SAND-GEO BAG (GeoBag-SP) - Option B



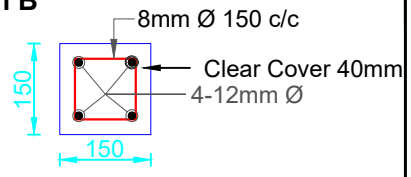
SECTION OF Y-Y



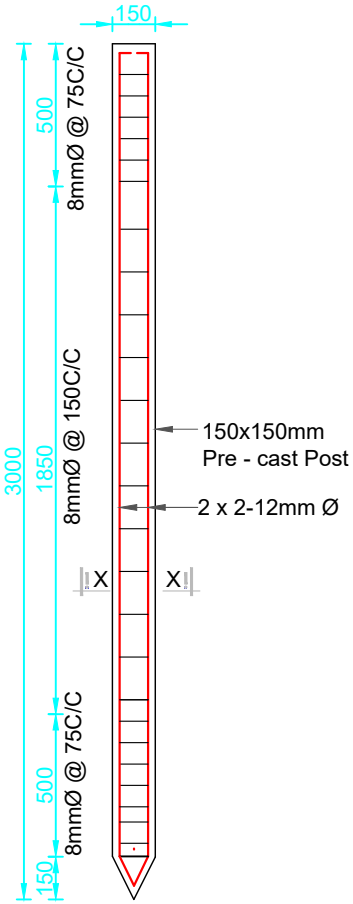
SECTION OF CAPPING BEAM



DETAIL "A"



SEC OF X-X



Reinforcement Details of 3.00m Long RCC Post

APPLICABILITY:

Applicable for slope protection work for embankment on soft soil adjacent to permanent water body, canal/pond.

NOTES:

1. All dimensions are in mm (unless otherwise mentioned).
2. 28 day's Cylindrical Concrete Strength f'c = 25 MPa.
3. MS Deformed bar (fy= 400 Mpa)
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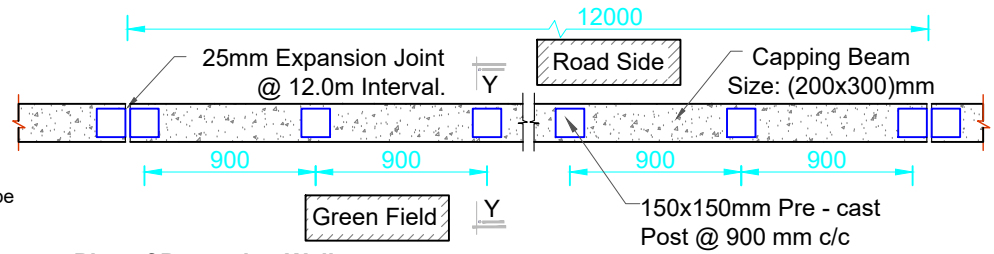

