



Government of the People's Republic of Bangladesh
Local Government Engineering Department

SCHEDULE OF RATES

October 2019



CUMILLA REGION

(Cumilla, Chandpur and B.Baria)



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PREAMBLE

The Local Government Engineering Department (LGED) is pleased to publish the Schedule of Rates (SOR) October-2019 for infrastructure construction works within the mandate of the LGED as reflected in the CPWA code. The last LGED's Schedule of Rates (SOR) was published in July-2018. Prices of some basic construction materials, labors and equipment have registered substantial increase during this period. This has necessitated revision of the SOR July-2018. Since publication, with continuous effort to keep pace with technological development in respect of materials, techniques and to act on feedback from the field engineers, a considerable number of new items have been included. Although the SOR October-2019 contains most of the items of the SOR July-2018, the nomenclature of some of the existing items has been revised and updated wherever found necessary.

Prices of major construction materials like bricks, sand, cement, steel, stone chips, bitumen, wood, etc. have been mostly obtained from local market through 64 district offices and rates of some minor construction materials and finished goods have been obtained from original producers or suppliers. 'LGED Schedule of Rates Updating Committee' has compared prevailing unit rates of similar items of works with other Government Departments, specially Roads and Highways Department (RHD), Public Works Department (PWD) and rates published by the Bangladesh Bureau of Statistics (BBS). In addition, comparatively higher rates have been considered exclusively for the remote and isolated places to accommodate the transportation disadvantages and acute crisis of materials and skilled/semi-skilled labors. This year basic rates of 25 common items collected from 20 LGED zones and rates were finalized through 06 (six) working groups under a central committee.

The supplementary items included in appendixes of SOR like gradation of aggregates, type of tests, frequency & fees, unit conversion, cross-sectional area of rebar, unit weight of different engineering materials, miscellaneous relations, standard drawings, etc. have been reviewed & updated wherever found necessary.

Precise and careful use of this document by the LGED engineers is strongly needed with judicious application of their wisdom. I expect that they will make best use of the document to prepare official estimates of different types of cost-effective infrastructures, especially in the rural and urban areas.

I am confident that this SOR October-2019 will be quite useful to all concerned in the construction industry in general and LGED in particular. All efforts have been taken for keeping this publication error free. However, effective suggestion for any correction, addition and alteration is always welcome for further improvement.

I would also take this opportunity to convey my sincere thanks to all the members of the committees, senior Engineers, officers and other colleagues for their genuine hard work and to endorse this edition of 'Schedule of Rates October-2019' for official use by the Local Government Engineering Department. It is expected that Local Government Institutions (LGIs), National, International NGOs and Private Sector will also benefit from the SOR.



Md. Khalilur Rahman

Chief Engineer

Local Government Engineering Department

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Chapter 1
General Information
&
Instructions to the Users

Chapter 1: General information & instructions to the users

- 1.1 This Schedule of Rates has been prepared using the standard analyzing formats with data input as provided by the field offices.
- 1.2 For use by the off-shore islands and inaccessible area (Hatia, Sandwip, Saint Martin, Moheshkhali, Kutubdia, Rangabali, Monpura, Barkol, Belaichari, Jurachari, Langadu, Naniarchar, Ruma, Thanchi and Rowangchari), the unit rates of different items of works shall be computed by enhancing the rates shown in this book by an **extra 10%**.
- 1.3 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.
- 1.4 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.
- 1.5 **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.**
- 1.6 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.
- 1.7 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 1.8 of this Chapter. 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.**

- 1.8 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 1.7 of this Chapter. 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.**
- 1.9 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.**
- 1.10 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.**
- 1.11 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.**
- 1.12 While black-topping the road pavement, no item of seal coat shall be considered over any dense bituminous carpet.
- 1.13 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.**
- 1.14 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.**
- 1.15 The field offices shall fully discourage entertainment of non-tendered items and major variations. It is required that the respective local office should prepare estimate for any works on making proper field investigations and undertaking appropriate survey works that will

leave least scope for major variations subsequently. Performing any works outside the scope of the Contract, if at all found unavoidable, shall require prior approval of the competent Authority before any such works starts. **The Authority shall not accord any post-facto sanctions to this effect.**

- 1.16 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.**
- 1.17 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 1.9, 1.14 and other relevant paragraphs of this Chapter shall also apply in this regard.**
- 1.18 **Local Government Institutions and other Organizations, using this Schedule of Rates for preparation of cost estimates, shall follow their prevailing rules and regulations, procedures and customs with regard to VAT, IT and profit.**
- 1.19 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.**
- 1.20 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.**
- 1.21 Road Design Standards that has been developed and circulated by the Government/LGED should be followed.
- 1.22 When under some specific circumstance use of sanitary wares of most sophisticated type/superior quality 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.**
- 1.23 **Instructions for Cost Estimating of Lump-Sum (LS) Items in Bridge Works**
- 1.23.1 Sub-soil investigation works (Item no. 4.02.03) will be carried out for all bridges. Number and depth of bore holes will be considered based on bridge length and bridge location and shall be decided in consultation with LGED Design Unit. Reputed firm will be engaged for this work and rate may be determined as per marketrate.

- 1.23.2 Electronic Cone Penetration test (Item no. 4.02.04) shall be carried out only for selected bridges and will be decided in consultation with LGED Design Unit. Reputed firm will be engaged for this work and rate may be determined as per market rate.
- 1.23.3 Dynamic load test of pile [Pile Dynamic Analyzer (PDA) Test] will be carried out only for selected bridges if instructed in the design /drawing or as per discussion LGED Design Unit. Reputed firm will be engaged for this work and rate may be determined as per market rate.
- 1.23.4 Engineer's site office in bridge works may be considered only for large bridges. Cost of engineer's office will be determined based on the detailed estimate including cost of building civil works, electrical works, water supply and sanitation works, furniture, etc. of drawings enclosed in Appendix-6 of this book with the deduction of salvaged amount @ 25% of estimated cost.

1.24 Provisional Sum

- 1.24.1 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.
- 1.24.2 The estimated cost of specialized work to be carried out, or of special goods to be supplied, by nominated Sub-contractor(s) should be indicated in the relevant part of the Bill of Quantities as a particular provisional sum with an appropriate brief description. A separate procurement procedure is normally carried out by the Procuring Entity to select such specialized Sub-contractor(s).
- 1.24.3 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]
- 1.25 In case of any of the foregoing instructions and stipulations of this Chapter comes into any conflict with any of the Codal Rules, the Codal Rules shall prevail.



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Additional Chief Engineer
(Road & Bridge Maintenance)

Chapter 2
Earth Works
in
Road Embankment

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

Chapter - 2 : Earth Works in Road Embankment

2.01.1	C&G: Clearing and grubbing by removal and disposal of everything above ground level including overhanging branches, removing of all foundation stumps, embedded logs, tree roots and other material either to a depth of 0.3m below the proposed surface elevation or to the level as shown on the drawing, disposing of all materials resulting from clearing and grubbing at a safe distance, etc. all complete as per direction of the E-I-C.	sqm	13.34
2.02.1	EFW: Earth filling work by manual labour with specified soil in any type of embankment and bridge approaches including cutting, carrying, filling, and compacting to 85% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO 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 other than rocky, gravelly and slushy including clod breaking to a maximum size of 100mm, benching not more than 300mm vertical and 600mm horizontal steps along the sides while widening any embankment, etc. all complete as per direction of the E-I-C. Earth is to be borrowed from the road side for all lead. Payment will be made on compacted volume. (compaction will be done by the contractor/LCS worker with approved equipment, including all ancillary charges for compaction and testing)		
2.02.1.1	Initial lift up to 1.50 m from the toe of embankment	cum	184.65
2.02.1.2	Up to 2.50m lift from the toe of embankment	cum	215.42
2.02.1.3	Up to 3.50m lift from the toe of embankment	cum	246.20
2.02.1.4	Up to 4.50m lift from the toe of embankment	cum	283.13
2.02.1.5	Up to 5.50m lift from the toe of embankment	cum	326.21
2.02.1.6	Up to 6.50m lift from the toe of embankment	cum	363.14
2.02.1.7	Up to 7.50m lift from the toe of embankment	cum	406.23
2.02.2	EFW(AE): Earth filling work with specified soil in any type of embankment, Earth shall be arranged by the contractor's own cost including royalty, cutting, carrying, filling and compacting to 85%/95%/98% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO 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, 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	255.43
2.02.2.02	95% Compaction	cum	296.21
2.02.2.03	98% Compaction	cum	316.28
2.02.3	EFW(CE): Earth filling work with specified soil in any type of embankment, 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% maximum dry density at optimum moisture content, with reference to laboratory density test AAHSTO standard hammer by throwing earth in layers not more than 150mm 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, 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.		
2.02.3.01	Outside municipal area, 85% Compaction	cum	328.27

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
2.02.3.02	Outside municipal area, 95% Compaction	cum	370.20
2.02.3.03	Outside municipal area, 98% Compaction	cum	387.25
2.02.3.04	Within municipal area, 85% Compaction	cum	356.99
2.02.3.05	Within municipal area, 95% Compaction	cum	400.46
2.02.3.06	Within municipal area, 98% Compaction	cum	419.31
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% minimum dry density at optimum moisture content 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.		
2.02.4.01	Initial distance within 300m	cum	193.86
2.02.4.02	Distance 300m to 600m	cum	219.50
2.02.4.03	Distance 600m to 1.0km	cum	265.66
2.02.4.04	Distance 1.0km to 2.0km	cum	316.96
2.02.4.05	Distance 2.0km to 3.0km	cum	368.25
2.02.4.06	Distance 3.0km to 4.0km	cum	419.54
2.02.4.07	Distance 4.0km and above	cum	496.48
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% minimum 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	370.20
2.04.1	EWEx(Rd/C/P): Excavation for roadway/canals/ponds, etc. in soil by manual means, including cutting and 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 2m and lead upto 20m. including arranging and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.		
2.04.1.1	Upto 20m lead from center line of the embankment	cum	125.92
2.04.1.2	Lead more than 20m from center line of the embankment	cum	156.70
2.04.2	EWEx(C/P/D): Earthwork in excavation of canals, ponds, drains, etc. by excavating earth to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, leveling, dressing, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging for and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	205.01

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	81.55
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	70.75
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	14.36
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 $\pm 2\%$ of OMC & compacting soil by vibratory soil compactor or by appropriate mechanical means to attain minimum 95% dry density at optimum moisture content 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	55.00
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 $\pm 2\%$ & compacting by vibratory soil compactor or by appropriate mechanical means to attain minimum 95% dry density at optimum moisture content 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	24.32
2.06.1	Turfing on embankment top and slope, building compound with good quality turf supplied by the contractor of not less than 225mm square in dimension including placing and watering till grass is fully grown, etc. all complete as per direction of the E-I-C (payment to be made only when grass is fully grown).	sqm	34.11
2.06.2	Supplying and planting vertiver (Binna) 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	54.11

Chapter 3

Road Works

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

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 $\pm$ 2% of OMC & compacting by appropriate mechanical means etc. to obtain design CBR at minimum compaction 98% of MDD etc. all complete as per direction of the E-I-C	sqm	14.30
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, watering, if necessary, spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing, manual compacting, etc. all complete as per direction of the E-I-C.	sqm	30.77
3.01.3.1	BC(300mm): Earth work in box cutting on road crest up to 300mm depth, maintaining proper grade, camber and alignment, super elevation on curves, removing soil to a safe distance, watering, if necessary, spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing, compacting the sub-grade by manual labour, etc. all complete as per direction of the E-I-C.	sqm	62.54
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 $\pm$ 2% of OMC & compacting the sub-grade by appropriate mechanical means to attain design CBR at minimum compaction 98% of MDD (Standard) etc. all complete as per direction of the E-I-C.	sqm	69.87
3.01.3.3	BC&SGP(300mm): Earth work in box cutting up to 300mm depth & Preparation of sub-grade by excavating road crest up to 300mm depth, removing soils to a safe distance or spreading it 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 $\pm$ 2% & compacting the 1st layer by appropriate mechanical means to attain design CBR at minimum compaction 98% of Standard proctor, 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 $\pm$ 2% and compacting the layer following the same procedure as 1st layer 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	134.43
3.01.4.1	BC(450mm): Earth work in box cutting on road crest up to 450mm depth, maintaining proper grade, camber and alignment, super elevation on curves, removing soil to a safe distance, spreading the excavated earth on road flanks and slopes uniformly including leveling, dressing, watering, compacting the sub-grade by manual labour, etc. all complete as per direction of the E-I-C.	sqm	90.62
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 $\pm$ 2% of OMC & compacting the sub-grade by appropriate mechanical means to attain design CBR at minimum compaction 98% of MDD (Standard) etc. all complete as per direction of the E-I-C.	sqm	96.95
3.01.4.3	BC&SGP(450mm): Earth work in box cutting up to 450mm depth & Preparation of sub-grade by excavating road crest up to 450mm depth, removing soils to a safe distance or spreading it 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 $\pm$ 2% & compacting the 1st layer by appropriate mechanical means to attain design CBR at minimum compaction 98% of Standard proctor, 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 $\pm$ 2% and compacting the layer following the same procedure as 1st layer 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	163.12

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 free from dust, earth, other vegetable growth and foreign materials 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 MDD (Modified), etc. all complete as per direction of the E-I-C.	cum	885.73

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.02.1.2	Sand (FM 0.80) filling on the road bed in the improved sub-grade with sand free from dust, earth, other vegetable growth and foreign materials 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 MDD (Modified), etc. all complete as per direction of the E-I-C.	cum	996.32
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 and foreign materials 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 MDD (Modified), etc. all complete as per direction of the E-I-C.	cum	0.00
3.02.1.4	SB for Uni-Paver: Providing compacted Sand Bedding over the finished base course, including supplying 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, 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	2,709.94
3.02.2	PiISG: 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	92.32
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, 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 8% 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 125mm loose and Payment will be made on compacted thickness. (The rate excludes the cost of sand)	cum	96.80

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	154.82
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	309.94
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 minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (modified) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	3,540.88
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 minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (modified) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	0.00
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 minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (modified) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	0.00

District : CUMILLA, B.BARIA, CHANDPUR
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Item Code	Brief Description of Item	Unit	Rate
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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 minimum soaked CBR 35% or Design CBR at minimum compaction 98% of MDD (modified) including supplying of all materials, labourers, tools and equipment etc. all complete as per direction of the E-I-C.	cum	3,604.83
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 – 2005, (Suggested mixing ratio Brick Chips 38mm down graded 25% and 20mm down graded 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 a minimum soaked CBR 50% or Design CBR at minimum compaction 98% of MDD (Modified), including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per direction of the E-I-C.	cum	4,659.44
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 – 2005, (Suggested mixing ratio Crushed Stone 38mm down graded 25% and 20mm down graded 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 a minimum soaked CBR 50% or Design CBR at minimum compaction 98% of MDD (Modified), including supplying of all materials, their carriage, labourers tools and equipment etc. all complete as per direction of the E-I-C.	cum	0.00
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 minimum soaked CBR 30% or Design CBR at minimum compaction 98% of MDD (modified) 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	929.00
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 minimum soaked CBR 35% or Design CBR at minimum compaction 98% of MDD (modified) 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	992.95
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	8.62
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	16.62
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 & 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	16.12
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 & 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	27.00
3.04.3.1	EE(75mm): Brick on end edging (75mm across) with 1st class/picked bricks including cutting trenches true to level & 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	113.58

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3.04.3.2	EE(125mm): Brick on end edging (125mm across) with 1st class/picked bricks including cutting trenches true to level & 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	201.08

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 & specified sizes 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 down graded	cum	4,263.60
3.05.1.2	40mm down graded	cum	4,117.68
3.05.1.3	50mm down graded	cum	3,984.32
3.05.1.4	63mm down graded	cum	3,898.79
3.05.1.5	80mm down graded	cum	3,825.83
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 down graded	cum	528.94
3.05.2.2	40mm down graded	cum	423.15
3.05.2.3	50mm down graded	cum	352.63
3.05.2.4	63mm down graded	cum	317.37
3.05.2.5	80mm down graded	cum	282.10
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 & specified sizes & 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 down graded	cum	5,494.59
3.05.3.2	40mm down graded	cum	5,353.54
3.05.3.3	50mm down graded	cum	5,212.49
3.05.3.4	63mm down graded	cum	5,036.18
3.05.3.5	80mm down graded	cum	4,859.86
3.05.4.1	S&SBC(WG): Supplying and spreading 50mm down graded crusher run 1st class and Picked brick chips of LAA value not exceeding 40% including supplying of required amount of 12mm down graded 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	4,046.12
3.05.4.2	S&SSC(WG): Supplying and spreading 50mm down graded crusher run stone chips of LAA value not exceeding 35% including supplying of required amount of 12mm down graded 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	7,385.97
3.05.5	B&SCS: Labour charge for breaking and spreading the concrete slab into pieces, salvaged from existing RCC 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 down graded	cum	1,939.46
3.05.5.2	40mm down graded	cum	1,763.14

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.05.5.3	50mm down graded	cum	1,410.51
3.05.5.4	63mm down graded	cum	1,234.20
3.05.5.5	75mm down graded	cum	1,057.89
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 minimum soaked CBR 80% or Design CBR at minimum degree of compaction 98% of MDD (Modified Proctor) 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	355.24
3.05.7.1	WBMBC: Providing compacted brick aggregate base course, including supplying, spreading and compacting 50mm down graded crusher run 1st class and Picked brick chips (LAA value not exceeding 40%) including supplying of required amount of 12mm down graded 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 minimum soaked CBR 80% or Design CBR at minimum degree of compaction 98% of MDD (Modified Proctor), 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	5,459.24
3.05.7.2	WMMBC: Providing compacted brick aggregate WMM base course, including supplying, spreading and compacting 38mm down graded 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 minimum soaked CBR 80% or Design CBR at a degree of minimum compaction 98% (Modified Proctor) including supplying all materials, carriage, labors, tools & equipment etc. all complete as per direction of the E-I-C	cum	5,774.59
3.05.8.1	WBMSC: Providing compacted Stone Aggregate Base Course by supplying, spreading and compacting 50mm down graded 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 down graded 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 minimum soaked CBR 90% or Design CBR at minimum degree of compaction 98% of MDD (Modified Proctor), blinding withchoking 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	7,609.56
3.05.8.2	WMMSC: Providing compacted Stone aggregate base course by supplying, spreading and compacting 38mm down graded 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 minimum soaked CBR 90% or Design CBR at minimum degree of compaction 98% of MDD (Modified Proctor) including supplying all materials, carriage, labors, tools & equipment etc. all complete as per direction of the E-I-C.	cum	8,075.14

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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 or 80/100 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.	sqm	115.27
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 or 80/100 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.	sqm	116.24
3.06.2.1	TCHD@0.5: Providing tack coat @0.50kg/sqm with 60/70 or 80/100 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.	sqm	50.87
3.06.2.2	TCHD@0.75: Providing tack coat @0.75kg/sqm with 60/70 or 80/100 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.	sqm	73.76
3.06.2.3	TCMD@0.5: Providing tack coat @0.50kg/sqm with 60/70 or 80/100 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.	sqm	52.87
3.06.2.4	TCMD@0.75: Providing tack coat @0.75kg/sqm with 60/70 or 80/100 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.	sqm	75.76
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 – 2005, mixed with 80/100 or 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 80/100]	sqm	150.84
3.06.3.1.02	[Bitumen Grade 60/70]	sqm	154.38
3.06.3.2	15mmSC: Providing 15mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course to be prepared using 12mm down, 6mm down graded crushed stone chips & Stone Dust to comply the gradation as specified in the relevant item of Road Design Standards – 2005, mixed with 80/100 or 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].		

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3.06.3.2.01	[Bitumen Grade 80/100]	sqm	308.49
3.06.3.2.02	[Bitumen Grade 60/70]	sqm	315.27
3.06.4.1	25mmBC: Providing 25mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 16mm down graded stone-chips (LAA value not exceeding 30%) to comply the gradation as specified, mixed with heated bitumen of 80/100 or 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 in proper 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 80/100]	sqm	494.39
3.06.4.1.02	[Bitumen Grade 60/70]	sqm	503.28
3.06.4.2	25mmDC: Providing 25mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course with 16mm down graded crushed stone chips complying with the specified grading requirement of the relevant item of Road Design standards – 2005, of LAA value <=30%, water absorption not >2%, flakiness index not >35% mixed with 60/70 or 80/100 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 in proper 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 80/100]	sqm	544.71
3.06.4.2.02	[Bitumen Grade 60/70]	sqm	556.06
3.06.5.1	40mmBC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm down graded 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 in proper 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, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).	sqm	793.09

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3.06.5.2	40mmDC (BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course with 25mm down graded crushed stone chips (LAA value <= 30%) complying with the specified grading requirement of the relevant item of Road Design standards – 2005, 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 in proper 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, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).	sqm	871.06
3.06.6	50mmBC (BG-60/70): Providing 50mm thick (minimum) compacted pre-mixed bituminous carpeting to be prepared using 25mm down graded 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 in proper 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, 12mm, 6mm crushed stone chips and stone dust is suggested and proportion will have to determine by the laboratory analysis).	sqm	987.66
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 or 80/100 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, equipments 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.		
3.06.7.1	[Bitumen Grade 80/100]	cum	21,692.17
3.06.7.2	[Bitumen Grade 60/70]	cum	22,127.94

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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 $\leq 35\%$, 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, equipments 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, [Bitumen Grade 60/70] (25mm nominal size, 50-75mm thick.)	cum	20,396.61
3.06.8.2	B. For Grading -2, [Bitumen Grade 60/70] (40mm nominal size, 75-100mm thick.)	cum	20,117.25
Section-07: Concrete Pavement			
3.07.1	PS: Providing and laying polythene sheet (0.18mm thick) on prepared road surface underneath the cement concrete, etc. all complete as per specifications and direction of the Engineering-in-Charge.	sqm	16.52
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 other wise 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 contractors own cost. (Rate is excluding the cost of all reinforcement and its fabrication, admixtures and joint sealant, etc.)	cum	9,800.73
3.07.2.2	RCC-20BCCM(RW): Providing and laying reinforced, 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 other wise 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.)	cum	10,430.66

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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 (5-10 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 contractors own cost.	cum	13,958.26
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 (5-10 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 contractors own cost.	cum	15,088.21

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1	2	3	4
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 (5-10 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump	cum	16,165.44
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 (5-10 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump.		
3.07.3.6.01	Specified Comopressive Strength $f_c=30$ MPa and Mix design Comopressive Strength $f_{cr}=40$ MPa.	cum	11,191.81
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	112.14

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 $\leq 35\%$, 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	1,088.44
3.07.5	Admixture: Supplying and mixing specified type chemical admixture delivered from an authorized local agent or manufacturer, comply with the ASTM C 494 requirements, confirming 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 having and confirming plainly marked the proprietary name of the admixture, type under this specification, net weight or volume, manufacturing and expiry date, non aggressiveness to environment, aggregates and metals in concrete etc. and mixing the admixture in non prestressed cement concrete mixture in the field under the strict accordance with manufacturers recommendation and instruction, providing safety provisions in all respects etc. all complete as per instruction and approved by the E-I-C. Dose (quantity in milliliters 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 borne by the Contractor and shall be carried out prior to start the work. Note: The minimum cement specified shall not be reduced on account of the use of admixtures. Use of admixture (Type/Brand/Dosages, etc.) is subject to prior approval of The Engineer supported by appropriate test report from designated Material Testing Laboratory like BUET/CQCL, LGED or equivalent.		
3.07.5.01	WRCA(T-A): Water Reducing Chemical Admixture in concrete, complying to ASTM C 494 Type - A of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces quantity of mixing water required to produce concrete of a given consistency.	litre	173.37
3.07.5.02	RCA(T-B): Retarding Chemical Admixture in concrete, complying to ASTM C 494 Type B of approved brand/origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that retards the setting 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.	litre	166.70
3.07.5.03	ACA(T-C): Accelerating Chemical Admixture in concrete, complying to 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 accelerates the setting time and early strength developmnet of concrete.	litre	180.03
3.07.5.04	WRRCA(T-D): Water-Reducing and Retarding Chemical Admixture in concrete, complying to ASTM C 494 Type D of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency i.e. low w/c ratio and retards the setting of concrete specially for layerd, thick laid concrete etc.	litre	166.70
3.07.5.05	WRACA(T-E): 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. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency i.e. low w/c ratio and accelerates setting and early strength development of concrete.	litre	180.03
3.07.5.06	WRACA(T-F): Supply and use of water-reducing high range chemical admixture in concrete, complying to ASTM C 494 Type F of approved brand/origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency by 12 or greater (flowing concrete) and for higher strength of concrete	litre	213.37

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.07.5.07	WRACA(T-G): Supply and use of water-reducing high range and retarding chemical admixture in concrete, complying to ASTM C 494 Type G of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency by 12% or greater (flowing concrete) and retards setting of concrete.	litre	213.37
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	20.31
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	30.77
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	47.15
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	48.30
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	0.00
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	95.95
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	98.65
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	0.00
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	436.71
3.08.4.2	SBFS(FM-0.80): 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 0.80, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	437.86
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	0.00
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 (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	749.41
3.08.5.2	SHBB(FM-0.80): 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 (FM 0.80) 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	752.10

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	0.00
Section-09: Concrete Block Road			
3.09.1.1	PiCCB: Labour charge for picking up the existing CC Block (375mmX100mmX225mm) on End Edging, including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	m	41.24
3.09.1.2	PiCCB: Labour charge for picking up the existing CC Block L:1000mmXH:500mmXW:(100mm+150mm)] on End Edging, including staking the materials at a specified distance, etc. all complete as per direction of the E-I-C.	m	123.10
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, 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 and including 30mm thick coarse sand (FM 2.5) bed, filling all interstices joints with specified sand (FM=0.8), 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	1,115.01
3.09.15.02	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 25MPa	sqm	1,217.59
3.09.15.03	60mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,166.30
3.09.15.04	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,268.89
3.09.15.05	60mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,217.59
3.09.15.06	60mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	1,320.18
3.09.15.07	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,422.76
3.09.15.08	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,525.34
3.09.15.09	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,474.05
3.09.15.10	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	1,576.63
3.09.15.11	80mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 40MPa	sqm	1,525.34
3.09.15.12	80mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 40MPa	sqm	1,627.93
3.09.15.13	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 30MPa	sqm	1,730.51
3.09.15.14	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 30MPa	sqm	1,833.09
3.09.15.15	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 35MPa	sqm	1,781.80
3.09.15.16	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 35MPa	sqm	1,884.38
3.09.15.17	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 40MPa	sqm	1,833.09
3.09.15.18	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 40MPa	sqm	1,935.67
3.09.15.19	100mm Thick (Size: 222mmx110mm), Colour: Gray, Minimum Compressive Strength: 45MPa	sqm	1,986.97
3.09.15.20	100mm Thick (Size: 222mmx110mm), Colour: Red/Black/any other Suitable Colour, Minimum Compressive Strength: 45MPa	sqm	2,089.55

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.09.16	KS-30MPa(RW): Manufacturing, Supplying and Fixing of cement concrete Pre Cast kerb stone of specified size as per approved drawing and design for side of footpath/median/road island etc. using steel shutter, with 20mm downgraded Stone Chips of LAA value $\leq 30\%$, 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, 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 cutting trenches true to level & grade, removing earth, preparation kerb foundation, including carrying and placing kerb stone tightly, maintaining alignment and height, 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	13,628.36
3.09.16.2	KS-35MPa(RW): Manufacturing, Supplying and Fixing of cement concrete Pre Cast kerb stone of specified size as per approved drawing and design for side of footpath/median/road island etc. using steel shutter, with 20mm downgraded Stone Chips of LAA value $\leq 30\%$, 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, 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 cutting trenches true to level & grade, removing earth, preparation kerb foundation, including carrying and placing kerb stone tightly, maintaining alignment and height, 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	14,255.81
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 [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	6.79
3.09.2	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	412.38
3.09.3.1	ReCCB: Labour charge for Resetting the CC Block on End Edging (100mm across) with CC Block (375mmX100mmX225mm), 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	58.72
3.09.3.2	ReCCB: Labour charge for Resetting the CC Block on End Edging (Average 125mm across) with CC Block [L:1000mmXH:500mmXW:(100mm+150mm)], 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	187.78
3.09.4	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	1,057.30
3.09.5	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 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 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.		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.09.5.1	PCC Block Size: 400mmX200mmX150mm	each	119.11
3.09.5.2	PCC Block Size: 375mmX100mmX225mm	each	87.52
3.09.5.3	PCC Block Size: 1000mmX500mmX(100+150)mm	each	619.93
3.09.6.1	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	302.31
3.09.6.2	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	807.70
3.09.7	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].		
3.09.7.1	PCC Block Size: 375mmX225mmX150mm	each	159.68
3.09.8	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	1,947.29
3.09.9	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	1,979.69
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	21.99
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	31.43

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Item Code	Brief Description of Item	Unit	Rate
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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	5.76
3.10.03	25mmSGSS: Providing 25mm thick (average) grouting with 20mm down graded broken stone shingles metal (LAA value not exceeding 35) and using 60/70 or 80/100 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 metal @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.	sqm	404.07
3.10.04.1	50mmSGBC: Providing 50mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 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.	sqm	615.78
3.10.04.2	50mmSGSS: Providing 50mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 or 80/100 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.	sqm	714.80
3.10.04.3	50mmSGSC: Providing 50mm thick (average) grouting with broken stone metal (LAA value not exceeding 35) and using 60/70 or 80/100 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 metal, 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.	sqm	689.41
3.10.05.1	75mmSGBC: Providing 75mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 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.	sqm	898.46

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3.10.05.2	75mmSGSS: Providing 75mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 or 80/100 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.	sqm	961.03
3.10.05.3	75mmSGSC: Providing 75mm thick (average) grouting with Stone metal (LAA value not exceeding 35) and using 60/70 or 80/100 penetration grade straight run bitumen conforming to the requirements of ASTM/ AASHTO, laying and spreading Stone metal 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.	sqm	895.00
3.10.06	100mmSGBC: Providing 100mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 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.	sqm	1,088.06
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	928.95
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	1,205.39
3.10.08.1	CS@0.75MD: Providing a single coat chip sealing over a low cracked road surface, using 60/70 or 80/100 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.	sqm	114.07

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.10.08.2	CS@1.00MD: Providing single coat chip sealing over a moderate cracked road surface, using 60/70 or 80/100 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.	sqm	142.53
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	190.04
3.10.09	12mmSC: Providing 12mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course to be prepared using 10mm down, 6mm down graded crushed stone chips & Stone Dust to comply the gradation as specified in the relevant item of Road Design Standards – 2005, mixed with 60/70 (Preferable) or 80/100 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 below 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 80/100]	sqm	256.95
3.10.09.02	[Bitumen Grade 60/70]	sqm	262.38
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	147.46
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	62.78

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.10.11.01	CCRM-30SCCM: Providing and laying 12BWG 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 12 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 12 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.)	cum	15,332.44
3.10.12.01	12 BWG (WM): Supplying and laying 50mm rhombus 12 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	182.60

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 (suggested 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).	cum	8,139.08
3.11.02.1	125mmBW(1:3): 125mm thick brick work with 1st class brick in specified cement mortar (1:3) in foundation with sand of minimum FM 1.20 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, making bond with connected walls, including necessary scaffolding, raking out joints, cleaning and soaking the bricks 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.	sqm	1,157.98
3.11.02.2	BW(1:3): Brick works with 1st class bricks in cement mortar (1:3) in foundation and wall with sand of minimum FM 1.20 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N, including filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks 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.	cum	8,409.69
3.11.03	FP(1:2): Flush pointing to brick wall with sand of minimum FM 1.20 and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N mortar (1:2), including raking out the joints, and necessary scaffolding, curing for the requisite period etc. all complete in all respect as per direction of the Engineer-in-charge.	sqm	163.69

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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-III/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 hopper 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	cum	11,721.29
3.11.04.2	Vertical Wall, Grade Beams, etc.	cum	12,894.40
3.11.05	Supplying and fabrication of Ribbed or deformed bar reinforcement conforming to BDS ISO 6935-2:2006 (or standard subsequently released from BSTI) 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, tying with 22 BWG black annealed binding wire 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. Reinforcement shall be measured only in lengths of bars as actually placed in position on standard weight i.e. 7850 kg/m ³ (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, wastages, binding wire, concrete cover blocks etc. as the cost of these is included in the unit rate.		
3.11.05.1	RB 300: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, f_y (ReH) = 300 MPa, but the actual yield strength based on mill tests does not exceed f_y by more than the 125 MPa and the ratio of actual ultimate strength, f_u (Re) to actual tensile yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.	kg	89.63
3.11.05.2	RB 400 / 400W: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield stress, f_y (ReH) = 400 MPa, but the actual yield strength based on mill tests does not exceed f_y by more than the 125 MPa, the ratio of actual ultimate strength, f_u (Re) to actual tensile yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively.	kg	101.40
3.11.05.3	Grade 420 (B420DWR): Ribbed or Deformed bar produced and marked as per ISO 6935-2:2015/ ASTM A706M - 16 with minimum yield strength, f_y (ReH) = 420 MPa but f_y (ReH) not exceeding 540 MPa, the ratio of ultimate tensile strength, f_u (Rm) to actual yield strength, f_y (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.	kg	100.74
3.11.06	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 responsible for any irregularities by the party regarding dumping of the debris. (Measurement will be given for the actual pile head volume to be broken).	cum	6,774.32

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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	278.26
3.11.07.2	Cost of pile driving (Size-150mm to 200mmx200mm) depth up to 6 m	m	399.91
3.11.07.3	Cost of pile driving (Size-150mm to 200mmx200mm) depth 6m to 12m and above	m	563.63
3.11.07.4	Cost of pile driving (Size-200mm to 250mmx250mm) depth upto 6m	m	462.92
3.11.07.5	Cost of pile driving (Size-200mm to 250mmx250mm) depth 6m to 12m and above	m	856.11
3.11.07.6	Cost of pile driving (Size-250mm to 300mmx300mm) depth upto 6m	m	569.73
3.11.07.7	Cost of pile driving (Size-250mm to 300mmx300mm) depth 6m to 12m and above	m	1,198.80
3.11.07.8	Cost of pile driving (Size-300mm to 350mmx350mm) depth upto 6m	m	856.11
3.11.07.9	Cost of pile driving (Size-300mm to 350mmx350mm) depth 6m to 12m and above	m	1,709.90
3.11.08	CCBSS-10(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 40 mm down well graded shingles to attain a minimum 28 days cylinder strength of 10.00 Mpa (suggested mix proportion 1:3:6), 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, labour, 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.		
3.11.08.01	Size 500mmX500mmX300mm	each	719.69
3.11.08.02	Size 400mmX400mmX300mm	each	466.75
3.11.08.03	Size 300mmX300mmX300mm	each	273.97
3.11.08.04	Size 500mmX500mmX200mm	each	497.14
3.11.08.05	Size 500mmX500mmX150mm	each	373.70
3.11.08.06	Size 400mmX400mmX150mm	each	238.98
3.11.08.07	Size 300mmX300mmX150mm	each	137.03
3.11.08.08	Size 250mmX250mmX250mm	each	159.52
3.11.08.09	Size 400mmX400mmX100mm	each	162.33
3.11.08.10	Size 375mmX225mmX150mm	each	128.39
3.11.08.11	Size 400mmX400mmX200mm	each	312.99
3.11.08.12	Size 300mmX300mmX200mm	each	176.05
3.11.08.13	Size 300mmX300mmX100mm	each	88.04
3.11.08.14	Size 250mmX250mmX150mm	each	91.71
3.11.09	LC-CCB(PW): Labour charge for laying single layer CC Block of different sizes on slope of embankment, 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, including carrying CC blocks, supplying and filling the interstices tightly with local sand (FM - 0.5), 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	1,130.81

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 proportion 1:2:4), including grading, washings shingles, shuttering, mixing in standard 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.)	sqm	1,229.33
3.11.11	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)		
3.11.11.1	Grade-I : Specification of which Mass (minimum) =170 gm/m ² , Thickness under pressure 2kpa (minimum)=1.5mm, Strip tensile strength (minimum)=12.0kn/m, Elongation (minimum) =35%, Grab tensile strength (minimum)=700 N, CBR puncture resistance (minimum)=2000 N, Effective opening size (Maximum) = 0.10mm, Permeability vertical under 2 kpa pressure h is 100mm (minimum)=0.003 m/s and Permeability horizontal under 2 kpa pressure (minimum)=0.004 m/s.	sqm	165.03
3.11.11.2	Grade-II : Specification of which Mass (minimum)=190 gm/m ² , Thickness under pressure 2kpa (minimum)=1.8mm, Strip tensile strength (minimum)=14.0 kn/m, Elongation (minimum)=35%, Grab tensile strength (minimum)=750 N, CBR puncture resistance (minimum)=2200 N, Effective opening size (Maximum)=0.10mm, Permeability vertical under 2 kpa pressure h is 100mm (minimum)=0.003 m/s and Permeability horizontal under 2 kpa pressure (minimum)=0.004 m/s.	sqm	165.03
3.11.11.3	Grade-III : Specification of which Mass (minimum)=240 gm/m ² , Thickness under pressure 2kpa (minimum)=2.0mm, Strip tensile strength (minimum)=18.0 kn/m, Elongation (minimum)=35%, Grab tensile strength (minimum)=1000 N, CBR puncture resistance (minimum)=2700 N, Effective opening size (Maximum)=0.09mm, Permeability vertical under 2 kpa pressure h is 100mm (minimum)=0.003 m/s and Permeability horizontal under 2 kpa pressure (minimum)=0.004 m/s.	sqm	171.89
3.11.11.4	Grade-IV : Specification of which Mass (minimum)=310 gm/m ² , Thickness under pressure 2kpa (minimum)=2.6mm, Strip tensile strength (minimum)=22.0 kn/m, Elongation (minimum)=40%, Grab tensile strength (minimum)=1300 N, CBR puncture resistance (minimum)=3700 N, Effective opening size (Maximum) = 0.09mm, Permeability vertical under 2 kpa pressure h is 100mm (minimum)=0.003 m/s and Permeability horizontal under 2 kpa pressure (minimum)=0.004 m/s.	sqm	185.61
3.11.11.5	Grade-V : Specification of which Mass (minimum)=365 gm/m ² , Thickness under pressure 2kpa (minimum)=3.0mm, Strip tensile strength (minimum)=25.0 kn/m, Elongation (minimum)=40%, Grab tensile strength (minimum)=1500 N, CBR puncture resistance (minimum)=4000 N, Effective opening size (Maximum) = 0.08mm, Permeability vertical under 2 kpa pressure h is 100mm (minimum) = 0.003 m/s and Permeability horizontal under 2 kpa pressure (minimum) = 0.004 m/s.	sqm	206.19
3.11.12	LC-Geo-Tex: Labour charge for 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 for effective erosion protection in hydraulic structures/river training works including local handling, placing in proper position, leveling, dressing, maintaining slope, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.	sqm	25.52

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.11.13	RCC(P+W)BC-PW: Construction and Installing in position palisading work as per standard drawing enumerated in Appendix-6 (type designs for protective works) using Pre-Cast RCC Post & Cast-In-Situ RCC Wall with 02 (two) meter long (size 150mmX150mm) pre-cast RCC (1:1.5:3) post made of 20mm down graded brick chips to be driven by suitable monkey/drop hammer in full length of the post @ 1.0meter c/c into the ground laying on proper alignment, breaking head (150mm length) of all post carefully, scrapping and removing concrete from Steel/MS rod, including in-situ casting of 150mm X 150mm Grade beam and 100mm thick and 1 meter high RCC vertical wall along the protective work using 1st class bricks/ picked 20mm down graded bricks chips, sand (minimum FM 1.80) and cement conforming to BDS EN 197-1 : 2003 CEM-II/A-M 42.5N to attain a minimum 28 days ultimate cylinder crushing 20.00 Mpa (suggested mix proportion 1:1.5:3), supplying, fabricating and binding of M. S. High strength deformed bar of required size, length and spacing 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 including reinforcement, its fabrication, shuttering, casting, curing for 28 days, driving of the post and all other incidental charges, etc.)	m	5,385.67
3.11.14	RCC(P+BW)-PW: Construction and Installing in position palisading work as per standard drawing enumerated in Appendix-6 (type designs for protective works) with 250mm thick Brick Masonry work & pre cast RCC Post of 03 (three) meter long (size 150mmX150mm) pre-cast RCC (1:1.5:3) post made by 20mm down graded brick chips to be driven by suitable monkey/drop hammer in 2/3rd of its total length @ 1 meter c/c into the ground laying on proper alignment, constructing of 250mm thick and 1 meter high vertical wall along the protective work using 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 300mm depth foundation trenches for brick wall and laying one layer polythene sheet, constructing 50mm thick cement concrete (1:3:6) on it & below the 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 including reinforcement, its fabrication, shuttering, casting, curing for 28 days, driving of the post and all other incidental charges, etc.)	m	5,377.95
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.	m	3,210.22
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 – 2005, 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.	m	5,173.44
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	844.32
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	1,415.13
3.11.17	BP(Ø75mm): Supplying of straight & strong bamboo posts of minimum 75mm dia (at all sections) and driving the same vertically in the ground upto required depth by any means, all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. The rate is for single pin. (Total length embedded and above ground shall be considered towards payment)	m	68.54

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.11.18	CHB-PW(Ø75mm): Closed hole bamboo palisading with matured borak bamboo of minimum diameter of 75mm including driving at least half of its length below G.L. including carrying of all materials, fitting fixing with half split borak bamboo runners @450mm c/c horizontally with iron nails, GI wire etc. with double tarza etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Payment will be made for the work above ground water levels).	sqm	1,453.21
3.11.19.1	BDS-PW: Providing Palisading with Bitumen drum sheet walling tied with 20 gauge G.I. wire, fixing the same with already driven bamboo posts with half split Borrak bamboo (75mm to 100mm dia) runners @450mm c/c horizontally with iron nail, G.I wire etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. (Cost excluded the bamboo posts)	sqm	715.52
3.11.19.2	BDS-PW(Ø150mmGP): Providing Palisading with bitumen drum sheet fitted with gazari post 150mm minimum dia, 0.90m c/c to be driven half of the total length of the post Drum sheet to be fitted with Shisu/Mehagoni wooden batten 50mmx50mm size at 0.60 meter c/c supplying and fixing with 150mm dia gazari post crosses 1.80 meter c/c fixed with necessary nuts and bolts at the slope side of palisading and tied up the palisading work by GI wire No. 10 with gazari post 150mm dia and 1.8 meter c/c driven at the opposite direction up to 1.20 meter depth including supplying all necessary nails and spikes etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge.(Payment will be made for the work above ground levels.)	sqm	1,655.48
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	2,146.20
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	1,289.27
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	147.39
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	176.48
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	198.62
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	313.11
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	325.59

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.11.22.06	Geo-Textile Bag: Empty Bag Size: 1300mm x 1050mm, Fill Volume: 0.1664 cum & Weight: 250 Kg, [Geo-Textile Grade: Grade-V-DF-60-3.0mm thick]	bag	442.23
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	65.53
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-shaped 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 $\geq 85 \times 32$, Width(m) ≥ 1 , Mass per unit area (gsm) = $627 \pm 15\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 20\%$, AOS (O95) (μm) ≤ 150 , Vertical Permeability (m/sec) $\geq 1.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 6.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 950 \times 230$, Grab Tensile Elongation (%) MD x CD $\leq 35 \times 45$, CBR Puncture Resistance (N) ≥ 2500 , Wide Width Tensile Strength (KN/m) MD x CD $\geq 20 \times 10$, Wide Width Elongation (%) MD x CD $\leq 12 \times 10$.	sqm	233.05
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-shaped 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.		
3.11.25.01	JGT_HSM-1: Applicable for Moderate slope (≤ 35 degree) & annual rainfall $\leq 2000\text{mm}$. This type of JGT shall have the following requirements. Ends x Picks /dm $\geq 6.5 \times 4.5$, Width(m) = 1.22, Mass per unit area (gsm) = $500 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $4.5 \pm 10\%$, Water Holding Capacity (% by weight) ≥ 400 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 6.5 \times 6.0$, Wide Width Elongation (%) MD x CD $\leq 14.0 \times 14.0$.	sqm	65.48
3.11.25.02	JGT_HSM-2: Applicable for Moderate slope (≤ 35 degree) & annual rainfall $\geq 2000\text{mm}$ and steep slope (> 35 degree to ≤ 45 degree) & annual rainfall $\leq 2000\text{mm}$. This type of JGT shall have the following requirements. Ends x Picks /dm $\geq 8 \times 7$, Width(m) = 1.22, Mass per unit area (gsm) = $600 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $5.5 \pm 10\%$, Water Holding Capacity (% by weight) ≥ 400 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 12.0 \times 6.0$, Wide Width Elongation (%) MD x CD $\leq 14.0 \times 14.0$.	sqm	70.05
3.11.25.03	JGT_HSM-3: Applicable for steep slope (> 35 degree to ≤ 45 degree) & annual rainfall $> 2000\text{mm}$. This type of JGT shall have the following requirements. Ends x Picks /dm $\geq 8 \times 8$, Width(m) = 1.22, Mass per unit area (gsm) = $700 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $5.5 \pm 10\%$, Water Holding Capacity (% by weight) ≥ 400 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 14.0 \times 7.0$, Wide Width Elongation (%) MD x CD $\leq 14.0 \times 14.0$.	sqm	74.62
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-shaped 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.		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 $\geq 85 \times 32$, Width(m) ≥ 1 , Mass per unit area (gsm) = $627 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 10\%$, AOS (O95) (μm) ≤ 450 , Vertical Permeability (m/sec) $\geq 3.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 7.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 850 \times 200$, Grab Tensile Elongation (%) MD x CD $\leq 30 \times 35$, CBR Puncture Resistance (N) ≥ 2000 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 20 \times 10$, Wide Width Elongation (%) MD x CD $\leq 12 \times 10$.	sqm	172.11
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 $\geq 94 \times 39$, Width(m) ≥ 1 , Mass per unit area (gsm) = $724 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 10\%$, AOS (O95) (μm) ≤ 300 , Vertical Permeability (m/sec) $\geq 2.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 6.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 925 \times 425$, Grab Tensile Elongation (%) MD x CD $\leq 35 \times 40$, CBR Puncture Resistance (N) ≥ 2150 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 25 \times 10$, Wide Width Elongation (%) MD x CD $\leq 15 \times 12$.	sqm	199.53
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	4,992.55

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	3,325.43

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	6,340.78
3.12.02	RCC-Gpost: Providing, 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 300mm 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	1,546.75
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 (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	3,690.31
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	5,818.69
3.12.04.2	600mm circular with 600mm X 202mm supplementary Plate (For Compulsory Sign)	each	6,128.54
3.12.04.3	435mm X 500mm Square with 435mm X 202mm supplementary Plate (For Informative Sign)	each	5,636.40
3.12.04.4	810mm X 480mm Rectangular (For Informative Sign)	each	5,850.62

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
3.12.04.5	600mm X 605mm Rectangular (For Chevron Sign)	each	5,114.46
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	219.40
3.12.05.2	Two coats for old concrete surface and steel surface.	sqm	130.40
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	330.96
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	389.86
3.12.07.2	Two coats on old surface	sqm	317.99
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	1,030.57
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	913.82
3.12.09	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	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	2,964.00
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	642.12

Chapter 4

Bridge Works

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

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 stacking 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	2,078.84
4.01.01.01.02	Case II: By Manual Means submersed in water	cum	Add +50.00% with Item No 4.01.01.01.01
4.01.01.01.03	Case III: By Mechanical Means	cum	1,211.98
4.01.01.01.04	Case IV: By Mechanical Means submersed in water	cum	Add +50.00% with Item No 4.01.01.01.03
4.01.01.02	PCC Works		
4.01.01.02.01	Case I: By Manual Means	cum	735.13
4.01.01.02.02	Case II: By Manual Means submersed in water	cum	Add +50.00% with Item No 4.01.01.02.01
4.01.01.02.03	Case III: By Mechanical Means	cum	551.42
4.01.01.02.04	Case IV: By Mechanical Means submersed in water	cum	Add +50.00% with Item No 4.01.01.02.03
4.01.01.03	Brick Works		
4.01.01.03.01	Case I :By Manual/ Mechanical Means	cum	461.82
4.01.01.03.02	Case II :By Manual/ Mechanical Means submersed in water	cum	Add +50.00% with Item No 4.01.01.03.01
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	2,742.04
4.01.01.04.02	Case II: Excluding dismembering	MT	2,094.23
4.01.01.05	Wood Work wrought framed and fixed in frames of trusses upto a height of 10 m above plinth level	cum	988.80
4.01.01.06	Dismantling wooden bullah in posts and structs	m	19.11
4.01.01.07	Scrapping of Bricks dismantled from Brick Work including Stacking	1000 nos.	2,252.98
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	334.16
4.01.01.08.02	For 600mm to 900mm diameter	m	452.01
4.01.01.08.03	For above 900mm diameter	m	773.86
4.01.02	Removal of telephone/ Electric poles including excavation and dismantling of foundation concrete and lines under the supervision of concerned department, disposal with all lifts and up to a lead of 1km and stacking the serviceable and unserviceable material separately.	LS	
4.01.03	Dismantling of CI water pipe line of various diameter under supervision of concerned department including disposal with all lifts and lead up to 1Km and stacking of serviceable material and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	LS	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.01.04	Removal of cement concrete pipe of sewer gutter 1500 mm dia under the supervision of concerned department including disposal with all lifts and up to a lead of 1Km and stacking of serviceable and unserviceable material separately but excluding earth excavation and dismantling of masonry works.	LS	
4.01.05	Providing and maintaining semi pucca site office (Appendix 5) with necessary furniture, sanitary & electrical/ power facilities, water supply arrangement, office and survey equipment for the use of the Engineer and his staff, all complete including removal of structures and restoration of the site on completion of the work. The contractor shall submit the detailed plan and drawing of the site office for approval of the engineer. The site office should be provided with sufficient natural light, heat protecting ceiling, dam proofing etc. as per direction of E-I-C. All materials, equipment and plant, furniture, fittings recovered from dismantling the office and removing access road will be the property of the contractor upon completion of the work. The contractor will responsible for maintaining the facilities of site office in good condition throughout the contract period and payment of this item shall be made only with the final bill.		
4.01.05.01	Area of field office: 30 sqm	LS	
4.01.05.02	Area of field office: 50 sqm	LS	
4.01.05.03	Area of field office: 80 sqm	LS	
4.01.06	Videography: Providing and carrying out video shooting 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.		
4.01.06.01	Within 50 Kilometer from district head quarter for full day	day	3,686.57
4.01.06.02	Beyond 50 Kilometer from district head quarter for full day	day	4,007.14
4.01.06.03	Work upto 5 hours per day only	day	2,396.27
4.01.07	Photography: Shooting of still photographs by professional 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	461.62
4.01.08	As-Built Drawings: Providing 3 full sets of as-built drawings of the completed works subject to Engineer's approval in AutoCAD software in standard drawing paper. The As-Built Drawing shall clearly show the lines and dimensions of the permanent construction actually made based on the changes to the original design from time to time as ordered by the Engineer or proposed by the Contractor and approved by the Engineer. One set of as-built drawings shall be considered for final measurement and payment. The soft copy of the as-built drawings must be submitted to the Design Unit, LGED for future reference. If the contractor does not supply the as-built drawings by the date stated in the Particular Conditions of Contract (PCC), or they do not receive the Engineer's approval, the Engineer shall withhold the amount stated in the PCC from the payment due to the contractor.	per scheme	16,926.17
4.01.09	Project Profile Signboard: Providing and maintenance one 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 & 20mm 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 completion 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	15,255.19
4.01.10	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	1,104.09
4.01.11	Overall environment management in addition to the clause 27 & 29 of GCC to the entire satisfaction of Engineer-in-charge		