Plan of Protection Wall

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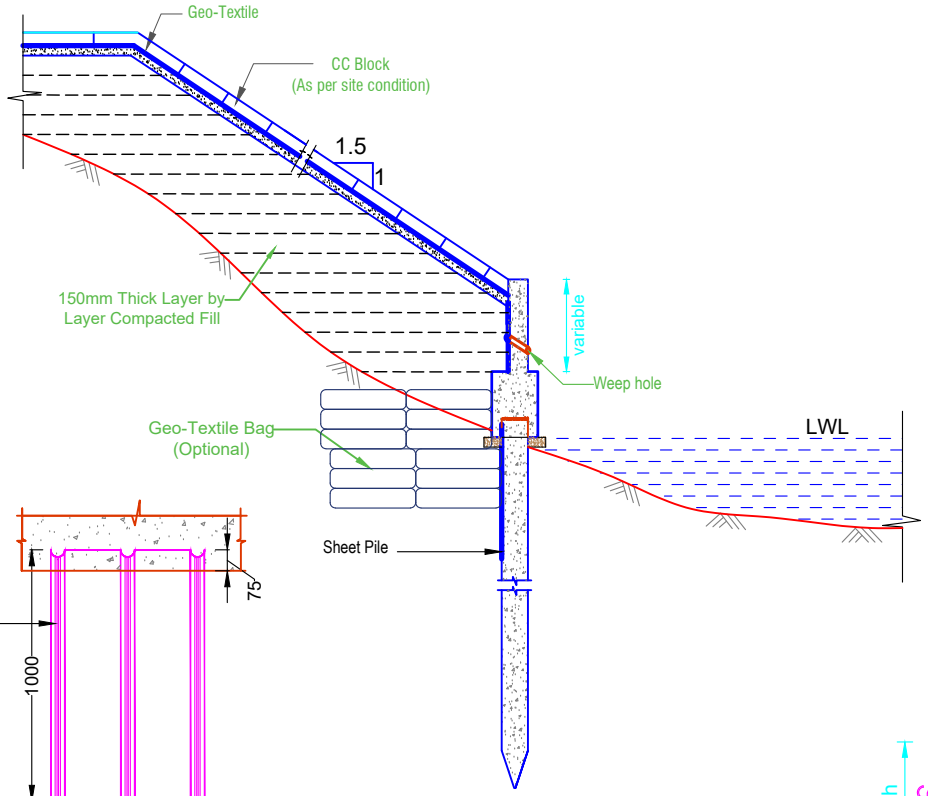
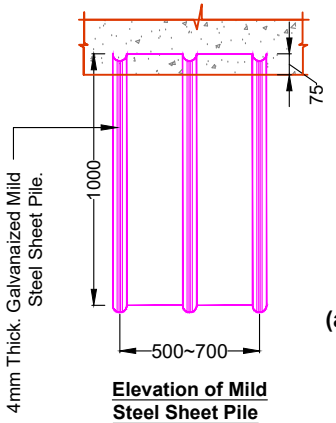
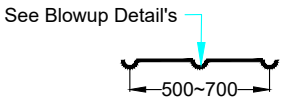
ANNEX A: SAMPLE DESIGN OF SHEET PILE CUTOFF WALL
(Need Based Design to be sought from Design Unit (R&B))



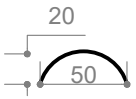
(a) Cutoff Wall with Galvanized Sheet Pile & Geo-bag