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	12,822.86
4.01.11.02	Dust suppression measures	km	2,564.57
4.01.11.03	Air Quality: Periodic air quality monitoring during construction stage at construction sites, batching plants, crusher plants (if specifically established for Project), at major settlement areas along project site. The parameters to be monitored are suspended particulate matter (SPM), respirable particulate matter (RPM), sulfur dioxide (SO ₂) and oxides of nitrogen (NO _x), carbon monoxide (CO), Lead (Pb). Each monitoring schedule shall be over a duration of 24 hours (in 8 hour shifts) for three seasons per year. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]	LS	
4.01.11.04	Water Quality: Water quality monitoring during construction phase at locations. The sampling shall be carried out for three seasons per year and cover all parameters as per WHO's Guidelines for Drinking-Water Quality including heavy metals. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]	LS	
4.01.11.05	Noise Quality: Noise quality monitoring at specified silent receptors along Project Road, at construction camp sites, batching plants, crusher plants (if specifically established for Project), and at major settlement areas along project road. Each monitoring schedule shall be over a duration of 12hours (6AM to 6PM) for three seasons per year. [As per the Environmental monitoring plan referred in the Environment Impact Assessment]	LS	
4.01.12	Providing and maintaining adequate portable water supply, sanitation, cleanliness facilities at camp site and work site to the entire satisfaction of Engineer-in-charge.		
4.01.12.01	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	12,822.86
4.01.12.02	Portable Water Kiosk: Providing and maintaining portable water kiosk at work site as per drawing, specifications and direction of Engineer-in-charge.	LS	
4.01.12.03	Liter Bins: Providing and fixing of liter bins complete as per Manufacturer drawing and specifications and approved by the Engineer-in-charge.	LS	

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 on grids 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	35,262.86
4.02.01.02	For catchment area less then 1.25 to 2.50 sq. Km.	each	70,525.71
4.02.01.03	For catchment area beyond then 2.50 sq. Km.	each	98,736.00
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	21,157.71
4.02.02.02	For double lane road	km	27,505.03

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.02.02.03	Beyond the double lane	km	33,852.34
4.02.03	Sub-soil investigation at the actual locations of each abutment and pier positions in accordance with the specifications of ASTM D 1586 and D 1587. The bore holes shall have a minimum diameter of 100mm and shall be lined throughout and shall be minimum 30m to 45m deep or to a depth as specified in the ASTM/ AASHTO or as directed by the E-I-C from the existing GL and taking all cautions and steps to collect the disturbed and undisturbed samples and making the bore holes. The item is inclusive of mobilization & demobilization, proper method of borings, arrangement of boat/barge all cost of materials, labourers, field and laboratory tests including report and records. (The Testing Party will be selected taking prior approval of Procuring Entity)		
4.02.03.01	Test on ground surface	LS	
4.02.03.02	Test under water	LS	
4.02.03.03	Test under water for flashy river with flow velocity > 1m/s	LS	
4.02.04	Conducting Electronic Cone Penetration Test with pore pressure measurement, dissipation test as per ASTM D 5778 method upto 50m depth to measure friction angle, undrained shear strength, tip resistance, skin friction, Relative density, pore pressure etc. (The Testing Party will be selected taking prior approval of Procuring Entity)		
4.02.04.01	Test on ground surface	LS	
4.02.04.02	Test under water	LS	
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	3,936.36
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	1,740.70
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	158.75
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	101,749.37
4.03.04.02	Chittagong Silkrai	cum	131,613.81
4.03.04.03	Sundari/ Garjan	cum	105,339.77
4.03.04.04	Shisu/ Mehagoni	cum	95,402.06
4.03.04.05	Shal	cum	114,944.09
4.03.04.06	Babla	cum	72,628.66
4.03.05	Construction of temporary diversion road of minimum width 4.8m on detour with arranged earth, protected with bamboo palisading if necessary, compacting the earth, keeping provision of drainage facilities with providing RCC pipe of required size, nos. and length, leveling, dressing the road surface for smoothly plying vehicle & maintaining the same till completion of bridges/ culvert construction including all materials labour and removal of the same after construction of bridge/ culvert all complete as per direction of the E-I-C.		
4.03.05.01	Road Surface: Earthen	LS	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.03.05.02	Road Surface: 3.7m HBB pavement over BFS & 150mm ISG	LS	
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	7,705.93
4.04.01.02	Double single Bailey Bridge or Acrow panel.	m	9,049.84
4.04.01.03	Calender Hamilton truss bridge	m	37,127.72
4.04.01.04	Indian quadricon bridge	m	30,208.65
4.04.01.05	UCB and Chinese truss bridge	m	44,931.63
4.04.02	PSB-LD: Labour charge for delauching 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	5,498.36
4.04.02.02	Double single Bailey Bridge or Acrow panel bridge.	m	6,599.82
4.04.02.03	Calender Hamilton truss bridge.	m	27,166.44
4.04.02.04	Indian quadricon bridge	m	21,893.98
4.04.02.05	UCB and Chinese truss bridge	m	32,386.65
4.04.03	Supply and installation of steel pontoon of size 7.20mx4.00mx0.915m with plates (4mm thick), angles, flat bars, etc. shall be of steel of shipbuilding quality, hand capstan, hosting system pulley, bollards, winch, counter weight, manhole, CI roof, deck fittings, ramps, provision of inside inspection and carry out repair work in case of necessity, provision of de-watering, appropriate anchorage, steel fabrication, gas cutting, welding, paints (paints shall be used of BERGER Robbialac marine quality paints. Scrapping the entire steel surface shall be done before painting. Two coats of black bituminous paints to be used inside the pontoon and out side level including ramp) and other required accessories complete as per design, drawings, specifications and direction of the E-I-C. (Rate shall include all materials, labour, tools, equipment, plants, accessories, transportation, all taxes, VATs. charges, profits and maintenance for one year)	LS	
4.04.04	Supply and installation of steel pontoon of size 18.00mx8.00mx1.00m with plates (8mm thick), angles, flat bars, etc. shall be of steel of shipbuilding quality, hand capstan, hosting system pulley, bollards, winch, counter weight, manhole, CI roof, deck fittings, ramps, provision of inside inspection and carry out repair work in case of necessity, provision of de-watering, appropriate anchorage, steel fabrication, gas cutting, welding, paints (paints shall be used of BERGER Robbialac marine quality paints. Scrapping the entire steel surface shall be done before painting. Two coats of black bituminous paints to be used inside the pontoon and out side level including ramp) and other required accessories complete as per design, drawings, specifications and direction of the E-I-C. (Rate shall include all materials, labour, tools, equipment, plants, accessories, transportation, all taxes, VATs. charges, profits and maintenance for one year)	LS	
4.04.05	IB: Construction 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	4,481.59
4.04.05.01.02	IB-SCIS_450: For 450mm diameter, Weight of each shoe should be at least 70 kg	each	6,904.34
4.04.05.01.03	IB-SCIS_600: For 600mm diameter, Weight of each shoe should be at least 90 kg	each	8,840.08
4.04.05.01.04	IB-SCIS_750: For 750mm diameter, Weight of each shoe should be at least 135 kg	each	13,260.12
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	2,269.65

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

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4.04.05.02.02	IB-SCIC_DH: CI Cap (Double Headed)	each	2,619.71
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	122.76
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	103.22
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	108.67
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	523.17
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	1,002.28
4.04.05.07.02	IB-LD_450: For 450mm dia CI shoe	m	1,107.89
4.04.05.07.03	IB-LD_600: For 600mm dia CI shoe	m	1,239.00
4.04.05.07.04	IB-LD_750: For 750mm dia CI shoe	m	1,500.27
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	707.82
4.04.05.08.02	IB-LT_450: For 450mm dia CI shoe	m	907.86
4.04.05.08.03	IB-LT_600: For 600mm dia CI shoe	m	1,107.89
4.04.05.08.04	IB-LT_750: For 750mm dia CI shoe	m	1,346.40
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	14.11
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	9,697.53
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	8,008.40
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	6,879.47
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	5,867.48
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	4,294.69
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	3,418.02
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	2,289.09
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	1,277.10
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	3,317.26
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	2,694.64
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	1,667.87

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1	2	3	4
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	1,007.95
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 supervisor. [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	255.96
4.04.06	SSW_SF: Supply and fabrication of Structural steel work at fabricators workshop comprising of Main Girders, Cross Girders, Connecting plates, stringer, stiffening plates etc. from steel plates and structural steel of specified grades as per approved drawing including straightening, descaling, degreasing, cutting to size and shape, drilling, welding and grinding, supply of all MS/HTS shop or site bolts, nuts & washers, holding down bolts and nuts etc., trial assembling at workshop, one priming coat of shop paint with red oxide paint conforming to ASTM D83 with all labour, material, cost of paints, consumables, stacking in protected condition etc. complete as per specification and direction of E-I-C. [Carriage cost from fabricator work shop to actual bridge site will be paid separately]	kg	155.76
4.04.07	SSW_DAE: Taking delivery of fabricated steelwork from stacks at site as necessary, 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 fasteners. 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 complete as per specification and as directed by the E-I-C. Contractor have to submit assembling and erection at site including labour component, erection cum dismantling of staging, scaffolding, falsework etc. complete. A full proof method statement of erection programme at site has to be submitted and get approved before starting the erection program.	kg	21.17
4.04.08	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.		
4.04.08.01	TSB_50: Within 50km of Stack-yard/ source to site	MT	1,429.78
4.04.08.02	TSB_50+: Additional charge Beyond 50km of Stack-yard/ source to site	MT-Km	5.95

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	205.01
4.05.01.01.02	For depth 3m to 6m	cum	235.78
4.05.01.01.03	For depth above 6m	cum	389.65
4.05.01.02	Earth work in Ordinary Soil by Mechanical Means (Hydraulic Excavator) for an initial lead of 30m		
4.05.01.02.01	For depth up to 3m	cum	84.93
4.05.01.02.02	For depth 3m to 6m	cum	95.44
4.05.01.02.03	For depth above 6m	cum	108.68

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	266.56
4.05.01.03.02	For depth 3m to 6m	cum	358.88
4.05.01.03.03	For depth above 6m	cum	420.43
4.05.01.04	Earth work Rocky, gravelly, slushy or organic type Soil by Mechanical Means (Hydraulic Excavator) for an initial lead of 30m		
4.05.01.04.01	For depth up to 3m	cum	93.41
4.05.01.04.02	For depth 3m to 6m	cum	106.37
4.05.01.04.03	For depth above 6m	cum	122.37
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	48.91
4.05.02.02	Lead 500m to 1km	cum	53.53
4.05.02.03	Lead 1km to 2km	cum	62.76
4.05.02.04	Lead 2km to 3km	cum	71.99
4.05.02.05	Lead 3km to 4km	cum	81.22
4.05.02.06	Lead 4km to 5km	cum	90.45
4.05.02.07	Lead above 5km	cum	99.69
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 bund 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. No pumping or bailing will be permitted during the placing of concrete.	LS	
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 structures are to be completely removed on completion of the main component of the structure.		
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, tarja, dram sheet, polythene sheet, soil filled geobag in the outer side and driving same length bullah driving at 0.75m c/c with drum sheet, tarja, wooden bracing with 50mm x 50mm at 600mm c/c vertically, cross bracing @ 1500mm c/c, bailing out of standing water from inner portion of ring etc. [For depth of standing water: Up to 2m]	m	34,704.93
4.05.04.02	RB_2+: For 3m wide & 3m high earthen ring bundh constructed by driving 2/3rd part of 8m long wooden bullah at 500mm c/c, tarja, dram sheet, polythene sheet, soil filled geobag in the outer side and driving same length bullah driving at 0.75m c/c with drum sheet, tarja, wooden bracing with 50mm x 50mm at 600mm c/c vertically, cross bracing @ 1500mm c/c, bailing out of standing water from inner portion of ring etc. [For Depth of standing water: 2m to 3m]	m	42,991.91

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.05.04.03	RB_O: Under any other circumstances	LS	
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	162,307.88
4.05.05.01.02	For 3000mm x 7200mm wells	each	178,381.33
4.05.05.01.03	For 3600mm x 7200mm wells	each	180,247.06
4.05.05.01.04	For 3000mm x 8100mm wells	each	189,076.88
4.05.05.01.05	For 3600mm x 8100mm wells	each	192,948.10
4.05.05.01.06	For 3300mm x 8400mm wells	each	194,803.56
4.05.05.01.07	For 3900mm x 7800mm wells	each	196,111.49
4.05.05.01.08	For 4800mm x 7800mm wells	each	197,966.96
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	Add +8.00% with Item No 4.05.05.01.01
4.05.05.02.02	For 3000mm x 7200mm wells	each	Add +14.00% with Item No 4.05.05.01.02
4.05.05.02.03	For 3600mm x 7200mm wells	each	Add +15.00% with Item No 4.05.05.01.03
4.05.05.02.04	For 3000mm x 8100mm wells	each	Add +15.00% with Item No 4.05.05.01.04
4.05.05.02.05	For 3600mm x 8100mm wells	each	Add +15.00% with Item No 4.05.05.01.05
4.05.05.02.06	For 3300mm x 8400mm wells	each	Add +15.00% with Item No 4.05.05.01.06
4.05.05.02.07	For 3900mm x 7800mm wells	each	Add +15.00% with Item No 4.05.05.01.07
4.05.05.02.08	For 4800mm x 7800mm wells	each	Add +16.00% with Item No 4.05.05.01.08
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	Add +16.00% with Item No 4.05.05.01.01
4.05.05.03.02	For 3000mm x 7200mm wells	each	Add +17.00% with Item No 4.05.05.01.02
4.05.05.03.03	For 3600mm x 7200mm wells	each	Add +18.00% with Item No 4.05.05.01.03
4.05.05.03.04	For 3000mm x 8100mm wells	each	Add +18.00% with Item No 4.05.05.01.04
4.05.05.03.05	For 3600mm x 8100mm wells	each	Add +19.00% with Item No 4.05.05.01.05
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	185,048.98
4.05.06.01.02	Size of Island: 11m x 18m	each	Add +12.00% with Item No 4.05.06.01.01

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4.05.06.01.03	Size of Island: 11m x 20m	each	Add +21.00% with Item No 4.05.06.01.01
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	567,681.84
4.05.06.02.02	Size of Island: 11m x 18m	each	Add +12.00% with Item No 4.05.06.02.01
4.05.06.02.03	Size of Island: 11m x 20m	each	Add +21.00% with Item No 4.05.06.02.01
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	298,612.29
4.05.07.02	Size: 30.0m x 9.0m, Loaded Draft: 1.8m/1.2m, Carrying capacity: 200 MT	each/ month	411,421.37
4.05.07.03	Size: 38.0m x 9.0m, Loaded Draft: 2.0m/1.37m, Carrying capacity: 300 MT	each/ month	477,779.66
4.05.07.04	Size: 36.5m x 12.0m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 400 MT	each/ month	628,191.77
4.05.07.05	Size: 38.0m x 13.5m, Loaded Draft: 2.4m/1.8m, Carrying capacity: 500 MT	each/ month	741,000.86
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 provided 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	14,865.81
4.05.08.02	For 9.00m to 12.00m depth of water	sqm	17,158.87
4.05.08.03	For 12.00m to 15.00m depth of water	sqm	18,208.23
4.05.08.04	For 15.00m to 18.00m depth of water	sqm	19,272.06
4.05.08.05	For 18.00m & Above depth of water	sqm	20,372.33
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 unifoat (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	127,048.19
4.05.09.02	For depth 5m to 6m from LWL	sqm	Add +10.00% with Item No 4.05.09.01

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4.05.09.03	For depth 6m to 7m from LWL	sqm	Add +20.00% with Item No 4.05.09.01
4.05.09.04	For depth 7m to 8m from LWL	sqm	Add +30.00% with Item No 4.05.09.01
4.05.09.05	For depth 8m to 9m from LWL	sqm	Add +40.00% with Item No 4.05.09.01
4.05.09.06	For depth 9m to 10m from LWL	sqm	Add +50.00% with Item No 4.05.09.01
4.05.09.07	For depth above 10m from LWL	sqm	Add +60.00% with Item No 4.05.09.01
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 choice 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	6,779.86
4.05.10.02	Dewatering system for depth 3m to 6m	sqm	20,565.17
4.05.10.03	Dewatering system for depth 6m to 9m	sqm	51,100.81
4.05.10.04	Dewatering system for depth above 9m	sqm	Add +25.00% with Item No 4.05.10.03

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	1,123.28
4.06.01.02	Sand of Minimum FM 1.2	cum	1,160.21
4.06.01.03	Sand of Minimum FM 1.8	cum	1,800.33
4.06.01.04	Sand of Minimum FM 2.5	cum	2,862.06
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	479.70
4.06.03	PCC-10: Plain cement concrete work in foundation with minimum compressive strength of 10 MPa at 28 days (suggested 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) conforming 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	9,082.35
4.06.04	PCC-17: Plain cement concrete work in foundation with minimum compressive strength of 17 MPa at 28 days (suggested 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) conforming 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	9,960.62

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Item Code	Brief Description of Item	Unit	Rate
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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	8,817.30
4.06.05.02	Cement mortar (1:4)	cum	8,332.04
4.06.05.03	Cement mortar (1:6)	cum	7,893.12
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 junctions 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	274.71
4.06.06.02	Cement mortar (1:4)	sqm	263.14

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 than 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	1,437.31
4.07.01.01.02	500mm diameter	m	1,783.77
4.07.01.01.03	600mm diameter	m	2,132.34
4.07.01.01.04	700mm diameter	m	2,491.32
4.07.01.01.05	800mm diameter	m	2,773.07
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	2,243.42
4.07.01.02.02	700mm diameter	m	2,733.09
4.07.01.02.03	800mm diameter	m	3,251.25

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.07.01.02.04	900mm diameter	m	4,014.18
4.07.01.02.05	1000mm diameter	m	5,159.73
4.07.01.02.06	1200mm diameter	m	6,101.46
4.07.01.02.07	1500mm diameter	m	7,436.98
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	800mm diameter	m	4,371.06
4.07.01.03.02	900mm diameter	m	5,347.40
4.07.01.03.03	1000mm diameter	m	6,814.27
4.07.01.03.04	1200mm diameter	m	7,885.47
4.07.01.03.05	1500mm diameter	m	9,489.56
4.07.01.03.06	1800mm diameter	m	11,319.17
4.07.01.03.07	2000mm diameter	m	12,465.38
4.07.01.03.08	2500mm diameter	m	14,240.35
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	2,137.76
4.07.02.02	Pile diameter - 500 mm	m	2,291.64
4.07.02.03	Pile diameter - 600 mm	m	2,445.51
4.07.02.04	Pile diameter - 700 mm	m	3,692.73
4.07.02.05	Pile diameter - 800 mm	m	4,228.72
4.07.02.06	Pile diameter - 900 mm	m	4,551.34
4.07.02.07	Pile diameter - 1000 mm	m	5,448.56
4.07.02.08	Pile diameter - 1200 mm	m	6,017.05
4.07.02.09	Pile diameter - 1500 mm	m	6,696.66

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 hopper, 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. Note: Using Concrete Mixer	cum	15,064.81
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 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump	cum	15,048.97

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump	cum	15,996.07
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 its 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	6,990.49
4.07.06.02	500mm diameter and 6mm thick wall	m	9,077.80
4.07.06.03	600mm diameter and 6mm thick wall	m	10,799.12
4.07.06.04	700mm diameter and 6mm thick wall	m	12,568.67
4.07.06.05	800mm diameter and 8mm thick wall	m	19,004.42
4.07.06.06	900mm diameter and 8mm thick wall	m	21,363.83
4.07.06.07	1000mm diameter and 10mm thick wall	m	29,569.13
4.07.06.08	1200mm diameter and 10mm thick wall	m	33,865.66
4.07.06.09	1500mm diameter and 12mm thick wall	m	49,450.44
4.07.06.10	1800mm diameter and 12mm thick wall	m	59,277.96
4.07.06.11	2000mm diameter and 16mm thick wall	m	87,783.57
4.07.06.12	2500mm diameter and 20mm thick wall	m	136,897.12

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 supervisor.		
4.07.07.01	SW: spot/tack welding at contact point of the spirals at reasonable intervals with the main vertical reinforcements of re-bar cage to be placed in borehole.	each	4.28
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.	meter	511.47
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 responsible for any irregularities by the party regarding dumping of the debris.	cum	6,784.09
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 hopper, 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 its 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. Note: Using Concrete Mixer	cum	10,995.22
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 hopper, 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 its 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. Note: Using Concrete Mixer	cum	16,576.57

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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. Note: Using Batching Plant, Transit Mixer & Concrete Pump	cum	16,844.74
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. Note: Using Batching Plant, Transit Mixer & Concrete Pump	cum	17,889.42
4.07.13	Mobilization and demobilization of drop hammer type pre-cast pile driving rig set.	set/site	10,771.20
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	402.51
4.07.14.02	X-section of pre-cast pile: 250mm X 250mm	m	566.94
4.07.14.03	X-section of pre-cast pile: 300mm X 300mm	m	724.90
4.07.14.04	X-section of pre-cast pile: 350mm X 350mm	m	1,007.22
4.07.15	Mobilization and demobilization of automatic diesel hammer mounted compete rig set.	per site	191,701.71
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.		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.07.16.01	X-section of pre-cast pile: 225 mm X 225 mm	m	571.99
4.07.16.02	X-section of pre-cast pile: 250 mm X 250 mm	m	736.44
4.07.16.03	X-section of pre-cast pile: 300 mm X 300 mm	m	963.12
4.07.16.04	X-section of pre-cast pile: 350 mm X 350 mm	m	1,030.27
4.07.16.05	X-section of pre-cast pile: 400 mm X 400 mm	m	1,143.90
4.07.16.06	X-section of pre-cast pile: 450 mm X 450 mm	m	1,226.20
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	437,580.00
4.07.17.02	Maximum pile driving force 120 to 180 ton	set/site	491,436.00
4.07.17.03	Maximum pile driving force 180 to 260 ton	set/site	545,292.00
4.07.17.04	Maximum pile driving force 260 to 360 ton	set/site	626,076.00
4.07.17.05	Maximum pile driving force above 360 ton	set/site	679,932.00
4.07.18	Driving pre-cast RCC piles of various sizes (250 mm x 250 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.	m	931.87
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	8,054.37
4.07.19.02	Steel H-Piles of 450mm x 250mm conforming to requirements of AASHTO M 183.	m	9,076.03
4.07.20	Manufacturing, supplying and fitting fixing MS shoe at RCC pre-cast pile tip with tip area 12mm x 12 mm, butt 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.	each	2,342.27

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 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 hopper 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. Note: Using Concrete Mixer		
4.07.21.01	X-section of pre-cast pile: 150mm x 150mm		
4.07.21.01.01	Cost of reinforced cement concrete	m	391.85
4.07.21.01.02	Cost of driving up to 8.00m	m	230.84
4.07.21.02	X-section of pre-cast pile: 200mm x 200mm		
4.07.21.02.01	Cost of reinforced cement concrete	m	696.27
4.07.21.02.02	Cost of driving up to 8.00m	m	302.85
4.07.22	Supplying, fitting, fixing prefabricated square shaped two steel caps for Pre-cast spliced pile made up by 6mm thick MS plate conforming to ASTM A 36, 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. 12mm thick MS Plate shaping the edges in 45 degree, having min. 40 mm dia hole at centre to pass 25mm MS bar 450 mm in length; jointed at channels root by welding; cap fitted with 2 nos. BDS ISO 6935-2: 2006 RB 400W complied 20mm U-bar 1250mm in length by welding equidistance from centre holes of cap and shall have min 75mm clear from pile faces; and finally, the system be fitted in correct alignments on pile head positions waiting for concreting; both the pile heads fitted with the steel caps be welded together through v-notches in field, while one of the companion segment of piles driven in ground and other one placed over it maintaining true verticality; all complete as per design, drawing, specification & direction of E-I-C.		
4.07.22.01	X-section of pile segment: 300 mm x 300 mm	each	10,254.59
4.07.22.02	X-section of pile segment: 350 mm x 350 mm	each	11,579.52
4.07.22.03	X-section of pile segment: 400 mm x 400 mm	each	13,040.34