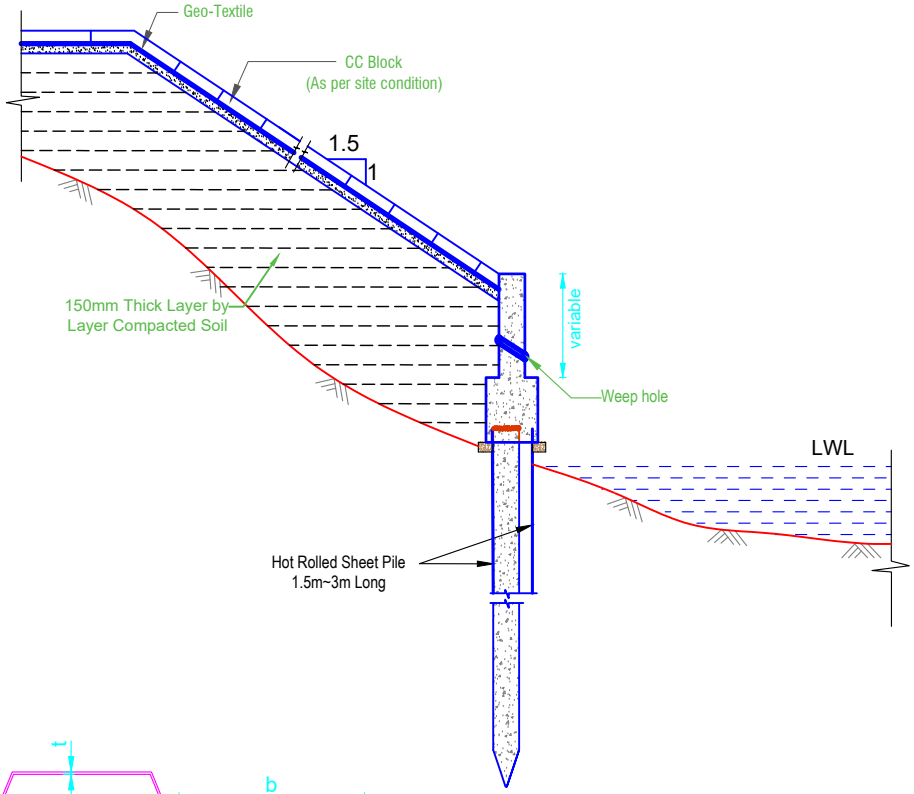
Elevation of Mild Steel Sheet Pile



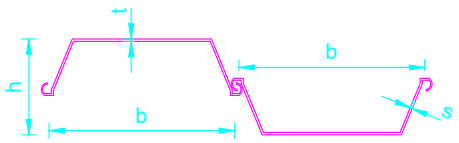
Plan of Mild Steel Sheet Pile



Blowup Detail's



(b) Cutoff Wall with Hot Rolled Sheet Pile



DETAILS OF HOT ROLLED SHEET PILE

Table: For Hot Rolled Sheet Pile

Widh b mm	Height h mm	Back-Thickness t mm	Web-Thickness s mm	Weight			Section-modulus cm^3	Moment of Inertia cm^4
				SP kg/m	DP kg/m	Wall kg/m^2		
600	310	7.5	6.4	46.8	93.6	78.0	745	11520

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List of Abbreviations

Earth Work:

C&G	: Clearing and Grubbing
CB	: Clay Blanket
EFW	: Earth Filling Work
EFW (AE)	: Earth Filling Work (Arranged Earth)
EFW (CE)	: Earth Filling Work (Carried Earth)
EFW (DrS)	: Earth Filling Work (Dredged Soil)
EWEx (C/P/D)	: Earth Work in Excavation (for Canals/Ponds/Drains)
EWEx (Rd/C/P)	: Earth Work in Excavation (for Roadway/Canals/Ponds)
EWEx(Dr)	: Earth work in Excavation (Dredged Soil)
EWEx(M)	: Earth Work in Excavation by Mechanical Means (By Hydraulic Excavator)

Road Work:

125mmBW (1:3)	: 125mm thick Brick Work with Cement Mortar (1:3)
12BWG (WM)	: 12 Birmingham Wire Gauge (Wire Mesh)
12mmSC	: 12mm thick Bituminous Surfacing - wearing Course
15mmSC	: 15mm thick (minimum) Surfacing - Wearing Course
25mmBC	: 25mm thick (minimum) Bituminous Carpeting
25mmDC	: 25mm thick (minimum) Dense Bituminous Carpeting
25mmSGSS	: 25mm thick Semi Grouting with Stone Shingles
40mmBC (BG-60/70)	: 40mm thick (minimum) Bituminous Carpeting (using Bitumen Grade-60/70)
40mmDC (BG-60/70)	: 40mm thick (minimum) Dense Bituminous Carpeting (using Bitumen Grade-60/70)
50mmSGBC	: 50mm thick Semi Grouting with Brick Chips
50mmSGSC	: 50mm thick Semi Grouting with Stone Chips
50mmSGSS (BE)	: 50mm thick Semi Grouting with Stone Shingles (Bitumen Emulsion)
7mmSC	: 7mm thick (minimum) Seal Coat
ACA (T-C)	: Accelerating Chemical Admixture (Type-C)
AR-Paint	: Acrylic Type Reflectorized Paint
B&SBC	: Breaking and Spreading of Brick Chips
B&SCS	: Breaking and Spreading of Concrete Slab
BC (150mm)	: Box Cutting (up to 150mm Depth)
BC (300mm)	: Box Cutting (up to 300mm Depth)
BC&SGC (300mm)	: Box Cutting (up to 300mm Depth) & Sub-Grade Compaction
BC&SGP (300mm)	: Box Cutting (up to 300mm Depth) & Sub-Grade Preparation
BDS-PW	: Bitumen Drum Sheet-Protective Works
BMPM	: pre-mixed Bituminous Macadam laying by Paver Machine
BP	: Preparation of Bed by Cutting and Filling
CCBSC-RW	: Cement Concrete Block using Stone Chips for Road Works
CCBSS-10 (PW)	: Cement Concrete Blocks with Stone Shingles [Concrete Class 10MPa] (for Protective Work)
CCBSS-EE	: Cement Concrete Block using Stone Shingles for End Edging
CCBSS-EE-SR	: Cement Concrete Block using Stone Shingles for End Edging of Submersible Road
CCBSS-PW	: Cement Concrete Block using Stone Shingles for Pavement Works
CCRM-30SCCM	: Cement Concreting Work for Road Maintenance [Concrete Class 30MPa by Stone Chips by Concrete Mixer Machine]
CHB-PW (Ø75mm)	: Closed Hole Bamboo Palisading - Protective Work (diameter of bamboo 75mm)
CISG	: Compaction of Improved Sub-Grade
CP-BB	: Chequer Plate for Bailey Bridge
CS@0.75MD	: Chip Sealing @ 0.75kg/sqm by Mechanical Distributor

CS@1.20MD(BE)	: Chip Sealing @1.20kg/sqm by Mechanical Distributor (Bitumen Emulsion)
CWBM (iSSM)	: Compaction of Water Bound Macadam (including Supplying of Screening Materials)
DCPM	: Dense Bituminous Surfacing - Wearing Course laying by Paver Machine
Dis (SB/BC)	: Dismantling of Damaged Sub-base or Base course
DSFGB	: Dumping of Soil Filled Geo-Textile Bags
DSFPB	: Dumping of Soil Filled Plastic Bags
EE(125mm)	: Brick on End Edging (125mm across)
EE(75mm)	: Brick on End Edging (75mm across)
ExJFill	: Expansion/Longitudinal Joints Filling
FP (1:2)	: Flush Pointing with Cement Mortar (1:2)
GB (1:8)-SPW	: Cement Mortar (1:8) filled Gunny Bags for Slope for Protective Works
GBW (1:8)-PW	: Cement Mortar (1:8) filled Gunny Bags Barrier/Wall for Protective Works
HBPMM	: Hard Bed Preparation by Mechanical Means
JGT_RBP	: Jute Geo-Textile for River Bank Protection
JGT_RRC	: Jute Geo-Textile for Rural Road Construction
JGT-HSM	: Jute Geo-Textile for Hill Slope Management
KS (RW)	: Kerb Stone (Road Work)
LC-CCB	: Labour Charge for laying of Cement Concrete Block
LC-CCB (PW)	: Labour Charge for Laying of Cement Concrete Blocks
LC-Geo-Tex	: Labour Charge for Laying of Geo-Textile Filter
PCCBC	: Plain Cement Concrete with Brick Chips
PCHD@1.2	: Prime Coat by Hand Device @1.2liter/sqm
PCMD@1.2	: Prime Coat by Mechanical Device @1.2liter/sqm
PiBFS	: Picking up Brick Flat Soling
PiCCB	: Picking up Cement Concrete Block
PiEE (125mm)	: Picking up Existing Brick on End Edging (125mm across)
PiEE (75mm)	: Picking up Existing Brick on End Edging (75mm across)
PiHBB	: Picking up Herring Bone Bond
PiISG	: Picking up of Improved Sub-Grade
PPLM	: Preparation of Pothole by Labour Method
PS	: Polythene Sheet
RB 300	: Ribbed or Deformed bar (300W)
RB 400/400W	: Ribbed or Deformed Bar (400W)
RCA (T-B)	: Retarding Chemical Admixture (Type-B)
RCC	: Reinforced Cement Concrete
RCC (P+BW)-PW	: RCC Pallisading Works (RCC Post + Brick Work)
RCC (P+DP)-PW	: RCC Pallisading Works (RCC Post + RCC Double Plate)
RCC (P+SP)-PW	: RCC Pallisading Works (RCC Post + RCC Single Plate)
RCC (P+W) BC-PW	: RCC Pallisading Works (RCC Post + RCC Wall) using Brick Chips
RCC-20BCCM (PW)	: RCC Work [Concrete Class: 20MPa] by Brick Chips using Concrete Mixer Machine (for Protective Work)
RCC-20BCCM (RW)	: RCC Work [Concrete Class: 20MPa] by Brick Chips using Concrete Mixer Machine (for Road Work)
RCC-20SCBP (RW)	: RCC Work [Concrete Class: 20MPa] by Stone Chips using Batching Plant (for Road Work)
ReBFS (FM-0.50)	: Resetting of Brick Flat Soling (FM-0.50)
ReCCB	: Resetting of Cement Concrete Block
ReDP-PW	: Re-setting of RCC Double Plate Palisading Works
ReEE (125mm)	: Resetting of Brick on End Edging (125mm across)
ReEE(75mm)	: Resetting of Brick on End Edging (75mm across)
ReHBB (FM-0.50)	: Resetting of Herring Bone Bond (FM-0.50)