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization, demobilization, hire charge of gunny bag/ concrete block/ steel sheet, 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 respects approved and accepted by the Engineer (Minimum two cyclic loading; one at service load and another cycle at double the load of service load then to continue loading till failure of the pile). 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 ton	each	156,793.09
4.07.23.02	Above 75 ton and up to 125 ton	each	197,395.70
4.07.23.03	Above 125 ton and up to 175 ton	each	246,688.37
4.07.23.04	Above 175 ton and up to 225 ton	each	286,827.92
4.07.23.05	Above 225 ton and up to 275 ton	each	326,967.47
4.07.23.06	Above 275 ton and up to 325 ton	each	369,781.55
4.07.23.07	Above 325 ton and up to 375 ton	each	411,695.46
4.07.23.08	Above 375 ton and up to 500 ton	each	462,170.65
4.07.23.09	Above 500 ton and up to 700 ton	each	556,380.95
4.07.23.10	Above 700 ton and up to 900 ton	each	649,469.70
4.07.23.11	Above 900 ton and up to 1100 ton	each	742,558.45
4.07.23.12	Above 1100 ton and up to 1300 ton	each	836,768.75
4.07.23.13	Above 1300 ton and up to 1500 ton	each	929,857.50
4.07.23.14	Above 1500 ton	LS	
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 kentledge, 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	33,660.00
4.07.24.02	LLT_50+: Above 50 ton capacity pile	each	51,163.20

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.07.25	Conducting initial load test upto three times the design load capacity on single pile including installation of bored cast-in-situ pile to required depth using reinforced cement concrete with minimum compressive strength of 25 MPa at 28 days (suggested mix proportion 1:1.5:3, w/c max. 0.4) on standard cylinders as per standard practice of Code AASHTO/ ASTM and cement conforming to BDS EN 197-1 : 2003 CEM-II 42.5N, coarse sand of minimum FM 2.5 and 20mm down well graded crushed stone chips conforming to ASTM C33 (Preferably stone chips from Madhyapara, Dinajpur, LAA value not exceeding 30) including materials, boring/ drilling in all types of strata from ground level to termination depth of pile including providing bentonite slurry (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) and/ or casing for stabilization of pile bore, flushing of pile bore, cleaning, providing plasticizer wherever required, breaking pile head to cut off level and exposing pile reinforcement for embedment in pile cap, constructing test pile cap including materials, excavation, all arrangements of loading, unloading, equipments, jacks, recording of results, labour, dismantling the pile cap after test, submission of test report etc complete for the following as per design, drawing, specification and direction of E-I-C.	LS	
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), impedance 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 supervision 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	set	21,946.32
4.07.26.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	Per km	44.88
4.07.26.03	PIT on each additional pile after 10(ten) piles tested.	each	1,732.43
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 stresses 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 supervision 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	91,603.29
4.07.27.01.02	Up to two piles at a site to test in single run	each	81,986.14
4.07.27.01.03	Up to three piles at a site to test in single run	each	78,780.27
4.07.27.01.04	four or above piles at a site to test in single run	each	77,177.57
4.07.27.02	For test load above 100 MT to 300 MT		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.07.27.02.01	Only one pile at a site to test in single run	each	198,994.71
4.07.27.02.02	Up to two piles at a site to test in single run	each	174,951.86
4.07.27.02.03	Up to three piles at a site to test in single run	each	166,937.41
4.07.27.02.04	four or above piles at a site to test in single run	each	162,930.43
4.07.27.03	For test load above 300 MT to 500 MT		
4.07.27.03.01	Only one pile at a site to test in single run	each	243,874.71
4.07.27.03.02	Up to two piles at a site to test in single run	each	205,406.14
4.07.27.03.03	Up to three piles at a site to test in single run	each	192,583.13
4.07.27.03.04	four or above piles at a site to test in single run	each	186,171.86
4.07.27.04	For test load above 500 MT		
4.07.27.04.01	Only one pile at a site to test in single run	each	283,946.14
4.07.27.04.02	Up to two piles at a site to test in single run	each	233,456.14
4.07.27.04.03	Up to three piles at a site to test in single run	each	216,626.14
4.07.27.04.04	four or above piles at a site to test in single run	each	208,211.14
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	811.12
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 preliminary 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 description 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 supervision 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	270,882.22
4.07.29.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	Per Km	44.88
4.07.29.03	CSL Testing on each additional access tube after 4(four) access tubes	each	54,256.55

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.07.30	PG: Conducting post-grouting of the large diameter piles by repeatedly injecting high pressure 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 kentledge, 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	35,248.75

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	6,313.74
4.08.01.01.02	Depth beyond 3.0 m up to 10.0 m	m	8,950.07
4.08.01.01.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.01.02
4.08.01.01.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.01.02
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	Add +145.00% with Item No 4.08.01.01.02
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	Add +250.00% with Item No 4.08.01.01.02
4.08.01.01.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.01.02
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	9,020.59
4.08.01.02.02	Depth beyond 3.0 m up to 10.0 m	m	18,922.75
4.08.01.02.03	Depth beyond 10.0 m up to 15.0 m	m	Add +20.00% with Item No 4.08.01.02.02
4.08.01.02.04	Depth beyond 15.0 m up to 20.0 m	m	Add +55.00% with Item No 4.08.01.02.02
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	Add +160.00% with Item No 4.08.01.02.02
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	Add +280.00% with Item No 4.08.01.02.02
4.08.01.02.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.02.02

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	26,215.87
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	9,479.85
4.08.01.04.02	Depth beyond 3.0 m up to 10.0 m	m	12,644.27
4.08.01.04.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.04.02
4.08.01.04.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.04.02
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	Add +145.00% with Item No 4.08.01.04.02
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	Add +250.00% with Item No 4.08.01.04.02
4.08.01.04.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.04.02
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	12,644.27
4.08.01.05.02	Depth beyond 3.0 m up to 10.0 m	m	18,309.67
4.08.01.05.03	Depth beyond 10.0 m up to 15.0 m	m	Add +20.00% with Item No 4.08.01.05.02
4.08.01.05.04	Depth beyond 15.0 m up to 20.0 m	m	Add +55.00% with Item No 4.08.01.05.02
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	Add +160.00% with Item No 4.08.01.05.02
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	Add +280.00% with Item No 4.08.01.05.02
4.08.01.05.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.05.02
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	22,326.32
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	11,586.39
4.08.01.07.02	Depth beyond 3.0 m up to 10.0 m	m	14,258.54
4.08.01.07.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.07.02
4.08.01.07.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.07.02
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	Add +145.00% with Item No 4.08.01.07.02
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	Add +250.00% with Item No 4.08.01.07.02
4.08.01.07.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.07.02
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	15,501.13

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.08.01.08.02	Depth beyond 3.0 m up to 10.0 m	m	19,068.67
4.08.01.08.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	Add +20.00% with Item No 4.08.01.08.02
4.08.01.08.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	Add +55.00% with Item No 4.08.01.08.02
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	Add +160.00% with Item No 4.08.01.08.02
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	Add +280.00% with Item No 4.08.01.08.02
4.08.01.08.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.08.02
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	24,926.83
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	11,736.40
4.08.01.10.02	Depth beyond 3.0 m up to 10.0 m	m	15,616.44
4.08.01.10.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.10.02
4.08.01.10.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.10.02
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	Add +145.00% with Item No 4.08.01.10.02
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	Add +250.00% with Item No 4.08.01.10.02
4.08.01.10.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.10.02
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	16,401.46
4.08.01.11.02	Depth beyond 3.0 m up to 10.0 m	m	20,646.97
4.08.01.11.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	Add +20.00% with Item No 4.08.01.11.02
4.08.01.11.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	Add +55.00% with Item No 4.08.01.11.02
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	Add +160.00% with Item No 4.08.01.11.02
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	Add +280.00% with Item No 4.08.01.11.02
4.08.01.11.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.11.02
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	29,791.33
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	14,002.18

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.08.01.13.02	Depth beyond 3.0 m up to 10.0 m	m	16,534.68
4.08.01.13.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.13.02
4.08.01.13.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.13.02
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	Add +145.00% with Item No 4.08.01.13.02
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	Add +250.00% with Item No 4.08.01.13.02
4.08.01.13.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.13.02
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	18,137.45
4.08.01.14.02	Depth beyond 3.0 m up to 10.0 m	m	20,458.10
4.08.01.14.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	Add +20.00% with Item No 4.08.01.14.02
4.08.01.14.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	Add +55.00% with Item No 4.08.01.14.02
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	Add +160.00% with Item No 4.08.01.14.02
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	Add +280.00% with Item No 4.08.01.14.02
4.08.01.14.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.14.02
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	32,462.99
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	32,028.12
4.08.01.16.02	Depth beyond 3.0 m up to 10.0 m	m	25,962.49
4.08.01.16.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.16.02
4.08.01.16.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.16.02
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	Add +145.00% with Item No 4.08.01.16.02
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	Add +250.00% with Item No 4.08.01.16.02
4.08.01.16.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.16.02
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	30,368.65
4.08.01.17.02	Depth beyond 3.0 m up to 10.0 m	m	42,318.74
4.08.01.17.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	Add +20.00% with Item No 4.08.01.17.02

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Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.08.01.17.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	Add +55.00% with Item No 4.08.01.17.02
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	Add +160.00% with Item No 4.08.01.17.02
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	Add +280.00% with Item No 4.08.01.17.02
4.08.01.17.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.17.02
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	72,727.21
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	66,518.16
4.08.01.19.02	Depth beyond 3.0 m up to 10.0 m	m	75,518.65
4.08.01.19.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.01.19.02
4.08.01.19.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.01.19.02
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	Add +145.00% with Item No 4.08.01.19.02
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	Add +250.00% with Item No 4.08.01.19.02
4.08.01.19.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.01.19.02
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	74,280.50
4.08.01.20.02	Depth beyond 3.0 m up to 10.0 m	m	106,386.91
4.08.01.20.03	Depth beyond 10.0 m up to 15.0 m [Considering additional cost for Dewatering]	m	Add +20.00% with Item No 4.08.01.20.02
4.08.01.20.04	Depth beyond 15.0 m up to 20.0 m [Considering additional cost for Dewatering]	m	Add +55.00% with Item No 4.08.01.20.02
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	Add +160.00% with Item No 4.08.01.20.02
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	Add +280.00% with Item No 4.08.01.20.02
4.08.01.20.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.01.20.02
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	170,511.15
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.		

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	14,989.54
4.08.02.01.02	Depth beyond 3.0 m up to 10.0 m	m	16,235.72
4.08.02.01.03	Depth beyond 10.0 m up to 15.0 m	m	Add +16.00% with Item No 4.08.02.01.02
4.08.02.01.04	Depth beyond 15.0 m up to 20.0 m	m	Add +48.00% with Item No 4.08.02.01.02
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	Add +145.00% with Item No 4.08.02.01.02
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	Add +250.00% with Item No 4.08.02.01.02
4.08.02.01.07	Depth beyond 30.0 m [Considering additional cost for Kentledge including supports, loading arrangement and Labour.]	m	Add +440.00% with Item No 4.08.02.01.02
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	17,829.89
4.08.02.02.02	Depth beyond 3.0 m up to 10.0 m	m	22,635.37
4.08.02.02.03	Depth beyond 10.0 m up to 15.0 m	m	Add +20.00% with Item No 4.08.02.02.02
4.08.02.02.04	Depth beyond 15.0 m up to 20.0 m	m	Add +55.00% with Item No 4.08.02.02.02
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	Add +160.00% with Item No 4.08.02.02.02
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	Add +280.00% with Item No 4.08.02.02.02
4.08.02.02.07	Depth beyond 30.0 m [Considering additional cost for Dewatering, Kentledge including supports, loading arrangement and Labour.]	m	Add +460.00% with Item No 4.08.02.02.02
4.08.02.03	Sinking of 8m external diameter well in Soft Rock		
4.08.02.03.01	Depth below bed level up to 3.0 m	m	36,153.03
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	119,637.87
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	132,476.91
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]	cum	10,810.50
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]	cum	14,576.54

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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]	cum	13,905.61
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]	cum	16,289.90
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]	cum	15,618.97
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]	cum	17,371.64
4.08.05.01.07	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]	cum	16,700.71
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]	cum	9,909.62
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]	cum	13,361.83
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]	cum	12,746.81
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]	cum	14,932.41
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]	cum	14,317.39
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]	cum	15,924.00
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]	cum	15,308.98

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.08.05.02.09	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]	cum	16,140.48
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 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]	cum	10,270.70
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]	cum	13,503.44
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 & Crane/ Concrete Pump]	cum	12,611.66
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]	cum	15,067.50
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 & Crane/ Concrete Pump]	cum	14,175.72
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]	cum	16,106.66
4.08.05.03.07	PCC-30SCBP : 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 2.5 and 38mm down well graded crushed stone chips (LAA ≤ 25). [Using Batching Plant, Transit Mixer & Crane/ Concrete Pump]	cum	15,091.66
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 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]	cum	9,781.62
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]	cum	12,860.42
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 & Crane/ Concrete Pump]	cum	12,011.11
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]	cum	14,350.00

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 & Crane/ Concrete Pump]	cum	13,500.68
4.08.05.05	In Top Plug		
4.08.05.05.01	PCC-17BCCM : Compressive strength, $f_c = 17$ 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]	cum	8,856.99
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]	cum	11,991.27
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]	cum	11,432.16
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]	cum	13,565.25
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]	cum	13,006.14
4.08.05.06	In well cap		
4.08.05.06.01	RCC-17BCCM : Compressive strength, $f_c = 17$ 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]	cum	9,325.30
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]	cum	12,602.63
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]	cum	12,022.56
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]	cum	14,050.04
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]	cum	13,471.36
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]	cum	14,910.65

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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]	cum	14,334.77
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]	cum	15,113.36
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	8,943.69
4.08.06.02	Cement mortar (1:4)	cum	8,507.20

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 gradation 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 hopper, 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. Note: Using Concrete Mixer		
4.09.01.01	For pile caps, abutment base of bridges and bottom slab of box culverts	cum	10,995.22
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	11,499.59
4.09.01.02.02	For height above 5m	cum	Add +25.00% with Item No 4.09.01.02.01
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	14,122.30
4.09.01.03.02	For height above 5m	cum	Add +12.50% with Item No 4.09.01.03.01
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	15,140.86
4.09.01.04.02	For height above 5m	cum	Add +13.75% with Item No 4.09.01.04.01
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	12,911.82
4.09.01.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.01.05.01
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	13,470.15

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1	2	3	4
4.09.01.06.02	For cast-in-situ railing and rail post	cum	11,903.85
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 hopper, 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		
4.09.02.01	For pile caps, abutment base of bridges and bottom slab of Box Culvert	cum	14,856.37
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	15,125.33
4.09.02.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.02.02.01
4.09.02.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.02.02.01
4.09.02.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.02.02.01
4.09.02.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.02.02.01
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	18,574.97
4.09.02.03.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.02.03.01
4.09.02.03.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.02.03.01
4.09.02.03.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.02.03.01
4.09.02.03.05	For height above 20m	cum	Add +40.00% with Item No 4.09.02.03.01
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	19,752.56
4.09.02.04.02	For height above 5m to 10m	cum	Add +13.75% with Item No 4.09.02.04.01
4.09.02.04.03	For height above 10m to 15m	cum	Add +27.50% with Item No 4.09.02.04.01
4.09.02.04.04	For height above 15m to 20m	cum	Add +41.25% with Item No 4.09.02.04.01
4.09.02.04.05	For height above 20m	cum	Add +44.00% with Item No 4.09.02.04.01
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	16,982.83
4.09.02.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.02.05.01
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	17,125.68
4.09.02.06.02	For cast-in-situ railing & rail post	cum	15,134.32

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 hopper, 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 its 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		
4.09.03.01	For pile caps, abutment base, facing elements of Reinforced/ Mechanically Stabilized Earth Structure, bottom slab of Box Culvert etc.	cum	16,018.24
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	16,753.02
4.09.03.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.03.02.01
4.09.03.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.03.02.01
4.09.03.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.03.02.01
4.09.03.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.03.02.01
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	22,778.23
4.09.03.03.02	For height above 5m to 10m	cum	Add +11.00% with Item No 4.09.03.03.01
4.09.03.03.03	For height above 10m to 15m	cum	Add +22.00% with Item No 4.09.03.03.01
4.09.03.03.04	For height above 15 m to 20 m	cum	Add +33.00% with Item No 4.09.03.03.01
4.09.03.03.05	For height above 20m	cum	Add +44.00% with Item No 4.09.03.03.01
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	24,080.40
4.09.03.04.02	For height above 5m to 10m	cum	Add +7.50% with Item No 4.09.03.04.01
4.09.03.04.03	For height above 10m to 15m	cum	Add +15.00% with Item No 4.09.03.04.01
4.09.03.04.04	For height above 15m to 20m	cum	Add +22.50% with Item No 4.09.03.04.01
4.09.03.04.05	For height above 20m	cum	Add +30.00% with Item No 4.09.03.04.01
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	19,104.33
4.09.03.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.03.05.01
4.09.03.06	For Arch/ inclined girder of bridges		
4.09.03.06.01	For height up to 5m	cum	25,235.97
4.09.03.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.03.06.01
4.09.03.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.03.06.01
4.09.03.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.03.06.01

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1	2	3	4
4.09.03.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.03.06.01
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	23,513.02
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	19,147.35
4.09.03.08.02	For cast-in-situ railing and rail post	cum	16,920.91
4.09.03.09	For Pre-cast paving slab for bridge footpath	cum	16,018.24
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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.04.01	For pile caps, abutment base, facing elements of Reinforced/ Mechanically Stabilized Earth Structure, bottom slab of Box Culvert etc.	cum	15,999.72
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	16,733.66
4.09.04.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.04.02.01
4.09.04.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.04.02.01
4.09.04.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.04.02.01
4.09.04.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.04.02.01
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	22,751.90
4.09.04.03.02	For height above 5m to 10m	cum	Add +11.00% with Item No 4.09.04.03.01
4.09.04.03.03	For height above 10m to 15m	cum	Add +22.00% with Item No 4.09.04.03.01
4.09.04.03.04	For height above 15m to 20m	cum	Add +33.00% with Item No 4.09.04.03.01
4.09.04.03.05	For height above 20m	cum	Add +44.00% with Item No 4.09.04.03.01
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	24,053.22
4.09.04.04.02	For height above 5m to 10m	cum	Add +7.50% with Item No 4.09.04.04.01
4.09.04.04.03	For height above 10m to 15m	cum	Add +15.00% with Item No 4.09.04.04.01
4.09.04.04.04	For height above 15m to 20m	cum	Add +22.50% with Item No 4.09.04.04.01
4.09.04.04.05	For height above 20m	cum	Add +30.00% with Item No 4.09.04.04.01
4.09.04.05	For top slab including curb and wheel guard of box culvert		

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1	2	3	4
4.09.04.05.01	For height up to 5 m	cum	19,082.24
4.09.04.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.04.05.01
4.09.04.06	For Arch/ inclined girder of bridges		
4.09.04.06.01	For height up to 5 m	cum	25,207.94
4.09.04.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.04.06.01
4.09.04.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.04.06.01
4.09.04.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.04.06.01
4.09.04.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.04.06.01
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	23,485.83
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	19,125.43
4.09.04.08.02	For cast-in-situ railing and rail post	cum	16,901.54
4.09.04.09	For Pre-cast paving slab for bridge footpath	cum	15,999.72
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-1, 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 hopper, 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. Note: Using Concrete Mixer		
4.09.05.01	For foundation of Pier & Abutment of Bridges and Box Culverts	cum	17,000.82
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	17,780.67
4.09.05.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.05.02.01
4.09.05.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.05.02.01
4.09.05.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.05.02.01
4.09.05.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.05.02.01
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	24,175.48
4.09.05.03.02	For height above 5m to 10m	cum	Add +11.00% with Item No 4.09.05.03.01
4.09.05.03.03	For height above 10m to 15m	cum	Add +22.00% with Item No 4.09.05.03.01
4.09.05.03.04	For height above 15m to 20m	cum	Add +33.00% with Item No 4.09.05.03.01
4.09.05.03.05	For height above 20m	cum	Add +44.00% with Item No 4.09.05.03.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	25,522.72
4.09.05.04.02	For height above 5m to 10m	cum	Add +7.50% with Item No 4.09.05.04.01
4.09.05.04.03	For height above 10m to 15m	cum	Add +15.00% with Item No 4.09.05.04.01
4.09.05.04.04	For height above 15m to 20m	cum	Add +22.50% with Item No 4.09.05.04.01
4.09.05.04.05	For height above 20m	cum	Add +30.00% with Item No 4.09.05.04.01
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	20,276.21
4.09.05.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.05.05.01
4.09.05.06	For Arch/ inclined girder of bridges		
4.09.05.06.01	For height up to 5m	cum	26,432.44
4.09.05.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.05.06.01
4.09.05.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.05.06.01
4.09.05.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.05.06.01
4.09.05.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.05.06.01
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	24,955.33
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	20,310.22
4.09.05.08.02	For cast-in-situ railing and rail post	cum	17,948.56
4.09.05.09	For Pre-cast paving slab for bridge footpath	cum	17,000.82
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-1, 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 its 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.06.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	16,982.30
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	17,761.30
4.09.06.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.06.02.01
4.09.06.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.06.02.01

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.09.06.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.06.02.01
4.09.06.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.06.02.01
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	24,149.14
4.09.06.03.02	For height above 5m to 10m	cum	Add +10.00% with Item No 4.09.06.03.01
4.09.06.03.03	For height above 10m to 15m	cum	Add +20.00% with Item No 4.09.06.03.01
4.09.06.03.04	For height above 15m to 20m	cum	Add +30.00% with Item No 4.09.06.03.01
4.09.06.03.05	For height above 20m	cum	Add +40.00% with Item No 4.09.06.03.01
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	25,495.53
4.09.06.04.02	For height above 5m to 10m	cum	Add +6.50% with Item No 4.09.06.04.01
4.09.06.04.03	For height above 10m to 15m	cum	Add +13.00% with Item No 4.09.06.04.01
4.09.06.04.04	For height above 15m to 20m	cum	Add +19.50% with Item No 4.09.06.04.01
4.09.06.04.05	For height above 20m	cum	Add +26.00% with Item No 4.09.06.04.01
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	20,254.12
4.09.06.05.02	For height above 5m	cum	Add +5.50% with Item No 4.09.06.05.01
4.09.06.06	For Arch/ inclined girder of bridges		
4.09.06.06.01	For Height up to 5m	cum	26,290.85
4.09.06.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.06.06.01
4.09.06.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.06.06.01
4.09.06.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.06.06.01
4.09.06.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.06.06.01
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	24,928.15
4.09.06.08	For Box Girder and Balanced Cantilever		
4.09.06.08.01	For height up to 5m	cum	26,695.32
4.09.06.08.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.06.08.01
4.09.06.08.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.06.08.01
4.09.06.08.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.06.08.01
4.09.06.08.05	For height above 20m	cum	Add +40.00% with Item No 4.09.06.08.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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-1, 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.07.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	17,806.24
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	18,623.04
4.09.07.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.07.02.01
4.09.07.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.07.02.01
4.09.07.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.07.02.01
4.09.07.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.07.02.01
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	24,504.00
4.09.07.03.02	For height above 5m to 10m	cum	Add +9.50% with Item No 4.09.07.03.01
4.09.07.03.03	For height above 10m to 15m	cum	Add +19.00% with Item No 4.09.07.03.01
4.09.07.03.04	For height above 15m to 20m	cum	Add +28.50% with Item No 4.09.07.03.01
4.09.07.03.05	For height above 20m	cum	Add +38.00% with Item No 4.09.07.03.01
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	25,870.45
4.09.07.04.02	For height above 5m to 10m	cum	Add +6.50% with Item No 4.09.07.04.01
4.09.07.04.03	For height above 10m to 15m	cum	Add +13.00% with Item No 4.09.07.04.01
4.09.07.04.04	For height above 15m to 20m	cum	Add +19.50% with Item No 4.09.07.04.01
4.09.07.04.05	For height above 20m	cum	Add +26.00% with Item No 4.09.07.04.01
4.09.07.05	For Arch/ inclined girder of bridges		
4.09.07.05.01	For height up to 5 m	cum	27,095.83
4.09.07.05.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.07.05.01
4.09.07.05.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.07.05.01
4.09.07.05.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.07.05.01
4.09.07.05.05	For height above 20m	cum	Add +40.00% with Item No 4.09.07.05.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.09.07.06	For Box Girder, Segmental Construction and Balanced Cantilever		
4.09.07.06.01	For height up to 5m	cum	27,519.20
4.09.07.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.07.06.01
4.09.07.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.07.06.01
4.09.07.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.07.06.01
4.09.07.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.07.06.01
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-1, 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.08.01	For foundation of Pier & Abutment of bridges	cum	18,102.55
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	18,932.94
4.09.08.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.08.02.01
4.09.08.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.08.02.01
4.09.08.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.08.02.01
4.09.08.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.08.02.01
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	25,052.11
4.09.08.03.02	For height above 5m to 10m	cum	Add +9.50% with Item No 4.09.08.03.01
4.09.08.03.03	For height above 14m to 15m	cum	Add +19.00% with Item No 4.09.08.03.01
4.09.08.03.04	For height above 19m to 20m	cum	Add +28.50% with Item No 4.09.08.03.01
4.09.08.03.05	For height above 20m	cum	Add +38.00% with Item No 4.09.08.03.01
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	26,291.81
4.09.08.04.02	For height above 5m to 10m	cum	Add +6.00% with Item No 4.09.08.04.01
4.09.08.04.03	For height above 10m to 15m	cum	Add +12.00% with Item No 4.09.08.04.01
4.09.08.04.04	For height above 15m to 20m	cum	Add +18.00% with Item No 4.09.08.04.01
4.09.08.04.05	For height above 20m	cum	Add +24.00% with Item No 4.09.08.04.01
4.09.08.05	For Arch/ inclined girder of bridges		