ReSP-PW	: Re-setting of RCC Single Plate Palisading Works
RMP	: Road Marking Paint
RMP (by-TPC)	: Road Marking Paint (by Thermoplastic Compound)
RRSheeting	: Retro-Reflectorized Reflective Sheeting
S&C (SB)	: Spreading & Compacting of Sub-Base
S&DSP	: Supplying & Delivering of Circular Steel Pipe
S&SBC	: Supplying and Spreading of Brick Chips
S&SBC (WG)	: Supplying and Spreading of Brick Chips (Well Graded)
S&SSC	: Supplying and Spreading of Stone Chips
S&SSC (WG)	: Supplying and Spreading of Stone Chips (Well Graded)
SB	: Sand Blinding
SBBC (70:30)	: Sub-Base Course by Brick Chips (Aggregate:Sand=70:30)
SBBC (FM-0.5)	: Sub-Base Course by Brick Chips (FM-0.5)
SBbySM (FM-0.5)	: Sub-Base Course by Salvage Materials (FM-0.5)
SBbySM (FM-0.8)	: Sub-Base Course by Salvage Materials (FM-0.8)
SBFS (FM-0.50)	: Single Layer Brick Flat Soling (FM-0.50)
SBSC (50:50)	: Sub-Base Course by Stone Chips (Aggregate:Sand=50:50)
SBSL (FM-0.5)	: Sub-Base Course by Local Crushed Stone (Louva) Chips
SHBB (FM-0.50)	: Single Layer of Herring Bone Bond (FM-0.50)
TCHD@0.75	: Tack Coat by Hand Device @0.75kg/sqm
TCMD@0.75	: Tack Coat by Mechanical Device @0.75kg/sqm
WBMBC	: Water Bound Macadam by Brick Chips
WBMSC	: Water Bound Macadam by Stone Base Course
WMCCBSS-20 (PW)	: Wire Meshed Cement Concrete Blocks with Stone Shingles (for Protective Work)
WMMBC	: Wet Mixed Macadam by Brick Chips
WMMSC	: Wet Mixed Macadam by Stone Base Course
WRACA (T-E)	: Water-Reducing and Accelerating Chemical Admixture (Type-E)
WRCA (T-A)	: Water Reducing Chemical Admixture (Type-A)
WRRCA (T-D)	: Water-Reducing and Retarding Chemical Admixture (Type-D)