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.09.08.05.01	For height up to 5m	cum	27,100.61
4.09.08.05.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.08.05.01
4.09.08.05.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.08.05.01
4.09.08.05.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.08.05.01
4.09.08.05.05	For height above 20m	cum	Add +40.00% with Item No 4.09.08.05.01
4.09.08.06	For Box Girder, Segmental Construction and Balanced Cantilever		
4.09.08.06.01	For height up to 5m	cum	27,960.95
4.09.08.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.08.06.01
4.09.08.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.08.06.01
4.09.08.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.08.06.01
4.09.08.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.08.06.01
4.09.09	Marine Concrete, RCC, 30SCCM: Reinforced cement concrete work for Marine region with minimum cement content and maximum water cement ratio (WCR), 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, 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 (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 hopper, 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. Note: minimum Cement content considered in M-30 is @ 450kg/cum relates to nominal mix ratio 1:1.25:2.4 and maximum WCR=0.4, Additional quantity of cement to be added if required to attain the required strength at the contractors own cost. 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 reservoir 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. Note: Using Concrete Mixer		
4.09.09.01	For foundation of Pier & Abutment of Bridges and Box Culverts	cum	17,659.41
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	18,469.48
4.09.09.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.09.02.01
4.09.09.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.09.02.01
4.09.09.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.09.02.01
4.09.09.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.09.02.01
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	25,112.01
4.09.09.03.02	For height above 5m to 10m	cum	Add +11.00% with Item No 4.09.09.03.01
4.09.09.03.03	For height above 10m to 15m	cum	Add +22.00% with Item No 4.09.09.03.01
4.09.09.03.04	For height above 15m to 20m	cum	Add +33.00% with Item No 4.09.09.03.01
4.09.09.03.05	For height above 20m	cum	Add +44.00% with Item No 4.09.09.03.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	26,489.46
4.09.09.04.02	For height above 5m to 10m	cum	Add +7.50% with Item No 4.09.09.04.01
4.09.09.04.03	For height above 10m to 15m	cum	Add +15.00% with Item No 4.09.09.04.01
4.09.09.04.04	For height above 15m to 20m	cum	Add +22.50% with Item No 4.09.09.04.01
4.09.09.04.05	For height above 20m	cum	Add +30.00% with Item No 4.09.09.04.01
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	21,061.68
4.09.09.05.02	For height above 5m	cum	Add +6.00% with Item No 4.09.09.05.01
4.09.09.06	For Arch/ inclined girder of bridges		
4.09.09.06.01	For height up to 5m	cum	27,429.39
4.09.09.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.09.06.01
4.09.09.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.09.06.01
4.09.09.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.09.06.01
4.09.09.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.09.06.01
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	25,922.07
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	20,878.91
4.09.09.08.02	For cast-in-situ railing and rail post	cum	18,451.13
4.09.09.09	For Pre-cast paving slab for bridge footpath	cum	17,659.41
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, 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 (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 Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.10.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	17,640.89
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	18,450.11
4.09.10.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.10.02.01
4.09.10.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.10.02.01

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.09.10.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.10.02.01
4.09.10.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.10.02.01
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	25,085.67
4.09.10.03.02	For height above 5m to 10m	cum	Add +10.00% with Item No 4.09.10.03.01
4.09.10.03.03	For height above 10m to 15m	cum	Add +20.00% with Item No 4.09.10.03.01
4.09.10.03.04	For height above 15m to 20m	cum	Add +30.00% with Item No 4.09.10.03.01
4.09.10.03.05	For height above 20m	cum	Add +40.00% with Item No 4.09.10.03.01
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	26,462.27
4.09.10.04.02	For height above 5m to 10m	cum	Add +6.00% with Item No 4.09.10.04.01
4.09.10.04.03	For height above 10m to 15m	cum	Add +13.00% with Item No 4.09.10.04.01
4.09.10.04.04	For height above 15m to 20m	cum	Add +19.00% with Item No 4.09.10.04.01
4.09.10.04.05	For height above 20m	cum	Add +26.00% with Item No 4.09.10.04.01
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	21,039.60
4.09.10.05.02	For height above 5m	cum	Add +5.50% with Item No 4.09.10.05.01
4.09.10.06	For Arch/ inclined girder of bridges		
4.09.10.06.01	For height up to 5 m	cum	27,272.69
4.09.10.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.10.06.01
4.09.10.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.10.06.01
4.09.10.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.10.06.01
4.09.10.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.10.06.01
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	25,894.89
4.09.10.08	For Box Girder and Balanced Cantilever		
4.09.10.08.01	For height up to 5 m	cum	27,692.27
4.09.10.08.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.10.08.01
4.09.10.08.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.10.08.01
4.09.10.08.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.10.08.01
4.09.10.08.05	For height above 20m	cum	Add +40.00% with Item No 4.09.10.08.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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), 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 (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 reservoir 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.09.11.01	For foundation of Pier & Abutment of Bridges and Facing Elements of Reinforced/ Mechanically Stabilized Earth Structure	cum	17,663.26
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	18,473.50
4.09.11.02.02	For height above 5m to 10m	cum	Add +25.00% with Item No 4.09.11.02.01
4.09.11.02.03	For height above 10m to 15m	cum	Add +50.00% with Item No 4.09.11.02.01
4.09.11.02.04	For height above 15m to 20m	cum	Add +75.00% with Item No 4.09.11.02.01
4.09.11.02.05	For height above 20m	cum	Add +80.00% with Item No 4.09.11.02.01
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	24,307.23
4.09.11.03.02	For height above 5m to 10m	cum	Add +9.50% with Item No 4.09.11.03.01
4.09.11.03.03	For height above 10m to 15m	cum	Add +19.00% with Item No 4.09.11.03.01
4.09.11.03.04	For height above 15m to 20m	cum	Add +28.50% with Item No 4.09.11.03.01
4.09.11.03.05	For height above 20m	cum	Add +38.00% with Item No 4.09.11.03.01
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	25,667.13
4.09.11.04.02	For height above 5m to 10m	cum	Add +6.50% with Item No 4.09.11.04.01
4.09.11.04.03	For height above 10m to 15m	cum	Add +13.00% with Item No 4.09.11.04.01
4.09.11.04.04	For height above 15m to 20m	cum	Add +19.50% with Item No 4.09.11.04.01
4.09.11.04.05	For height above 20m	cum	Add +26.00% with Item No 4.09.11.04.01
4.09.11.05	For Arch/ inclined girder of bridges		
4.09.11.05.01	For height up to 5 m	cum	26,885.94
4.09.11.05.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.11.05.01
4.09.11.05.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.11.05.01
4.09.11.05.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.11.05.01
4.09.11.05.05	For height above 20m	cum	Add +40.00% with Item No 4.09.11.05.01

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.09.11.06	For Box Girder, Segmental Construction and Balanced Cantilever		
4.09.11.06.01	For height up to 5 m	cum	27,306.03
4.09.11.06.02	For height above 5m to 10m	cum	Add +12.50% with Item No 4.09.11.06.01
4.09.11.06.03	For height above 10m to 15m	cum	Add +25.00% with Item No 4.09.11.06.01
4.09.11.06.04	For height above 15m to 20m	cum	Add +37.50% with Item No 4.09.11.06.01
4.09.11.06.05	For height above 20m	cum	Add +40.00% with Item No 4.09.11.06.01

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-1, 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 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 hopper, 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 & direction of E-I-C. The cost of non prestressing reinforcement, HT Strand and its 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. Note: Using Concrete Mixture		
4.10.01.01	For Solid Slab/ voided slab Super-structure.		
4.10.01.01.01	For height up to 5 m	cum	25,280.29
4.10.01.01.02	For height above 5 m to 10 m	cum	Add +10.00% with Item No 4.10.01.01.01
4.10.01.01.03	For height above 10 m to 15 m	cum	Add +20.00% with Item No 4.10.01.01.01
4.10.01.01.04	For height above 15 m to 20 m	cum	Add +30.00% with Item No 4.10.01.01.01
4.10.01.01.05	For height above 20 m	cum	Add +40.00% with Item No 4.10.01.01.01
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	30,336.35
4.10.01.02.02	For height above 5 m to 10 m	cum	Add +6.00% with Item No 4.10.01.02.01
4.10.01.02.03	For height above 10 m to 15 m	cum	Add +12.00% with Item No 4.10.01.02.01
4.10.01.02.04	For height above 15 m to 20 m	cum	Add +18.00% with Item No 4.10.01.02.01
4.10.01.02.05	For height above 20 m	cum	Add +24.00% with Item No 4.10.01.02.01
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	33,707.06
4.10.01.03.02	For height above 5 m to 10 m	cum	Add +6.50% with Item No 4.10.01.03.01
4.10.01.03.03	For height above 10 m to 15 m	cum	Add +13.00% with Item No 4.10.01.03.01
4.10.01.03.04	For height above 15 m to 20 m	cum	Add +19.50% with Item No 4.10.01.03.01
4.10.01.03.05	For height above 20 m	cum	Add +26.00% with Item No 4.10.01.03.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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-1, 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
4.10.02.01	For Solid Slab/voided slab Super-structure.		
4.10.02.01.01	For height up to 5 m	cum	25,531.78
4.10.02.01.02	For height above 5 m to 10 m	cum	Add +10.00% with Item No 4.10.02.01.01
4.10.02.01.03	For height above 10 m to 15 m	cum	Add +20.00% with Item No 4.10.02.01.01
4.10.02.01.04	For height above 15 m to 20 m	cum	Add +30.00% with Item No 4.10.02.01.01
4.10.02.01.05	For height above 20 m	cum	Add +40.00% with Item No 4.10.02.01.01
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	30,638.14
4.10.02.02.02	For height above 5 m to 10 m	cum	Add +6.00% with Item No 4.10.02.02.01
4.10.02.02.03	For height above 10 m to 15 m	cum	Add +12.00% with Item No 4.10.02.02.01
4.10.02.02.04	For height above 15 m to 20 m	cum	Add +18.00% with Item No 4.10.02.02.01
4.10.02.02.05	For height above 20 m	cum	Add +24.00% with Item No 4.10.02.02.01
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	34,042.38
4.10.02.03.02	For height above 5 m to 10 m	cum	Add +6.50% with Item No 4.10.02.03.01
4.10.02.03.03	For height above 10 m to 15 m	cum	Add +13.00% with Item No 4.10.02.03.01
4.10.02.03.04	For height above 15 m to 20 m	cum	Add +19.50% with Item No 4.10.02.03.01
4.10.02.03.05	For height above 20 m	cum	Add +26.00% with Item No 4.10.02.03.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.10.03	PSC-40SCRD: 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-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), 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. Note: Using Reversible Drum Mixer/ Batch Mix Plant		
4.10.03.01	For Solid Slab/voided slab Super-structure		
4.10.03.01.01	For height up to 5 m	cum	26,164.30
4.10.03.01.02	For height above 5 m to 10 m	cum	Add +10.00% with Item No 4.10.03.01.01
4.10.03.01.03	For height above 10 m to 15 m	cum	Add +20.00% with Item No 4.10.03.01.01
4.10.03.01.04	For height above 15 m to 20 m	cum	Add +30.00% with Item No 4.10.03.01.01
4.10.03.01.05	For height above 20 m	cum	Add +40.00% with Item No 4.10.03.01.01
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	31,397.16
4.10.03.02.02	For height above 5 m to 10 m	cum	Add +6.00% with Item No 4.10.03.02.01
4.10.03.02.03	For height above 10 m to 15 m	cum	Add +12.00% with Item No 4.10.03.02.01
4.10.03.02.04	For height above 15 m to 20 m	cum	Add +18.00% with Item No 4.10.03.02.01
4.10.03.02.05	For height above 20 m	cum	Add +24.00% with Item No 4.10.03.02.01
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-1, 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 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.10.04.01	For Solid Slab/voided slab Super-structure.		
4.10.04.01.01	For height up to 5 m	cum	25,958.01
4.10.04.01.02	For height above 5 m to 10 m	cum	Add +10.00% with Item No 4.10.04.01.01
4.10.04.01.03	For height above 10 m to 15 m	cum	Add +20.00% with Item No 4.10.04.01.01
4.10.04.01.04	For height above 15 m to 20 m	cum	Add +30.00% with Item No 4.10.04.01.01
4.10.04.01.05	For height above 20 m	cum	Add +40.00% with Item No 4.10.04.01.01
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	31,149.62
4.10.04.02.02	For height above 5 m to 10 m	cum	Add +6.00% with Item No 4.10.04.02.01
4.10.04.02.03	For height above 10 m to 15 m	cum	Add +12.00% with Item No 4.10.04.02.01
4.10.04.02.04	For height above 15 m to 20 m	cum	Add +18.00% with Item No 4.10.04.02.01
4.10.04.02.05	For height above 20 m	cum	Add +24.00% with Item No 4.10.04.02.01
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	34,610.69
4.10.04.03.02	For height above 5 m to 10 m	cum	Add +6.50% with Item No 4.10.04.03.01
4.10.04.03.03	For height above 10 m to 15 m	cum	Add +13.00% with Item No 4.10.04.03.01
4.10.04.03.04	For height above 15 m to 20 m	cum	Add +19.50% with Item No 4.10.04.03.01
4.10.04.03.05	For height above 20 m	cum	Add +26.00% with Item No 4.10.04.03.01
4.10.05	PSC-45SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete work with 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-1, silica fume conforming to ASTM C 1240, 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 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 & direction of E-I-C. The cost of non prestressing reinforcement, HT Strand and its 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
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	36,854.35
4.10.05.01.02	For height above 5 m to 10 m	cum	Add +5.75% with Item No 4.10.05.01.01
4.10.05.01.03	For height above 10 m to 15 m	cum	Add +11.50% with Item No 4.10.05.01.01
4.10.05.01.04	For height above 15 m to 20 m	cum	Add +17.50% with Item No 4.10.05.01.01
4.10.05.01.05	For height above 20 m	cum	Add +23.00% with Item No 4.10.05.01.01

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.10.06	PSC-50SCBP: Providing and laying Cement Concrete in Pre-stressed Concrete work with 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-1, 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 & direction of E-I-C. The cost of non prestressing reinforcement, HT Strand and its 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. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
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	37,893.00
4.10.06.01.02	For height above 5 m to 10 m	cum	Add +5.75% with Item No 4.10.06.01.01
4.10.06.01.03	For height above 10 m to 15 m	cum	Add +11.50% with Item No 4.10.06.01.01
4.10.06.01.04	For height above 15 m to 20 m	cum	Add +17.25% with Item No 4.10.06.01.01
4.10.06.01.05	For height above 20 m	cum	Add +23.00% with Item No 4.10.06.01.01
4.10.07	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, fixing tendon support bars, supervising anti bursting reinforcements, maintaining 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, nonbleeding, 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	350,040.02
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	4,936.80
4.10.08.02	Anchorage Type: 7K13/ 7T13	set	5,077.85
4.10.08.03	Anchorage Type: 12K13/ 12T13	set	7,052.57
4.10.08.04	Anchorage Type: 19K13/ 19T13	set	11,002.01

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.10.08.05	Anchorage Type: 27K13/ 27T13	set	16,503.02
4.10.08.06	Anchorage Type: 37K13/ 37T13	set	22,004.02
4.10.08.07	Anchorage Type: 4K15/ 4T15	set	6,417.84
4.10.08.08	Anchorage Type: 7K15/ 7T15	set	9,873.60
4.10.08.09	Anchorage Type: 12K15/ 12T15	set	12,694.63
4.10.08.10	Anchorage Type: 19K15/ 19T15	set	14,810.40
4.10.08.11	Anchorage Type: 27K15/ 27T15	set	20,170.35
4.10.08.12	Anchorage Type: 37K15/ 37T15	set	22,920.86
4.10.08.13	TF_Ancr:Test Fee for 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 Excluding cos of Materials.	each	132,716.57
4.10.09	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 than 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	259,327.86
4.10.10	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.		
4.10.10.01	MSA: 1K13/ 1T13	set	1,416.93
4.10.10.02	MSA: 1K15/ 1T15	set	1,833.67
4.10.11	Stay Cables: Supplying, fabricating and fixing Stay Cables in position having a tendon formed from multiple and parallel 15.7mm dia. high tensile 7-wire steel low relaxation strands with nominal cross-sectional area of 150 mm ² and a minimum ultimate tensile strength of 1860 MPa, strands shall be galvanized and corrosion inhibited, a greased or waxed strand with a tightly extruded plastic sheathing, an outer thick-walled plastic stay pipe, factory prefabricated fixed/ adjustable anchorages, elastomeric dampers at the end of the form tube, appropriate saddle system (if required) including cost of equipment, labour etc. complete in all respect as per drawing, specification and direction of Engineer-in-charge. [Contractors generally do not have expertise for this item. The job is therefore, got done from specialised/patented firms who have the expertise in the field of stay cables. The prevailing rate in the market is required to be ascertained from the market and added in the cost estimate.]	LS	
4.10.12	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	1,005.85

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

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, tying 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 unless otherwise shown in the drawing, wastages, binding wire, concrete cover blocks 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.

4.11.01.01	Grade 300 (RB 300): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, f_y (ReH) = 300 MPa, but the tested yield strength shall not exceed f_y by more than the 125 MPa and the ratio of tested ultimate strength, f_u (Re) to tested yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.	kg	89.63
4.11.01.02	Grade 400 (RB 400/ 400W): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, f_y (ReH) = 400 MPa, but the tested yield strength shall not exceed f_y by more than the 125 MPa and the ratio of tested ultimate strength, f_u (Re) to tested yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively.	kg	101.40
4.11.01.03	Grade 420 (B420DWR): Ribbed or Deformed bar produced and marked as per ISO 6935-2:2015/ ASTM A706M - 16 with minimum yield strength, f_y (ReH) = 420 MPa but f_y (ReH) not exceeding 540 MPa, the ratio of ultimate tensile strength, f_u (Rm) to actual yield strength, f_y (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.	kg	100.74
4.11.01.04	Grade 500 (RB 500/ 500W): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield stress, f_y (ReH) = 500 MPa and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively. [This reinforcement shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.]	kg	100.09
4.11.01.05	Grade 550: Deformed bar produced and marked as per ASTM A706M - 16 with minimum yield strength, f_y = 550 MPa but f_y not exceeding 675 MPa, minimum ultimate strength, f_u = 690 MPa, the ratio of actual ultimate tensile strength, f_u to actual yield strength, f_y 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.]	kg	100.09
4.11.01.06	Grade 500 DWR: All reinforcement are of Grade 500 DWR high strength deformed bar conforming to BDS ISO 6935-2:2016 with Minimum yield strength, f_y (ReH)min = 500 Mpa but yield strength not exceeding 1.3 f_y (ReH)min, the ratio of ultimate tensile strength, f_u (Rm) to actual yield strength, f_y (ReH) shall be at least 1.25, minimum total elongation after fracture is 13% and minimum total elongation at maximum force is 8%	kg	100.09

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 20mm 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	13.46
4.11.02.02	For Re-bar diameter: 16mm to 50mm	kg	10.77
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	265.14
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 patented 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	296.08
4.11.04.02	For 32mm diameter rebar Coupler	each	400.71
4.11.04.03	For 40mm diameter rebar Coupler	each	609.98
4.11.04.04	For 50mm diameter rebar Coupler	each	675.38
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	178.44
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	198.04
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	41,272.67

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	222,238.08
4.11.06.03.02	Modular Strip Expansion: beyond 160 mm and up to 240 mm	m	331,317.58
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	183,192.48
4.11.06.04.02	EJ-F_100E: Finger Joint: Up to 100mm, With Elastic Seal	m	348,820.78
4.11.06.04.03	EJ-F_200: Finger Joint: 100mm to 200mm, Without Elastic Seal	m	282,826.08
4.11.06.04.04	EJ-F_200E: Finger Joint: 100mm to 200mm, With Elastic Seal	m	565,591.18
4.11.06.04.05	EJ-F_300: Finger Joint: 200mm to 300mm, Without Elastic Seal	m	576,341.28
4.11.06.04.06	EJ-F_300E: Finger Joint: 200mm to 300mm, With Elastic Seal	m	1,131,079.18
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	362.34
4.11.07.01.02	Each set beyond 150 mm diameter	kg	582.89
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	485.85
4.11.07.02.02	Each set with plate beyond 25 mm thick	kg	538.62
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	309.92
4.11.07.03.02	Each set with plate beyond 25 mm thick	kg	309.92
4.11.07.04	Hinge plate bearing with lead sheets including fitting & fixing	kg	309.92

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	2.89
4.11.08.01	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	37,344.97
4.11.09	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.		
4.11.09.01	25mm wide	m	106.79
4.11.09.02	20mm wide	m	85.47
4.11.10	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.		
4.11.10.01	PBG: Guided/ Free Type Pot Bearing	MT	1,154.21
4.11.10.02	PBF: Fixed Type Pot Bearing	MT	638.93
4.11.11	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	2,159.03

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4.11.12	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.		
4.11.12.01	STU_50: Up to 50 MT of Horizontal Load	MT	43,926.91
4.11.12.02	STU_50+: Above 50 MT of Horizontal Load	MT	32,430.96
4.11.13	HDRB: Supplying, fitting and fitting High Damping Rubber Bearing for seismic isolation in exact positions as per drawing, specifications 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	1,919.23
4.11.14	DB: Supplying, fitting and fitting Disc Bearing in exact positions as per drawing, specifications 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	3,198.31

Section-12: Chemical Admixture, Galvanizing & Curing Compound and Concrete Cover Blocks

4.12.01	Supplying and mixing specified type chemical admixture delivered from an authorized local agent or manufacturer, comply with the ASTM C 494 requirements, confirming 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 having and confirming plainly marked the proprietary name of the admixture, type under this specification, net weight or volume, manufacturing and expiry date, non aggressiveness to environment, aggregates and metals in concrete etc. and mixing the admixture in non prestressed cement concrete mixture in the field under the strict accordance with manufacturers recommendation and instruction, providing safety provisions in all respects etc. all complete as per instruction and approved by the E-I-C. Dose (quantity in milliliters 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 borne by the Contractor and shall be carried out prior to start the work. Note: The minimum cement specified shall not be reduced on account of the use of admixtures. Use of admixture is subject to prior approval of Central Quality Control Laboratory (CQCL), LGED or any specified laboratory approved by the Engineer.		
4.12.01.01	Supply and use of water reducing chemical admixture in concrete, complying to ASTM C 494 Type - A of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces quantity of mixing water required to produce concrete of a given consistency.	litre	173.37
4.12.01.02	Supply and use of retarding chemical admixture in concrete, complying to ASTM C 494 Type B of approved brand/origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that retards the setting of concrete, thereby reducing shrinkage in concrete specially for concrete laid in thick layers and intended delayed construction for improved construction joints, reconcreting etc.	litre	166.70
4.12.01.03	Supply and use of accelerating chemical admixture in concrete, complying to 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 accelerates the setting time and early strength development of concrete.	litre	180.03
4.12.01.04	Supply and use of water-reducing and retarding chemical admixture in concrete, complying to ASTM C 494 Type D of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency i.e. low w/c ratio and retards the setting of concrete specially for layered, thick laid concrete etc.	litre	166.70

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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. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency i.e. low w/c ratio and accelerates setting and early strength development of concrete.	litre	180.03
4.12.01.06	Supply and use of water-reducing high range chemical admixture in concrete, complying to ASTM C 494 Type F of approved brand/origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency by 12 or greater (flowing concrete) and for higher strength of concrete	litre	213.37
4.12.01.07	Supply and use of water-reducing high range and retarding chemical admixture in concrete, complying to ASTM C 494 Type G of approved brand/ origin/ manufacturer and supplied by only manufacturer's authorised dealer with certificate of origin. An admixture that reduces the quantity of mixing water required to produce concrete of a given consistency by 12% or greater (flowing concrete) and retards setting of concrete.	litre	213.37
4.12.02	Providing Film 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. All complete as per direction of E-I-C.		
4.12.02.01	30 Micron Film Galvanizing Compound for minimum 8 years protection against rust & corrosion.	sqm	1,998.13
4.12.02.02	40 Micron Film Galvanizing Compound for minimum 10 years protection against rust & corrosion.	sqm	3,052.10
4.12.02.03	40 Micron Film Galvanizing Compound including top coat of Polyurethane combined with micaceous iron oxide (MIO), aluminium and magnesium silicate for minimum 10 years protection against rust & corrosion.	sqm	3,789.41
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 m ² /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/m ² 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	148.10
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 surrounding concrete as far as practicable. Concrete cover blocks made on the construction site should not be used. [The volume 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 Volume = 0.0022 cum/100 Nos.]	Nos.	3.21
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 Volume = 0.0067 cum/100 Nos.]	Nos.	7.69
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 Volume = 0.0082 cum/100 Nos.]	Nos.	10.26
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 Volume = 0.0186 cum/100 Nos.]	Nos.	15.39
4.12.04.05	CCB-M100/110: Concrete Cover Block with 100/110 mm clear cover facility for top layer of slab reinforcement [Concrete Volume = 0.0216 cum/100 Nos.]	Nos.	19.23

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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.	12.82
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.	38.47
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.	12.82

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 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, 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 & direction of E-I-C.	cum	12,888.16
4.13.02	RWDP: 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	593.10
4.13.02.02	RWDP50GI: 50mm dia GI pipe of 2.90mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	708.67
4.13.02.03	RWDP65GI: 65mm dia GI pipe of 3.25mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	1,069.43
4.13.02.04	RWDP80GI: 80mm dia GI pipe of 3.25mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	1,184.69
4.13.02.05	RWDP100GILC: 100mm dia GI pipe of 3.65mm wall thickness conforming to BDS 1031/ BS 1387 Light Class	m	1,691.66
4.13.02.06	RWDP100GIMC: 100mm dia GI pipe of 4.05mm wall thickness conforming to BDS 1031/ BS 1387 Medium Class	m	2,419.03
4.13.02.07	RWDP50PVC: 50mm uPVC Pipe of 2.5mm to 3mm wall thickness conforming to BS 3505	m	176.87
4.13.02.08	RWDP75PVC: 75mm uPVC Pipe of 2.9mm to 3.4mm wall thickness conforming to BS 3505	m	288.19
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	2,764.88
4.13.04	WH: Providing weep holes in Brick masonry/ Plain/ Reinforced concrete retaining wall, abutment, wing/ return wall, with 50 - 100 mm dia PVC 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) wrapped in filter fabric in the back of each weep hole etc. all complete as per direction of the E-I-C. [Cost of PVC pipe is included in this item and shall not be paid separately.]	each	638.44

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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 respect 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	6,254.12
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: 2006 (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	591.51
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	281.04
4.13.07.02	PS_20: 25mm thick cork/ polystyrene sheet	sqm	265.50
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	2,093.88
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 Road Design Standard - 2005, 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 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	986.26
4.13.09.02	MA_25: 25mm thick mastic asphalt wearing course	sqm	1,189.77

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 1.5 and 40 mm down well graded shingles to attain a minimum 28 days cylinder strength of 9.00 MPa (suggested mix proportion 1:3:6) 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, equipment 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]		

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4.14.01.01	Size: 400 mm x 400 mm x 150 mm	each	234.38
4.14.01.02	Size: 500 mm x 500 mm x 150 mm	each	365.02
4.14.01.03	Size: 500 mm x 500 mm x 200 mm	each	477.56
4.14.01.04	Cast-in-Situ Blocks of required sizes as per drawing	cum	10,194.68
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, transportation and all other incidental charges etc. all complete as per drawing, specification & direction of the E-I-C.	cum	1,130.81
4.14.03	Providing brick matressing 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, equipment & 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	1,007.96
4.14.03.02	Double Layer Soling of 1st Class/ picked bricks	sqm	1,480.93
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	757.43
4.14.04.02	Two layers of Gunny Bagged Riprap	sqm	1,463.13
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	300.82
4.14.05.02	Bullah piles of 200mm to 250mm diameter	m	559.08
4.14.06	Labour for 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 iron ring and cutting and shaping heads before and after driving and including hire and labour for necessary driving appliances etc. complete in all respect as per direction of the Engineer-in-Charge. Pamyment to be made on the length driven into the ground.		
4.14.06.01	Bullah piles of 150mm to 200mm diameter		
4.14.06.01.01	For driving from ground with staging	m	282.74
4.14.06.01.02	For driving from pontoon or boats with staging	m	Add +4.00% with Item No 4.14.06.01.01
4.14.06.01.03	For driving from pontoon or boats with heavy staging	m	Add +7.00% with Item No 4.14.06.01.01
4.14.06.02	Bullah piles of 200mm to 250mm diameter		
4.14.06.02.01	For driving from ground with staging	m	412.90
4.14.06.02.02	For driving from pontoon or boats with staging	m	Add +4.00% with Item No 4.14.06.02.01
4.14.06.02.03	For driving from pontoon or boats with heavy staging	m	Add +7.00% with Item No 4.14.06.02.01

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4.14.07	Providing & Installation 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	30,650.02
4.14.08	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 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 Volume: 0.0520 cum & Weight: 80 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	147.75
4.14.08.02	Geo-Textile Bag: Empty Bag Size: 900mm x 700mm, Fill Volume: 0.0730 cum & Weight: 110 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	176.48
4.14.08.03	Geo-Textile Bag: Empty Bag Size: 950mm x 750mm, Fill Volume: 0.0840 cum & Weight: 125 Kg Geo-Textile Grade: Grade-III-DF-40-2.3mm thick	bag	198.62
4.14.08.04	Geo-Textile Bag: Empty Bag Size: 1075mm x 850mm, Fill Volume: 0.1164 cum & Weight: 175 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	313.11
4.14.08.05	Geo-Textile Bag: Empty Bag Size: 1100mm x 850mm, Fill Volume: 0.1333 cum & Weight: 200 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	325.59
4.14.08.06	Geo-Textile Bag: Empty Bag Size: 1300mm x 1050mm, Fill Volume: 0.1664 cum & Weight: 250 Kg Geo-Textile Grade: Grade-V-DF-60-3.0mm thick	bag	442.23
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	9,898.27
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	2,352.03
4.14.10.02	Double row bamboo spur: dia. = 75mm, Length = 3.0m to 4.5m	m	2,252.03
4.14.10.03	Double row bamboo spur: dia. = 75mm, Length = 4.5m to 6.0m	m	3,772.38
4.14.10.04	Double row bamboo spur: dia. = 100mm, Length = 7.5m to 11.0m	m	6,614.46
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	825.21

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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 $\geq 85 \times 32$, Width(m) ≥ 1 , Mass per unit area (gsm) = $627 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 10\%$, AOS (O95) (μm) ≤ 450 , Vertical Permeability (m/sec) $\geq 3.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 7.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 850 \times 200$, Grab Tensile Elongation (%) MD x CD $\leq 30 \times 35$, CBR Puncture Resistance (N) ≥ 2000 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 20 \times 10$, Wide Width Elongation (%) MD x CD $\leq 12 \times 10$.	sqm	172.11
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 $\geq 94 \times 39$, Width(m) ≥ 1 , Mass per unit area (gsm) = $724 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 10\%$, AOS (O95) (μm) ≤ 300 , Vertical Permeability (m/sec) $\geq 2.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 6.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 925 \times 425$, Grab Tensile Elongation (%) MD x CD $\leq 35 \times 40$, CBR Puncture Resistance (N) ≥ 2150 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 25 \times 10$, Wide Width Elongation (%) MD x CD $\leq 15 \times 12$.	sqm	199.53
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 River Bank Protection work. This type of treated JGT shall have the following requirements. Ends x Picks /dm $\geq 85 \times 32$, Width(m) ≥ 1 , Mass per unit area (gsm) = $627 \pm 15\%$, Thickness under 2 kPa pressure (mm) = $2.0 \pm 20\%$, AOS (O95) (μm) ≤ 150 , Vertical Permeability (m/sec) $\geq 1.0 \times 10^{-3}$, Horizontal Permeability (m/sec) $\geq 6.0 \times 10^{-3}$, Grab Tensile Strength (N) MD x CD $\geq 950 \times 230$, Grab Tensile Elongation (%) MD x CD $\leq 35 \times 45$, CBR Puncture Resistance (N) ≥ 2500 , Wide Width Tensile Strength (KN/m) MD x CD $\geq 20 \times 10$, Wide Width Elongation (%) MD x CD $\leq 12 \times 10$.	sqm	233.05
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 $\leq 2000\text{mm}$. This type of JGT shall have the following requirements. Ends x Picks /dm $\geq 6.5 \times 4.5$, Width(m) = 1.22, Mass per unit area (gsm) = $500 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $4.5 \pm 10\%$, Water Holding Capacity (% by weight) ≥ 400 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 6.5 \times 6.0$, Wide Width Elongation (%) MD x CD $\leq 14.0 \times 14.0$.	sqm	65.48
4.14.14.02	JGT_HSM-2: Applicable for Moderate slope (≤ 35 degree) & annual rainfall $\geq 2000\text{mm}$ and steep slope (> 35 degree to ≤ 45 degree) & annual rainfall $\leq 2000\text{mm}$. This type of JGT shall have the following requirements. Ends x Picks /dm $\geq 8 \times 7$, Width(m) = 1.22, Mass per unit area (gsm) = $600 \pm 10\%$, Thickness under 2 kPa pressure (mm) = $5.5 \pm 10\%$, Water Holding Capacity (% by weight) ≥ 400 , Wide Width Tensile Strength (kN/m) MD x CD $\geq 12.0 \times 6.0$, Wide Width Elongation (%) MD x CD $\leq 14.0 \times 14.0$.	sqm	70.05

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4.14.14.03	JGT_HSM-3: Applicable for steep slope (>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	74.62
4.14.15	SMSP:Supplying best quality MS pipes of different diameter 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	1,750.32
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	60.59
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	2,625.48
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	87.52
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	4,725.86
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	154.84
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	8,791.99
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	565.49
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-Beam etc	kg	106.79
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	26.54
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	80.78
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	104,433.96
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	21,136.68
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	421.02
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	329.46
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	61.40
4.14.18.02	Cross ties walling pieces	m	16.16
4.14.18.03	Old bamboo pieces and struts	m	12.93

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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	7,597.72
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 fittings 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	9,616.29
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, specification & the direction of the E-I-C.		
4.15.03.01	50mm dia. and wall thickness 4mm	m	1,158.06
4.15.03.02	75mm dia. and wall thickness 4mm	m	1,382.46
4.15.03.03	100mm dia. and wall thickness 4mm	m	2,215.95
4.15.03.04	150mm dia. and wall thickness 4mm	m	3,257.81
4.15.03.05	200mm dia. and wall thickness 6.5mm	m	5,758.26
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, specification & the direction of the E-I-C.		
4.15.04.01	Size: 25mm x 25mm MS box and wall thickness 4mm	m	693.24
4.15.04.02	Size: 40mm x 40mm MS box and wall thickness 4mm	m	893.59
4.15.04.03	Size: 50mm x 50mm MS box and wall thickness 6mm	m	1,526.72
4.15.04.04	Size: 62.5mm x 62.5mm MS box and wall thickness 6mm	m	1,815.24
4.15.04.05	Size: 75mm x 75mm MS box and wall thickness 8mm	m	2,889.15
4.15.04.06	Size: 100mm x 100mm MS box and wall thickness 8mm	m	3,698.59
4.15.04.07	Size: 125mm x 125mm MS box and wall thickness 8mm	m	4,540.09
4.15.04.08	Size: 125mm x 125mm MS box and wall thickness 10mm	m	5,501.81
4.15.04.09	Size: 150mm x 150mm MS box and wall thickness 8mm	m	5,293.44
4.15.04.10	Size: 150mm x 150mm MS box and wall thickness 10mm	m	6,463.52
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	642.12

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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 275 x 16mm thick, providing 32mm dia MS/GI pipe for incoming and outgoing cable connection to junction 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 bracket/ 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	21,641.48
4.15.07	Lighting on Bridge Approaches: Supplying and Installation of mild steel hollow bent light pole of specified length 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 junction 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 bracket/ 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	28,742.73
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	24,917.03
4.15.08	Construction of pre-cast/ Cast-in-situ RCC Railing of specified 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 Standard For LGED- June 2012, approved drawings, technical specification and approval of E-I-C. The cost of reinforcement and its fabrication, binding, welding and placing is included in this unit rate.		
4.15.08.01	Pre-cast RCC Railing of 25 MPa concrete	m	4,071.82
4.15.08.02	Cast-in-Situ RCC Railing of 25 MPa concrete	m	3,678.91
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, specification & the direction of the Engineer in charge.		
4.15.09.01	25mm dia. and wall thickness 1.5mm	m	669.19
4.15.09.02	38mm dia. and wall thickness 2.5mm	m	1,270.26
4.15.09.03	50mm dia. and wall thickness 2.50mm	m	1,670.98
4.15.09.04	62.50mm dia. and wall thickness 3.00mm	m	2,456.38
4.15.09.05	75mm dia. and wall thickness 3.00mm	m	2,857.09
4.15.09.06	100mm dia. and wall thickness 3.00mm	m	4,059.24
4.15.09.07	125mm dia. and wall thickness 3.00mm	m	5,261.38
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, specification & the direction of the Engineer in charge.		
4.15.10.01	Size: 25mm x 25mm Stainless Steel box and wall thickness 2.00mm	m	1,045.86
4.15.10.02	Size: 32mm x 32mm Stainless Steel box and wall thickness 1.50mm	m	1,021.82

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4.15.10.03	Size: 38mm x 38mm Stainless Steel box and wall thickness 2.50mm	m	1,598.85
4.15.10.04	Size: 50mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,975.52
4.15.10.05	Size: 62.5mm x 62.5mm Stainless Steel box and wall thickness 2.00mm	m	2,528.51
4.15.10.06	Size: 50mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	1,222.18
4.15.10.07	Size: 75mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	1,590.84
4.15.10.08	Size: 75mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	2,384.25
4.15.10.09	Size: 100mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	2,961.28
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	85.85
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 coats of synthetic enamel 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	3,712.89
4.15.13	Navigation Lights for Bridges: Furnish and install navigation lighting systems, including all wiring, conduit, wiring devices, transformers, enclosures, grounding system, controls, protective devices, lights, etc. as shown in the drawings and in compliance with current regulations from BIWTA/ code of Federal Regulations (CFR), Title 33, Part 118/ U.S. Coast Guard (USCG) publication "A Guide to Bridge Lighting". Navigation lights must operate from sunset to sunrise and during periods of low visibility. Fasteners of light shall be made from ASTM 316 stainless steel with yield strength 250 MPa or higher, conduit straps or hangers shall be made from ASTM 300 series stainless steel and framework for supporting boxes, switches & other externally mounted electrical devices shall be fabricated from ASTM A 709 grade 250 hot-dip galvanized structural steel, navigation lights shall be a LED array with a minimum of 50000 hour life and bright enough to meet the visibility requirement of CFR Title 33, Part 118.		
4.15.13.01	Pier/fender Light: equipped with a red 180 degree lens, defining the piers on the bridge.	LS	
4.15.13.02	Channel Center Light: equipped with a green 360 degree lanterns, forming a range under the lip of bridge and marking the center of the navigable channel, visible from both approach channels: up and down stream.	LS	
4.15.13.03	Channel Margin light: equipped with a red 180 degree lens, positioned above the lip of the span, defining the limits of the navigable channel.	LS	
4.15.13.04	Channel Axis light: equipped with a red 180 degree lens defining any bend in the channel or turn in the pier structures on a bridge.	LS	

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 running 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	9,447.88
4.16.01.02	Span beyond 20 m and upto 30 m	per end	11,371.31
4.16.01.03	Span beyond 30 m	per end	19,065.02

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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	435.34
4.16.02.02	Bituminous wearing course of avg. 50mm thick asphaltic concrete laid over 12 mm thick mastic asphalt	sqm	373.79
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, inserted 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, admixtures to portland 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	313.18
4.16.03.02	Cement Mortar (1:1) Grout	kg	321.04
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 hardener, 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 cracks are completely 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 personnel and supervision and take approval from Design Unit, LGED.	kg	1,136.75
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 equipment is available), water and quick setting compound conforming to ASTM C 1141 in the proportion as per guidance 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	1,778.39
4.16.06	Patching of damages concrete surface with 25mm thick (avg.) polymer concrete and curing compounds, initiator and promoter, available in present formulations, to be applied as per instruction of manufacturer and as approved by the E-I-C. This item is a proprietary item available in market as pre-packed polymer concrete and is required to be applied as per instructions of the manufacturer.	sqm	2,377.20
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.	sqm	780.78
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	1,173.88
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	896.70

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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 expansion joints may be taken from the chapter 11 on Bridge Works.	m	3,994.33
4.16.11	Clearing slab/ box/ pipe culverts including cleaning and reshaping 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	144.83
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 of bridge	33.26
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 Standard For LGED- June 2012, 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	4,036.02
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	314.46
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 flexural 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	135,119.10
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	75.27
4.16.16.02	CBA_10: Diameter of Rebar = 10mm, minimum drilling diameter = 14mm, minimum drilling depth = 90mm	each	112.61
4.16.16.03	CBA_12: Diameter of Rebar = 12mm, minimum drilling diameter = 16mm, minimum drilling depth = 110mm	each	163.32
4.16.16.04	CBA_16: Diameter of Rebar = 16mm, minimum drilling diameter = 20mm, minimum drilling depth = 125mm	each	295.80
4.16.16.05	CBA_20: Diameter of Rebar = 20mm, minimum drilling diameter = 25mm, minimum drilling depth = 170mm	each	591.78
4.16.16.06	CBA_25: Diameter of Rebar = 25mm, minimum drilling diameter = 32mm, minimum drilling depth = 250mm	each	1,577.77
4.16.16.07	CBA_32: Diameter of Rebar = 32mm, minimum drilling diameter = 40mm, minimum drilling depth = 300mm	each	2,366.94

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4.16.17	EP: Providing external prestressing with high tensile steel wires/strands including drilling for passage of prestressing 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	511,067.74
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	1,547,797.74
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	10.42
4.16.18.02	RR_12+: Bars above 12 mm diameter	m	20.79

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 in leanest 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	1,746.68
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	2,959.67
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	3,440.14
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	4,339.44
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	5,140.09
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	6,420.65
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	7,798.34

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4.17.01.02	For Heavy Traffic: Cross drains/ culverts/ outlet and any other works carrying heavy traffic in leanest mix 1:1.25:2.5 with cement conforming to BDS EN 197-1 : 2003 BDS EN 197-1 : 2003 CEM-I 52.5N / ASTM C150 Type-1, 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 @ 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	2,120.04
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	3,568.66
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	4,287.96
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	5,991.82
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	6,876.58
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	8,677.85
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	10,371.63
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	13,333.66
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	14,879.83
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	17,152.24
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	23,503.79
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	29,104.71
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	36,818.41

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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	42,956.20

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 carborundum 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.		
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	15,187.39
4.18.01.02	Additional charge on Mobilization & demobilization beyond 100km of dhaka/ nearby source to site	per km	32.06
4.18.01.03	RHT on each additional spot after 10(ten) spots tested.	each	1,518.74
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 imperfections 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 carborundum 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	21,919.39
4.18.02.02	Additional charge on Mobilization & demobilization beyond 100km of dhaka/ nearby source to site	per km	32.06
4.18.02.03	UPV on each additional spot after 10(ten) spots tested.	each	2,191.94
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 concrete 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	23,265.79
4.18.03.02	Additional charge on Mobilization & demobilization beyond 100km of Dhaka/ nearby source to site	per km	44.88
4.18.03.03	In-situ core cutting on each additional nos. after 3(three) spots	each	6,085.73
4.18.04	Load Test on Bridge Deck: Providing and carrying out load test on bridge deck with simulated loading including provision, placing and removal of loading, supplying, fixing and removing deflection measuring instruments etc, complete with platform for fixing the instrument etc. complete as per the details specified and specifications and as directed by the engineer-in-charge and including submission of required results triplicate after satisfaction of the load tests.	LS	

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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.		
4.19.01.01	Pile diameter: 200mm		
4.19.01.01.01	Sand Volumn 0.075 cum/m, minimum FM = 1.5	m	205.59
4.19.01.01.02	Sand Volumn 0.075 cum/m, minimum FM = 1.8	m	223.87
4.19.01.01.03	Sand Volumn 0.075 cum/m, minimum FM = 2.5	m	290.23
4.19.01.01.04	Sand Volumn 0.1 cum/m, minimum FM = 1.5	m	255.56
4.19.01.01.05	Sand Volumn 0.1 cum/m, minimum FM = 1.8	m	279.92
4.19.01.01.06	Sand Volumn 0.1 cum/m, minimum FM = 2.5	m	368.40
4.19.01.01.07	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	378.19
4.19.01.01.08	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	414.74
4.19.01.01.09	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	547.46
4.19.01.02	Pile diameter: 250mm		
4.19.01.02.01	Sand Volumn 0.1 cum/m, minimum FM = 1.5	m	262.26
4.19.01.02.02	Sand Volumn 0.1 cum/m, minimum FM = 1.8	m	286.62
4.19.01.02.03	Sand Volumn 0.1 cum/m, minimum FM = 2.5	m	375.10
4.19.01.02.04	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	393.60
4.19.01.02.05	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	430.14
4.19.01.02.06	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	562.86
4.19.01.02.07	Sand Volumn 0.20 cum/m, minimum FM = 1.5	m	510.98
4.19.01.02.08	Sand Volumn 0.20 cum/m, minimum FM = 1.8	m	559.70
4.19.01.02.09	Sand Volumn 0.20 cum/m, minimum FM = 2.5	m	736.66
4.19.01.02.10	Sand Volumn 0.25 cum/m, minimum FM = 1.5	m	630.45
4.19.01.02.11	Sand Volumn 0.25 cum/m, minimum FM = 1.8	m	691.36
4.19.01.02.12	Sand Volumn 0.25 cum/m, minimum FM = 2.5	m	912.55
4.19.01.03	Pile diameter: 300mm		
4.19.01.03.01	Sand Volumn 0.15 cum/m, minimum FM = 1.5	m	404.95
4.19.01.03.02	Sand Volumn 0.15 cum/m, minimum FM = 1.8	m	441.49
4.19.01.03.03	Sand Volumn 0.15 cum/m, minimum FM = 2.5	m	574.21
4.19.01.03.04	Sand Volumn 0.20 cum/m, minimum FM = 1.5	m	539.94
4.19.01.03.05	Sand Volumn 0.20 cum/m, minimum FM = 1.8	m	588.66
4.19.01.03.06	Sand Volumn 0.20 cum/m, minimum FM = 2.5	m	765.62
4.19.01.03.07	Sand Volumn 0.25 cum/m, minimum FM = 1.5	m	674.93
4.19.01.03.08	Sand Volumn 0.25 cum/m, minimum FM = 1.8	m	735.84
4.19.01.03.09	Sand Volumn 0.25 cum/m, minimum FM = 2.5	m	957.03
4.19.01.03.10	Sand Volumn 0.30 cum/m, minimum FM = 1.5	m	809.92

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4.19.01.03.11	Sand Volumn 0.30 cum/m, minimum FM = 1.8	m	883.01
4.19.01.03.12	Sand Volumn 0.30 cum/m, minimum FM = 2.5	m	1,148.44
4.19.01.03.13	Sand Volumn 0.35 cum/m, minimum FM = 1.5	m	944.88
4.19.01.03.14	Sand Volumn 0.35 cum/m, minimum FM = 1.8	m	1,030.16
4.19.01.03.15	Sand Volumn 0.35 cum/m, minimum FM = 2.5	m	1,339.83
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 thoroughly 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	1,356.18
4.19.02.01.02	Fill Volumn 0.3 cum/m	m	1,908.69
4.19.02.02	For 500mm diameter:		
4.19.02.02.01	Fill Volumn 0.6 cum/m	m	3,314.33
4.19.02.02.02	Fill Volumn 0.8 cum/m	m	4,335.12
4.19.03	Prefabricated Vertical Drain (PVD)/ Wick Drain: Supply & Installation of prefabricated vritcal 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 conjunction 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 geotextile 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	267.92

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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 m ³ /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	239.65
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 including/ excluding cement to achieve minimum dry density of 90% with optimum moisture 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	5,543.60
4.19.04.02	Cement: Sand: Khoa: = 1:6:12	cum	6,535.29
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, capping 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.	sqm	5,278.24
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.		
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	1,264.81
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	1,264.81
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	644.18
4.19.05.02.04	MSE_MSR_SS: With reinforcing element of Stainless steel strips of 60mm wide and 5mm thick.	m	644.18
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	1,264.81

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
4.19.05.02.06	MSE_GTR: With reinforcing elements of synthetic geogrids.	sqm	302.84
4.19.05.02.07	MSE_HDGSR: With reinforcing elements of high yield ribbed/ deformed steel reinforcement complying with BDS ISO 6935-2: 2006 and fully hot-dip Galvanized to BS EN ISO 1461: 1999 with minimum coat thickness of 85 microns or 610 gm per meter square surface.	kg	210.42
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	2,762.32
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	3,269.11
4.19.06.02	JGC_800: Diameter of Jet grouted column = 800 mm	m	5,838.18
4.19.06.03	JGC_1000: Diameter of Jet grouted column = 1000 mm	m	9,107.28
4.19.06.04	JGC_1200: Diameter of Jet grouted column = 1200 mm	m	13,106.60
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 contractor shall submit the Methodology for the installation of Soil Nail to the Engineer-in-charge for prior written approval (at least 7 days) before the commencement of works. The contractor 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 6935-2:2006)	m	1,442.23
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 wrenches, 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	811.12

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Item Code	Brief Description of Item	Unit	Rate
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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 contractor 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	9,453.97
4.19.10.02	RD_300: Diameter of Drill Hole: 300 mm	m	10,810.89
4.19.11	RRSheeting: Supplying and fixing retro-reflectorised reflective sheeting on cautionary, mandatory and informatory signs ensuring the safety of the boat and the bridge for navigation purposes 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 it proper visible places at the middle of the bridge, 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	

Chapter 5

Building Works

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

Chapter - 5 : Building Works**Section-01: Preparatory Works**

5.01.01	Providing Layout and carry over Bench Mark (BM) at site from nearby BM pillar, demarcating property lines, existing ground level (EGL), formation ground level (FGL), highest flood level (HFL), plinth level (PL). Setting and marking all pillars, markers, pegs etc. showing and maintaining reduced levels (RLs) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white etc. all complete as per direction of the E-I-C.	sqm	12.73

Section-02: Excavation, Filling, Site Development, Palisading Works & Shore Protection

5.02.01	Earthwork in excavation of foundation trenches, including layout, by excavating earth to the lines, grades and elevation as shown in the drawing providing center lines, local bench mark pillars, fixing bamboo spikes and marking layout with chalk powder filling baskets, carrying and disposing of all excavated materials at a safe distance designated by the E-I-C in all types of soils except rocky, gravelly, slushy or organic soil, leveling, ramming, dressing and preparing the base, etc. all complete for an initial excavation depth of 2m and an initial lead not exceeding 20m, including arranging all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	205.01
5.02.02	Sand filling in foundation trenches and inside plinth with sand (minimum FM 0.50) in 150mm layers in/c leveling, watering and consolidating each layer up to finished level etc. all complete as per direction of the E-I-C. Dry density after compaction shall not be less than 95% of MDD (STD).	cum	973.58
5.02.03	Sand filling in foundation trenches and inside plinth with sand (minimum FM 0.80) in 150mm layers in/c leveling, watering and consolidating each layer up to finished level etc. all complete as per direction of the E-I-C. Dry density after compaction shall not be less than 95% of MDD (STD).	cum	1,084.17
5.02.04	Sand filling in foundation trenches and inside plinth with sand (minimum FM 1.20) in 150mm layers in/c leveling, watering and consolidating each layer up to finished level, etc. all complete as per direction of the E-I-C. (to be used only if required by the design). Dry density after compaction shall not be less than 95% of MDD (STD).	cum	1,119.56
5.02.05	Sand filling in foundation trenches and inside plinth with sand (minimum FM 2.50) in 150mm layers in/c leveling, watering and consolidating each layer up to finished level etc. all complete as per direction of the E-I-C. (to be used only required by the design). Dry density after compaction shall not be less than 95% of MDD (STD).	cum	2,750.50
5.02.06	Earth filling inside plinth in 150mm layers with earth available within 90m of the building site, watering, leveling and consolidating each layer up to finished level, etc. all complete as per direction of the E-I-C.. Dry density after compaction shall not be less than 90% of MDD (STD).	cum	533.43
5.02.07	Site improvement/earth filling in foundation trenches and plinth with specified soil in/c supplying, carrying, filling by throwing earth in 150mm layers with carted earth carried by truck or any other means to be supplied at the contractor's own cost etc. all complete as per direction of the E-I-C. (Carried from a distance beyond 200m).		
5.02.07.1	Municipal Area.	cum	455.47
5.02.07.2	Outside municipal area.	cum	424.69
5.02.08	Manual compaction of earth in 150mm thick compacted layers by breaking clods to a maximum size of 25mm using wooden drag or ladder and compacting using concrete drop hammer (Durmus), watering or drying to obtain optimum moisture content if necessary including supplying of wooden drag, ladder, bamboo hammer, steel/concrete hammer and other requisite tools, etc. all complete as per direction of the E-I-C. 85% compaction of the maximum dry density is to be obtained by the standard compaction test (Rate is for each layer of 150mm thick)	cum	49.24
5.02.09	Mechanical compaction of earthworks in 150mm thick compacted layers by breaking clods to a maximum size of 25mm using wooden drag or ladder and compacting using mechanical equipment, watering or drying to obtain optimum moisture content watering if necessary including the equipment and other tools required to work site, etc. all complete as per direction of the E-I-C. 98% compaction of the maximum dry density is to be obtained by the standard compaction test (Rate is for each layer of 150mm thick).	cum	45.64
5.02.10	Supplying of straight and strong borak bamboo posts of having minimum 75 mm diameter although and driving the same vertically in the ground up to required depth by any means shaping the top of the post, all complete and as directed by the Engineer.	m	66.51

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Item Code	Brief Description of Item	Unit	Rate
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5.02.11	Supplying wooden ballah having an average diameter not less then 150 mm (without barks) at one third distance from large end with a minimum end diameter of 100 mm for retaining purpose and driving to a depth as per design drawing by any method including all arrangement for staging. hoisting, carrying etc. complete and as directed by the E-I-C.	m	760.34
5.02.12	Palisading work by Supplying bitumen drum sheet walling tied with 20 BWG G. I wire fixing the same with alrely driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails. G.I wire etc. all complete and as directed by the E-I-C.. (Rate is excluding the cost of bamboo post)	sqm	935.96
5.02.13	Supplying and fitting – fixing horizontal barcing in palisading with ½ split wooden ballah having an average diameter not less then 150 mm with a minimum end diameter of 100 mm @ 450 mm c/c including supply of iron nails, gazals etc. complete as directed approved and accepted by the E-I-C.	m	364.63
5.02.14	Shore protection work during excavation in foundation trenches up to 1.5 m depth, to protect loose soil due to damage of property by supplying Bitumen drum sheet walling tied with 20 gauge G. I wire, fixing the same with already driven bamboo posts with half split Borrak bamboo runners @450mm c/c horizontally with iron nail, G.I wire etc. all complete as plan and direction of E-I-C. (the rate is including cost of vertical posts)	sqm	664.35
5.02.15	Shore protection work during excavation in foundation trenches to protect loose soil due to damage of property with bitumen drum sheet fitted with gazari post 150mm minimum dia, 0.90m c/c to be driven half of the total length of the post Drum sheet to be fitted with Garzan wooden batten 50mmx50mm size at 0.60 meter c/c supplying and fixing with 150mm dia gazari post crosses 1.80 meter c/c fixed with necessary nuts and bolts at the slope side of palisading and tied up the palisading work by GI wire No. 10 with gazari past 150mm dia and 1.8 meter c/c driven at the opposite direction up to 1.20 meter depth including supplying all necessary nails and spikes etc. complete as per direction of E-I-C. (Payment will be made for the work above ground levels.)(the rate is including cost of vertical posts)	sqm	1,311.60
Section-03: Brick Soling, Cement Concrete & DPC etc.			
5.03.01.01	Single layer brick flat soling with 1st class or picked bricks, true to level, camber/super elevation and grade including carrying bricks, filling the interstices tightly with sand of minimum FM 0.80, etc. all complete as per direction of the E-I-C.	sqm	480.85
5.03.01.02	SCBFS (FM-0.80) Providing Single Layer Solid Concrete Block Flat Soling (SCBFS) with Solid Concrete Blocks having minimum compressive strength of 20 Mpa, true to level, maintaining camber/super elevation and grade including filling the interstices tightly with sand of minimum FM 0.80, etc. all complete in all respect as per approved drawing, specification and direction of the Engineer-in-charge. Solid Concrete Block Size (240mmx110mmx70mm to (215mmx100mmx70mm	sqm	926.27
5.03.02	Brick on edge pavement in single layer of Herring Bone Bond with 1st class or picked bricks true to level, 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. all complete as per direction of the E-I-C.	sqm	820.70
5.03.03	Brick on end edging (75mm across) with 1st class/picked bricks including cutting trenches true to level & grade including removing earth, re-filling & ramming the sides properly & filling the gaps with local sand, etc. all complete as per direction of the E-I-C.	m	127.57
5.03.04	Mass concrete work in foundation or floor with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips (LAA value not exceeding 38), including shuttering, mixing by concrete mixer machine, casting, laying compacting with mechanical vibrator machine and curing for the requisite period breaking bricks into chips etc. all complete as per direction of the E-I-C. Cylinder crushing strength of concrete should not be less than 10.5Mpa at 28 days of curing (suggested mix proportion 1:3:6). Additional quantity of cement to be added if required to attain the strength at the contractors own cost.		
5.03.04.01	Mass concrete in foundation (1:3:6) with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips.	cum	8,841.11
5.03.04.02	Mass concrete in floor (1:3:6) with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips..	cum	9,082.11

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5.03.05	Mass concrete work in foundation or floor with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips (LAA value not exceeding 38), including shuttering, mixing by concrete mixer machine, casting, laying compacting with mechanical vibrator machine and curing for the requisite period breaking bricks into chips etc. all complete as per direction of the E-I-C. Cylinder crushing strength of concrete should not be less than 17Mpa at 28 days of curing (suggested mix proportion 1:2:4). Additional quantity of cement to be added if required to attain the strength at the contractors own cost.		
5.03.05.01	Mass concrete in foundation (1:2:4) with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips.	cum	9,732.47
5.03.05.02	Mass concrete in floor (1:2:4) with Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.20) and 20mm down well graded 1st class/picked brick chips.	cum	9,969.04
5.03.06	75mm thick lean cement concrete (1:3:6) in floor and wherever needed with Portland Composite Cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.2) and 20mm down well graded picked brick chips (LAA value not exceeding 38), in/c breaking bricks into chips screening, mixing by concrete mixer machine, laying, compacting, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.	sqm	662.31
5.03.07	25mm thick Damp Proof Course (DPC) with cement concrete (1:2:4) in Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.80) and 10mm down well graded 1st class/picked brick chips (LAA value not exceeding 38), in/c casting by concrete mixture machine, compacting, curing for requisite period, coal tar/bitumen painting, etc. all complete as per direction of the E-I-C.	sqm	401.83
5.03.08	38mm thick Damp Proof Course (DPC) with cement concrete (1:1.5:3) in Portland Composite Cement (CEM II/AM, 42.5N), sand (minimum FM 1.80) and 10mm down well graded 1st class/picked brick chips (LAA value not exceeding 38), in/c casting by concrete mixture machine, compacting, curing for requisite period, coal tar/bitumen painting, etc. all complete as per direction of the E-I-C.	sqm	531.85
5.03.09	Providing single layer polythene sheet (0.18mm thick) weighing one kilogram per 6.5 square meter in floor or any where in ground floor underneath the cement concrete, etc. all complete as per specifications and direction of the E-I-C.	sqm	22.06
5.03.10	Dismantling of existing/damaged cement concrete work in foundation or floor works on any type of works manually or any other means without any damage in structure and sorting the dismantled materials disposal of unserviceable materials and stacking the serviceable materials properly for measurement for all floors, 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.etc. all complete as per direction of the E-I-C.	cum	969.41
Section-04: Brick Works & Fancy Screen Block Works			
5.04.01	Brick work with 1st class bricks in cement mortar (1:6) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.	cum	7,956.12
5.04.02	Brick work with 1st class bricks in cement mortar (1:4) in foundation and plinth with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), filling the interstices tightly with mortar, raking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.	cum	8,332.04
5.04.03	Brick work of Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:6) in superstructure with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines, in/c raking out joints, filling interstices tightly with mortar, cleaning and soaking bricks at least for 24 hours before use, washing of sand, necessary scaffolding, curing for requisite period, etc. all complete as per direction of the E-I-C.		
5.04.03.01	Kiln bricks		
5.04.03.01.1	Ground Floor	cum	8,400.32
5.04.03.01.2	Add for each additional floor up to 5th floor	cum	Add +1.20% with Item No 5.04.03.01.1
5.04.03.01.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.50% with Item No 5.04.03.01.1

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1	2	3	4
5.04.03.01.4	Add for each additional floor for 10th floor and above	cum	Add +2.00% with Item No 5.04.03.01.1
5.04.03.02	Automatic machine made bricks		
5.04.03.02.1	Ground Floor	cum	8,770.21
5.04.03.02.2	Add for each additional floor up to 5th floor	cum	Add +1.20% with Item No 5.04.03.02.1
5.04.03.02.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.50% with Item No 5.04.03.02.1
5.04.03.02.4	Add for each additional floor for 10th floor and above	cum	Add +2.00% with Item No 5.04.03.02.1
5.04.04	Brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) in exterior walls with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines, in/c filling the interstices tightly with mortar, racking out joints, cleaning and soaking bricks at least for 24 hours before use, washing of sand, necessary scaffolding, curing for requisite period, etc. all complete as per direction of the E-I-C.		
5.04.04.01	Kiln bricks		
5.04.04.01.1	Ground Floor	cum	8,781.88
5.04.04.01.2	Add for each additional floor up to 5th floor	cum	Add +1.10% with Item No 5.04.04.01.1
5.04.04.01.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.40% with Item No 5.04.04.01.1
5.04.04.01.4	Add for each additional floor for 10th floor and above	cum	Add +1.80% with Item No 5.04.04.01.1
5.04.04.02	Automatic machine made bricks		
5.04.04.02.1	Ground Floor	cum	9,151.77
5.04.04.02.2	Add for each additional floor up to 5th floor	cum	Add +1.10% with Item No 5.04.04.02.1
5.04.04.02.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.40% with Item No 5.04.04.02.1
5.04.04.02.4	Add for each additional floor for 10th floor and above	cum	Add +1.80% with Item No 5.04.04.02.1
5.04.05	Exposed brick work (for exterior wall without outside plaster) with special quality sorted out Kiln 1st class bricks/automatic machine made first class bricks very carefully laid in cement mortar (1:4) in superstructure with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines in/c racking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period and high class flush pointing with cement mortar (1:1) , etc. all complete as per direction of the E-I-C.		
5.04.05.01	Special quality sorted out Kiln bricks		
5.04.05.01.1	Ground Floor	cum	8,857.69
5.04.05.01.2	Add for each additional floor up to 5th floor	cum	Add +1.00% with Item No 5.04.05.01.1
5.04.05.01.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.16% with Item No 5.04.05.01.1
5.04.05.01.4	Add for each additional floor for 10th floor and above	cum	Add +1.54% with Item No 5.04.05.01.1
5.04.05.02	Automatic machine made bricks		
5.04.05.02.1	Ground Floor	cum	9,227.58
5.04.05.02.2	Add for each additional floor up to 5th floor	cum	Add +1.00% with Item No 5.04.05.02.1
5.04.05.02.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.16% with Item No 5.04.05.02.1
5.04.05.02.4	Add for each additional floor for 10th floor and above	cum	Add +1.54% with Item No 5.04.05.02.1
5.04.06	Brick work with 10 holes machine made bricks of approved size having uniform colour, carefully laid in cement mortar (1:4) in superstructure with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines in/c raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, necessary scaffolding, curing for requisite period and pointing with cement mortar (1:2), etc. all complete as per direction of the E-I-C.		
5.04.06.01	Ground Floor	cum	13,926.37

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1	2	3	4
5.04.06.02	Add for each additional floor up to 5th floor	cum	Add +.80% with Item No 5.04.06.01
5.04.06.03	Add for each additional floor from 6th floor up to 9th floor	cum	Add +1.00% with Item No 5.04.06.01
5.04.06.04	Add for each additional floor for 10th floor and above	cum	Add +1.30% with Item No 5.04.06.01
5.04.07	Extra rate over the rate of Ground Floor (or any floor as the case may be) for each additional meter height of brick wall in Auditorium, Godown, Overhead water tank, etc. where free height of the structure exceeds beyond 4.00 meter up to 11 meter. The description of the item is same as in item nos. 5.04.03, 5.04.04, 5.04.05 and 5.04.06 above. (For each additional meter of extra height beyond 4.00 meter) (For extra height the total height of the wall from the floor should be measured and then 4.00 meter to be deducted. The maximum rate thus calculated on the top height of the wall shall be admissible for the whole volume of brick work above 4.00 meter. Extra payment shall be admissible only when both sides of the wall is uninterruptedly free beyond 4.00 meter)	cum	150.36
5.04.08	Brick work in facing in super structure with 200mmx100mmx50mm machine made ceramic hard pressed klinker facing bricks of approved quality in pressed with 20 mm thick cement mortar (1:4) and 10 mm thick cement mortar in adjacent sites with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), in/c raking out joints, cutting the bricks to required size wherever necessary in/c high class recessed pointing, cleaning and soaking the bricks at least for 24 hours before use, washing and screening of sand, necessary scaffolding, curing for requisite period (minimum 7 days), etc. all complete as per direction of the E-I-C .		
5.04.08.01	200mmx100mmx50mm machine made ceramic hard pressed bricks		
5.04.08.01.01	Ground floor	sqm	2,155.06
5.04.08.01.02	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.08.01.01
5.04.08.01.03	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.08.01.01
5.04.08.01.04	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.08.01.01
5.04.08.02	200mmx100mmx16.51mm machine made ceramic hard pressed bricks		
5.04.08.02.01	Ground Floor	sqm	2,528.51
5.04.08.02.02	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.08.02.01
5.04.08.02.03	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.08.02.01
5.04.08.02.04	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.08.02.01
5.04.09	125mm brick work with Kiln 1st class bricks/automatic machine made 1st class bricks in cement mortar (1:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.		
5.04.09.01	Kiln bricks		
5.04.09.01.1	Ground Floor	sqm	1,222.59
5.04.09.01.2	Add for each additional floor up to 5th floor	sqm	Add +1.30% with Item No 5.04.09.01.1
5.04.09.01.3	Add for each additional floor from 6th floor up to 9th floor	sqm	Add +1.60% with Item No 5.04.09.01.1
5.04.09.01.4	Add for each additional floor for 10th floor and above	sqm	Add +2.30% with Item No 5.04.09.01.1
5.04.09.02	Automatic machine made bricks		
5.04.09.02.1	Ground Floor	sqm	1,271.59
5.04.09.02.2	Add for each additional floor up to 5th floor	sqm	Add +1.30% with Item No 5.04.09.02.1
5.04.09.02.3	Add for each additional floor from 6th floor up to 9th floor	sqm	Add +1.60% with Item No 5.04.09.02.1
5.04.09.02.4	Add for each additional floor for 10th floor and above	sqm	Add +2.30% with Item No 5.04.09.02.1

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.04.10	125mm brick work with Kiln 1st class bricks/automatic machine made first class bricks in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and making bond with connected walls with uniform width and depth joints, true to vertical and horizontal lines in/c necessary scaffolding, raking out joints, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period, etc. all complete as per direction of the E-I-C.		
5.04.10.01	Kiln bricks		
5.04.10.01.1	Ground Floor	sqm	1,245.60
5.04.10.01.2	Add for each additional floor up to 5th floor	sqm	Add +1.30% with Item No 5.04.10.01.1
5.04.10.01.3	Add for each additional floor from 6th floor up to 9th floor	sqm	Add +1.60% with Item No 5.04.10.01.1
5.04.10.01.4	Add for each additional floor for 10th floor and above	sqm	Add +2.30% with Item No 5.04.10.01.1
5.04.10.02	Automatic machine made 1st class bricks		
5.04.10.02.1	Ground Floor	sqm	1,293.68
5.04.10.02.2	Add for each additional floor up to 5th floor	sqm	Add +1.30% with Item No 5.04.10.02.1
5.04.10.02.3	Add for each additional floor from 6th floor up to 9th floor	sqm	Add +1.60% with Item No 5.04.10.02.1
5.04.10.02.4	Add for each additional floor for 10th floor and above	sqm	Add +2.30% with Item No 5.04.10.02.1
5.04.11	125mm thick partition wall brick work with 10 holes machine made ceramic bricks of approved size having uniform colour, carefully laid in cement mortar (1:4) in superstructure with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines in/c raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, necessary scaffolding, curing for requisite period and pointing with cement mortar (1:2), etc. all complete as per direction of the E-I-C.		
5.04.11.01	Ground Floor	sqm	1,864.55
5.04.11.02	Add for each additional floor up to 5th floor	sqm	Add +1.00% with Item No 5.04.11.01
5.04.11.03	Add for each additional floor from 6th floor up to 9th floor	sqm	Add +1.20% with Item No 5.04.11.01
5.04.11.04	Add for each additional floor for 10th floor and above	sqm	Add +1.70% with Item No 5.04.11.01
5.04.12	125mm thick Jaffrey brick work with 1st class bricks and cement sand mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) in/c raking out joints, filling the interstices with mortar, cleaning and soaking the bricks at least for 24 hours before use, washing of sand, necessary scaffolding, curing for requisite period etc. all complete as per direction of the E-I-C.	sqm	672.18
5.04.13	75mm thick cornice of brick masonry in cement mortar (1:4) having minimum 12mm thick cement plaster (1:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), in/c scaffolding and curing for requisite period in all floors, etc. all complete as per direction of the E-I-C.	m	312.90
5.04.14	Fancy screen (Ornamental Screen) work with different size machine made design blocks with uniform colour and size, carefully laid in coloured cement sand mortar (1:3) in all floors in wall with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) 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 for requisite period (minimum 7 days), including supply of all necessary materials and other charges etc. all complete as per direction of the E-I-C.		
5.04.14.01	Fancy screen Block :110mmx110mmx110mm Size (MCW-CF2, Design No.3 or equivalent volume & design)		
5.04.14.01.1	Ground floor	sqm	4,063.53
5.04.14.01.2	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.14.01.1
5.04.14.01.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.14.01.1
5.04.14.01.4	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.14.01.1
5.04.14.02	Fancy screen Block : 140mmx140mmx 100mm Size (MCW-CF1, Design No.1 or equivalent volume & design)		

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1	2	3	4
5.04.14.02.1	Ground floor	sqm	3,290.00
5.04.14.02.2	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.14.02.1
5.04.14.02.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.14.02.1
5.04.14.02.4	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.14.02.1
5.04.14.03	Fancy screen Block : 150mmx150mmx 100mm Size (MCW- CF3/CF4/CF8, Design No.20/21/27 or equivalent volume & design)		
5.04.14.03.1	Ground floor	sqm	3,024.24
5.04.14.03.2	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.14.03.1
5.04.14.03.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.14.03.1
5.04.14.03.4	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.14.03.1
5.04.14.04	Fancy screen Block : 200mmx200mmx 105mm Size (MCW-CF6/CF7, Design No.24/25 or equivalent volume & design)		
5.04.14.04.1	Ground floor	sqm	2,404.12
5.04.14.04.2	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.14.04.1
5.04.14.04.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.14.04.1
5.04.14.04.4	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.14.04.1
5.04.14.05	Fancy screen Block : 200mmx115mmx 100mm Size (MCW-CF9, Design No.31 or equivalent volume & design)		
5.04.14.05.1	Ground floor	sqm	2,541.29
5.04.14.05.2	Add for each additional floor up to 5th Floor	sqm	Add +1.00% with Item No 5.04.14.05.1
5.04.14.05.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +1.16% with Item No 5.04.14.05.1
5.04.14.05.4	Add for each additional floor for 10th Floor and above	sqm	Add +1.54% with Item No 5.04.14.05.1
5.04.15	Exposed brick work (for exterior wall without outside plaster) with automatic machine made 1st class bricks, very carefully laid in cement mortar (1:4) in superstructure with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with uniform width and depth joints, true to vertical and horizontal lines in/c racking out joints, scaffolding, soaking the bricks at least for 24 hours before use, washing of sand, curing for requisite period and high class flush pointing with cement mortar (1:1) , etc. all complete as per direction of the E-I-C.		
5.04.15.01	Ground Floor	cum	9,227.58
5.04.15.02	Add for each additional floor up to 5th Floor	cum	Add +1.00% with Item No 5.04.15.01
5.04.15.03	Add for each additional floor from 6th up to 9th Floor	cum	Add +1.16% with Item No 5.04.15.01
5.04.15.04	Add for each additional floor for 10th Floor and above	cum	Add +1.54% with Item No 5.04.15.01
5.04.16	Dismantling of existing/damaged brick work in sub-structure or superstructure works of any type manually or any other means without any damage in structure and sorting the dismantled materials disposal of unserviceable materials and stacking the serviceable materials properly for measurement for all floors, 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.etc. all complete as per direction of the E-I-C.	cum	659.20

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Section-05: Reinforcement Cement Concrete Works

5.05.01	RCC:1:2:4, 17MPa, Brick Chips (BC): Reinforced cement concrete works with minimum cement content relates to mix ratio (tentative 1:2:4) and maximum water cement ratio 0.45 having minimum required average strength, $f_{cr} = 24$ Mpa and satisfied a specified compressive strength $f_c = 17$ 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 42.5N sand of minimum FM 1.8 and 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 and 15% respectively) conforming to ASTM C 33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c breaking chips and screening through proper sieves, centering, shuttering in position, making shuttering fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels and Standard size Bamboo Props suitably braced, placing of reinforcement in position, mixing the aggregates with standard mixer machine with hopper, fed by standard measuring boxes, maintaining allowable slump of 50mm (without plasticizer) & 75mm to 100mm (when plasticizer use), pouring, casting, compacting by mechanical vibrator machine and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. Additional quantity of cement and Plasticizer i.e. Water reducing chemical admixture of complying type A under ASTM C 494 to reduce mixing water required for normal workability and to maintain low water-cement (W/C) ratio (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per direction and approval of the Engineer in charge. Note : Using Concrete Mixer.		
5.05.01.01	In individual and continuous footing of column, raft and floor slab at plinth level.	cum	10,951.18
5.05.01.02	In foundation beam	cum	12,111.91
5.05.01.03	In pedestal, column, capital lift wall and wall :		
5.05.01.03.1	Below Plinth Level and in Ground Floor	cum	15,745.48
5.05.01.03.2	Add for each additional floor up to 5th Floor	cum	Add +.36% with Item No 5.05.01.03.1
5.05.01.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.66% with Item No 5.05.01.03.1
5.05.01.03.4	Add for each additional floor for 10th floor and above	cum	Add +.87% with Item No 5.05.01.03.1
5.05.01.04	In Tie Beam and Lintel :		
5.05.01.04.1	Below Plinth Level and in Ground Floor	cum	13,625.89
5.05.01.04.2	Add for each additional floor up to 5th Floor	cum	Add +.43% with Item No 5.05.01.04.1
5.05.01.04.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.78% with Item No 5.05.01.04.1
5.05.01.04.4	Add for each additional floor for 10th floor and above	cum	Add +1.03% with Item No 5.05.01.04.1
5.05.01.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.01.05.1	Below Plinth Level and in Ground Floor	cum	14,332.42
5.05.01.05.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.01.05.1
5.05.01.05.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.71% with Item No 5.05.01.05.1
5.05.01.05.4	Add for each additional floor for 10th floor and above	cum	Add +.95% with Item No 5.05.01.05.1
5.05.01.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.01.06.1	Below Plinth Level and in Ground Floor	cum	14,130.56
5.05.01.06.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.01.06.1
5.05.01.06.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.74% with Item No 5.05.01.06.1
5.05.01.06.4	Add for each additional floor for 10th floor and above	cum	Add +.99% with Item No 5.05.01.06.1
5.05.01.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		

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1	2	3	4
5.05.01.07.1	Below Plinth Level and in Ground Floor	cum	18,615.59
5.05.01.07.2	Add for each additional floor up to 5th Floor	cum	Add +.98% with Item No 5.05.01.07.1
5.05.01.07.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.80% with Item No 5.05.01.07.1
5.05.01.07.4	Add for each additional floor for 10th floor and above	cum	Add +2.46% with Item No 5.05.01.07.1
5.05.01.08	In Stair case slab and step		
5.05.01.08.1	Below Plinth Level and in Ground Floor	cum	14,433.36
5.05.01.08.2	Add for each additional floor up to 5th Floor	cum	Add +.42% with Item No 5.05.01.08.1
5.05.01.08.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.01.08.1
5.05.01.08.4	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.01.08.1
5.05.01.09	In Waffle or Ribbed floor/roof slab		
5.05.01.09.1	Below Plinth Level and in Ground Floor	cum	22,205.16
5.05.01.09.2	Add for each additional floor up to 5th Floor	cum	Add +.27% with Item No 5.05.01.09.1
5.05.01.09.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.48% with Item No 5.05.01.09.1
5.05.01.09.4	Add for each additional floor for 10th floor and above	cum	Add +.63% with Item No 5.05.01.09.1
5.05.02	RCC:1:2:4, 20MPa, Stone Chips (SC): Reinforced cement concrete works with minimum cement content relates to mix ratio (tentative 1:2:4) and maximum water cement ratio 0.40 having minimum required average strength, $f_{cr} = 26$ Mpa and satisfying a specified compressive strength $f_c = 20$ 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 42.5N, best quality sand of minimum FM 2.2, 20mm down well graded crushed stone chips (Preferably stone chips from Madhyapara, Dinajpur) (LAA value not exceeding 35) conforming to ASTM C 33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop and Water reducing chemical admixture of complying type A under ASTM C 494, in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position, with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels suitably braced and Standard size Bamboo Props making shuttering fully leak proof, placing of reinforcement cage in position, mixing the aggregates with standard mixer machine with hopper, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. additional quantity of Plasticizer i.e. Water reducing chemical admixture of complying type A under ASTM C 494 to reduce mixing water required for normal workability and to maintain low water-cement (W/C) ratio (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) Additional quantity of cement to be added if required to attain the strength at the contractor's own cost etc. all complete as per direction and approval of the Engineer in charge. Note : Using Concrete Mixer.		
5.05.02.01	In individual and continuous footing of column, raft and floor slab at plinth level.	cum	14,202.90
5.05.02.02	In foundation beam	cum	15,663.01
5.05.02.03	In pedestal, column, capital lift wall and wall :		
5.05.02.03.1	Below Plinth Level and in Ground Floor	cum	20,441.55
5.05.02.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.02.03.1
5.05.02.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.02.03.1
5.05.02.03.4	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.02.03.1
5.05.02.04	In Tie Beam and Lintel :		
5.05.02.04.1	Below Plinth Level and in Ground Floor	cum	17,255.85
5.05.02.04.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.02.04.1

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1	2	3	4
5.05.02.04.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.02.04.1
5.05.02.04.4	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.02.04.1
5.05.02.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.02.05.1	Below Plinth Level and in Ground Floor	cum	17,799.88
5.05.02.05.2	Add for each additional floor up to 5th Floor	cum	Add +.39% with Item No 5.05.02.05.1
5.05.02.05.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.02.05.1
5.05.02.05.4	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.02.05.1
5.05.02.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.02.06.1	Below Plinth Level and in Ground Floor	cum	17,654.07
5.05.02.06.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.02.06.1
5.05.02.06.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.02.06.1
5.05.02.06.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.02.06.1
5.05.02.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.02.07.1	Below Plinth Level and in Ground Floor	cum	24,102.19
5.05.02.07.2	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.02.07.1
5.05.02.07.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.02.07.1
5.05.02.07.4	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.02.07.1
5.05.02.08	In Stair case slab and step		
5.05.02.08.1	Below Plinth Level and in Ground Floor	cum	18,317.75
5.05.02.08.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.02.08.1
5.05.02.08.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.02.08.1
5.05.02.08.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.02.08.1
5.05.02.09	In Waffle or Ribbed floor/roof slab		
5.05.02.09.1	Below Plinth Level and in Ground Floor	cum	27,874.84
5.05.02.09.2	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.02.09.1
5.05.02.09.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.02.09.1
5.05.02.09.4	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.02.09.1

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1	2	3	4
5.05.03	RCC:1:1.5:3, 20MPa, Brick Chips (BC): Reinforced cement concrete works with minimum cement content relates to mix ratio (tentative 1:1.5:3) and maximum water cement ratio 0.40 having minimum required average strength, $f_{cr} = 26$ Mpa and satisfying a specified compressive strength $f_c = 20$ 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 42.5N, sand of minimum FM 2.20, 20mm down well graded picked brick chips (LAA value and maximum water absorption not exceeding 38 and 15% respectively) conforming to ASTM C 33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop and Water reducing chemical admixture of complying type A under ASTM C 494, in/c breaking chips and screening through proper sieves, centering, shuttering in position, making shuttering fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels and Standard size Bamboo Props suitably braced, placing of reinforcement in position, mixing the aggregates with standard mixer machine with hopper, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm, pouring, casting, compacting by mechanical vibrator machine's and tamped rod and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. additional quantity of Plasticizer i.e. Water reducing chemical admixture of complying type A under ASTM C 494 to reduce mixing water required for normal workability and to maintain low water-cement (W/C) ratio (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) and additional quantity of Portland Composite Cement to be added if required to attain the strength at the contractor's own cost. Etc. all complete as per direction and approval of the Engineer in charge. Note : Using Concrete Mixer.		
5.05.03.01	In individual and continuous footing of column, raft and floor slab at plinth level.	cum	12,416.21
5.05.03.02	In foundation beam	cum	13,680.82
5.05.03.03	In pedestal, column, capital lift wall and wall :		
5.05.03.03.1	Below Plinth Level and in Ground Floor	cum	17,819.55
5.05.03.03.2	Add for each additional floor upto 5th floor	cum	Add +.36% with Item No 5.05.03.03.1
5.05.03.03.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.65% with Item No 5.05.03.03.1
5.05.03.03.4	Add for each additional floor for 10th floor and above.	cum	Add +.86% with Item No 5.05.03.03.1
5.05.03.04	In Tie Beam and Lintel :		
5.05.03.04.1	Below Plinth Level and in Ground Floor	cum	15,290.33
5.05.03.04.2	Add for each additional floor upto 5th floor	cum	Add +.42% with Item No 5.05.03.04.1
5.05.03.04.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.76% with Item No 5.05.03.04.1
5.05.03.04.4	Add for each additional floor for 10th floor and above.	cum	Add +1.01% with Item No 5.05.03.04.1
5.05.03.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.03.05.1	Below Plinth Level and in Ground Floor	cum	16,210.05
5.05.03.05.2	Add for each additional floor upto 5th floor	cum	Add +.38% with Item No 5.05.03.05.1
5.05.03.05.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.70% with Item No 5.05.03.05.1
5.05.03.05.4	Add for each additional floor for 10th floor and above.	cum	Add +.93% with Item No 5.05.03.05.1
5.05.03.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.03.06.1	Below Plinth Level and in Ground Floor	cum	15,865.15
5.05.03.06.2	Add for each additional floor upto 5th floor	cum	Add +.41% with Item No 5.05.03.06.1
5.05.03.06.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.73% with Item No 5.05.03.06.1
5.05.03.06.4	Add for each additional floor for 10th floor and above.	cum	Add +.97% with Item No 5.05.03.06.1
5.05.03.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.03.07.1	Below Plinth Level and in Ground Floor	cum	20,982.25
5.05.03.07.2	Add for each additional floor upto 5th floor	cum	Add +.97% with Item No 5.05.03.07.1
5.05.03.07.3	Add for each additional floor from 6th floor upto 9th	cum	Add +1.78% with Item No 5.05.03.07.1
5.05.03.07.4	Add for each additional floor for 10th floor and above.	cum	Add +2.42% with Item No 5.05.03.07.1
5.05.03.08	In Stair case slab and step		
5.05.03.08.1	Below Plinth Level and in Ground Floor	cum	16,095.08
5.05.03.08.2	Add for each additional floor upto 5th floor	cum	Add +.42% with Item No 5.05.03.08.1
5.05.03.08.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.75% with Item No 5.05.03.08.1
5.05.03.08.4	Add for each additional floor for 10th floor and above.	cum	Add +.98% with Item No 5.05.03.08.1
5.05.03.09	In Waffle or Ribbed floor/roof slab		
5.05.03.09.1	Below Plinth Level and in Ground Floor	cum	24,717.45
5.05.03.09.2	Add for each additional floor upto 5th floor	cum	Add +.27% with Item No 5.05.03.09.1
5.05.03.09.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.47% with Item No 5.05.03.09.1
5.05.03.09.4	Add for each additional floor for 10th floor and above.	cum	Add +.63% with Item No 5.05.03.09.1
5.05.04	RCC: Mix Design 20MPa, Stone Chips (SC):, Batching Plant (BP): Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by specified Laboratory through mix design having minimum required average compressive strength, $f_{cr} = 26$ Mpa and satisfying a specified compressive strength, $f_c = 20$ 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 42.5N, high range water reducing chemical admixture of complying type F under ASTM C494 which is required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength and intend to retard setting time of concrete. (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) for smart dynamic concrete (i.e. Low fines self compacting concrete), sand of minimum FM 2.20 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 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop, in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position, making shuttering fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mm thick wooden plank panels and Standard size Bamboo Props suitably braced, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days, removing centering-shuttering after approved specified time period i/c cost of additional testing charges of materials and cylinders required etc all complete as per direction of the Engineer in charge. (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per direction and approval of the Engineer The Mix Design report shall have to be approved by the District Quality Control Laboratory, LGED or approved laboratory instruction by the Engineer before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.04.01	In individual and continuous footing of column, raft and floor slab at plinth level.	cum	14,249.18
5.05.04.02	In foundation beam	cum	15,568.54
5.05.04.03	In pedestal, column, capital lift wall and wall :		
5.05.04.03.1	Below Plinth Level and in Ground Floor	cum	20,318.27
5.05.04.03.2	Add for each additional floor upto 5th floor	cum	Add +.35% with Item No 5.05.04.03.1
5.05.04.03.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.63% with Item No 5.05.04.03.1
5.05.04.03.4	Add for each additional floor for 10th floor and above.	cum	Add +.85% with Item No 5.05.04.03.1
5.05.04.04	In Tie Beam and Lintel :		

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.04.04.1	Below Plinth Level and in Ground Floor	cum	17,151.79
5.05.04.04.2	Add for each additional floor upto 5th floor	cum	Add +.41% with Item No 5.05.04.04.1
5.05.04.04.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.75% with Item No 5.05.04.04.1
5.05.04.04.4	Add for each additional floor for 10th floor and above.	cum	Add +1.00% with Item No 5.05.04.04.1
5.05.04.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.04.05.1	Below Plinth Level and in Ground Floor	cum	18,207.28
5.05.04.05.2	Add for each additional floor upto 5th floor	cum	Add +.38% with Item No 5.05.04.05.1
5.05.04.05.4	Add for each additional floor from 6th floor upto 9th	cum	Add +.69% with Item No 5.05.04.05.1
5.05.04.05.5	Add for each additional floor for 10th floor and above.	cum	Add +.92% with Item No 5.05.04.05.1
5.05.04.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.04.06.1	Below Plinth Level and in Ground Floor	cum	17,547.60
5.05.04.06.2	Add for each additional floor upto 5th floor	cum	Add +.40% with Item No 5.05.04.06.1
5.05.04.06.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.72% with Item No 5.05.04.06.1
5.05.04.06.4	Add for each additional floor for 10th floor and above.	cum	Add +.96% with Item No 5.05.04.06.1
5.05.04.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.04.07.1	Below Plinth Level and in Ground Floor	cum	24,351.38
5.05.04.07.2	Add for each additional floor upto 5th floor	cum	Add +.95% with Item No 5.05.04.07.1
5.05.04.07.3	Add for each additional floor from 6th floor upto 9th	cum	Add +1.75% with Item No 5.05.04.07.1
5.05.04.07.4	Add for each additional floor for 10th floor and above.	cum	Add +2.40% with Item No 5.05.04.07.1
5.05.04.08	In Stair case slab and step		
5.05.04.08.1	Below Plinth Level and in Ground Floor	cum	18,471.15
5.05.04.08.2	Add for each additional floor upto 5th floor	cum	Add +.40% with Item No 5.05.04.08.1
5.05.04.08.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.72% with Item No 5.05.04.08.1
5.05.04.08.4	Add for each additional floor for 10th floor and above.	cum	Add +.96% with Item No 5.05.04.08.1
5.05.04.09	In Waffle or Ribbed floor/roof slab		
5.05.04.09.1	Below Plinth Level and in Ground Floor	cum	27,970.60
5.05.04.09.2	Add for each additional floor upto 5th floor	cum	Add +.26% with Item No 5.05.04.09.1
5.05.04.09.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.46% with Item No 5.05.04.09.1
5.05.04.09.4	Add for each additional floor for 10th floor and above.	cum	Add +.62% with Item No 5.05.04.09.1

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.05	RCC:1:1.5:3, 25MPa, Stone Chips (SC): Reinforced cement concrete works with minimum cement content relates to mix ratio (tentative 1:1.5:3) and maximum water cement ratio 0.4 having minimum required average strength, $f_{cr} = 33.5$ Mpa and satisfying a specified compressive strength $f_c = 25$ 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 42.5N, best quality sand of minimum FM 2.50, 20mm down well graded crushed stone chips broken from boulder (Preferably stone chips from Madhyapara, Dinajpur) (LAA value not exceeding 30) conforming to ASTM C33 or Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop, Water reducing chemical admixture of complying type A under ASTM C 494, in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position, with fully leak proof & shuttering with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required, i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in standard mixer machine with hopper or mixing in mechanized batching and mixing plant and pumping using line pump or boom placer as per approved mix design unless otherwise approved by the Engineer, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm, casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. Water reducing chemical admixture of complying type A under ASTM C 494 to reduce mixing water required for normal workability and to maintain low water-cement (W/C) ratio (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per direction and approval of the Engineer in charge. Note : Using Concrete Mixer.		
5.05.05.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	14,985.58
5.05.05.02	In foundation beam	cum	16,116.57
5.05.05.03	In pedestal, column, capital lift wall and wall :		
5.05.05.03.1	Below Plinth Level and in Ground Floor	cum	21,206.01
5.05.05.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.05.03.1
5.05.05.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.05.03.1
5.05.05.03.4	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.05.03.1
5.05.05.04	In Tie Beam and Lintel :		
5.05.05.04.1	Below Plinth Level and in Ground Floor	cum	18,661.29
5.05.05.04.2	Add for each additional floor upto 5th floor	cum	Add +.41% with Item No 5.05.05.04.1
5.05.05.04.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.75% with Item No 5.05.05.04.1
5.05.05.04.4	Add for each additional floor for 10th floor and above.	cum	Add +1.00% with Item No 5.05.05.04.1
5.05.05.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.05.05.1	Ground Floor	cum	19,085.41
5.05.05.05.2	Add for each additional floor upto 5th floor	cum	Add +.38% with Item No 5.05.05.05.1
5.05.05.05.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.69% with Item No 5.05.05.05.1
5.05.05.05.4	Add for each additional floor for 10th floor and above.	cum	Add +.92% with Item No 5.05.05.05.1
5.05.05.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.05.06.1	Ground Floor	cum	18,378.54
5.05.05.06.2	Add for each additional floor upto 5th floor	cum	Add +.40% with Item No 5.05.05.06.1
5.05.05.06.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.72% with Item No 5.05.05.06.1
5.05.05.06.4	Add for each additional floor for 10th floor and above.	cum	Add +.96% with Item No 5.05.05.06.1

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.05.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.05.07.1	Ground Floor	cum	25,673.95
5.05.05.07.2	Add for each additional floor upto 5th floor	cum	Add +.95% with Item No 5.05.05.07.1
5.05.05.07.3	Add for each additional floor from 6th floor upto 9th	cum	Add +1.75% with Item No 5.05.05.07.1
5.05.05.07.4	Add for each additional floor for 10th floor and above.	cum	Add +2.38% with Item No 5.05.05.07.1
5.05.05.08	In Stair case slab and step		
5.05.05.08.1	Ground Floor	cum	19,007.83
5.05.05.08.2	Add for each additional floor upto 5th floor	cum	Add +.40% with Item No 5.05.05.08.1
5.05.05.08.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.72% with Item No 5.05.05.08.1
5.05.05.08.4	Add for each additional floor for 10th floor and above.	cum	Add +.96% with Item No 5.05.05.08.1
5.05.05.09	In Waffle or Ribbed floor/roof slab		
5.05.05.09.1	Ground Floor	cum	28,365.52
5.05.05.09.2	Add for each additional floor upto 5th floor	cum	Add +.26% with Item No 5.05.05.09.1
5.05.05.09.3	Add for each additional floor from 6th floor upto 9th	cum	Add +.46% with Item No 5.05.05.09.1
5.05.05.09.4	Add for each additional floor for 10th floor and above.	cum	Add +.62% with Item No 5.05.05.09.1
5.05.06	RCC: Mix Design 25MPa, Stone Chips (SC), Batching Plant (BP): Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by Laboratory through mix design having minimum required average compressive strength, $f_{cr} = 33.5$ Mpa and satisfying a specified compressive strength, $f_c = 25$ 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 42.5N, high range water reducing chemical admixture of complying type F/G under ASTM C494 which is required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength and intend to retard setting time of concrete. (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) 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 C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days removing centering-shuttering after approved specified time period i/c cost of additional testing charges of materials and cylinders required (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per direction and approval of the Engineer in charge. The Mix Design report shall have to be approved by the District Quality Control Laboratory, LGED or approved laboratory instruction by the Engineer before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.06.01	In individual and continuous footing of column, raft and floor slab at plinth level.	cum	15,287.14
5.05.06.02	In foundation beam	cum	16,440.89
5.05.06.03	In pedestal, column, column capitals, lift wall and walls		
5.05.06.03.1	Below Plinth Level and in Ground Floor	cum	21,344.31
5.05.06.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.06.03.1
5.05.06.03.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.63% with Item No 5.05.06.03.1
5.05.06.03.4	Add for each additional floor for 10th floor & above	cum	Add +.85% with Item No 5.05.06.03.1

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.06.04	In Tie Beam and lintel :		
5.05.06.04.1	Below Plinth Level and in Ground Floor	cum	18,892.60
5.05.06.04.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.06.04.1
5.05.06.04.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.75% with Item No 5.05.06.04.1
5.05.06.04.4	Add for each additional floor for 10th floor & above	cum	Add +1.00% with Item No 5.05.06.04.1
5.05.06.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.06.05.1	Ground Floor	cum	19,325.25
5.05.06.05.2	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.06.05.1
5.05.06.05.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.69% with Item No 5.05.06.05.1
5.05.06.05.4	Add for each additional floor for 10th floor & above	cum	Add +.92% with Item No 5.05.06.05.1
5.05.06.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.06.06.1	Ground Floor	cum	18,459.94
5.05.06.06.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.06.06.1
5.05.06.06.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.72% with Item No 5.05.06.06.1
5.05.06.06.4	Add for each additional floor for 10th floor & above	cum	Add +.96% with Item No 5.05.06.06.1
5.05.06.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick).		
5.05.06.07.1	Ground Floor	cum	26,191.72
5.05.06.07.2	Add for each additional floor upto 5th floor	cum	Add +.95% with Item No 5.05.06.07.1
5.05.06.07.3	Add for each additional floor from 6th floor upto 9th	cum	Add +1.75% with Item No 5.05.06.07.1
5.05.06.07.4	Add for each additional floor for 10th floor and above.	cum	Add +2.38% with Item No 5.05.06.07.1
5.05.06.08	In Stair case slab and step		
5.05.06.08.1	Ground Floor	cum	19,181.03
5.05.06.08.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.06.08.1
5.05.06.08.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.72% with Item No 5.05.06.08.1
5.05.06.08.4	Add for each additional floor for 10th floor & above	cum	Add +.96% with Item No 5.05.06.08.1
5.05.06.09	In Waffle or Ribbed floor/roof slab		
5.05.06.09.1	Ground Floor	cum	28,555.22
5.05.06.09.2	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.06.09.1
5.05.06.09.3	Add for each additional floor from 6th floor up to 9th floor	cum	Add +.46% with Item No 5.05.06.09.1
5.05.06.09.4	Add for each additional floor for 10th floor & above	cum	Add +.62% with Item No 5.05.06.09.1

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.07	RCC:1:1.25:2.5, 30MPa, Stone Chips (SC): Reinforced cement concrete works using steel shutter with minimum cement content relates to mix ratio tentative 1:1.25:2.5 and maximum water cement ratio 0.4 having minimum cylinder crushing strength $f_{cr} = 40$ Mpa and satisfied a specified compressive strength $f_c = 30$ Mpa at 28 days on standard cylinders as per standard practice of Code AASHTO/ ASTM and Ordinary Portland cement conforming to BDS EN 197-1 : 2003 CEM-I 52.5N/ASTM C150 Type-1 and adding approved high range water reducing chemical admixture of complying specific type (generally be Type-F) under ASTM-C 494 which is required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength and intend to retard setting time of concrete. (Doses of admixture to be fixed by the mix design and used only instruction of Central Quality Control Laboratory of LGED or approved laboratory instruction by the Engineer), best quality sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulder (LAA value not exceeding 30) conforming to ASTM C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates in/c cost of breaking chips, screening, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required i/c cost of nuts, bolts, J-hooks etc, making shuttering fully leak proof placing of reinforcement in position, mixing in a standard mixer machine with hopper or batching and mixing plant and pumping using line pump or boom placer as per approved mix design unless other wise approved by the Engineer, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm pouring, casting, compacting by Mechanical vibrator machine and curing at least for 28 days removing centering-shuttering after approved specified time period i/c cost of additional testing charges of materials and cylinders required. Excluding the cost of reinforcement and its fabrication, welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost etc. all complete as per direction and approval of the Engineer in charge. The Mix Design report shall be got approved by the District Quality Control Laboratory, LGED or approved laboratory instruction by the Engineer before execution of the work. Note : Using Concrete Mixer.		
5.05.07.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	16,565.94
5.05.07.02	In foundation beam	cum	18,351.48
5.05.07.03	In pedestal, column, capital lift wall and wall :		
5.05.07.03.1	Below Plinth Level and in Ground Floor	cum	23,034.55
5.05.07.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.07.03.1
5.05.07.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.07.03.1
5.05.07.03.4	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.07.03.1
5.05.07.04	In Tie Beam and Lintel :		
5.05.07.04.1	Below Plinth Level and in Ground Floor	cum	20,510.22
5.05.07.04.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.07.04.1
5.05.07.04.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.07.04.1
5.05.07.04.4	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.07.04.1
5.05.07.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.07.05.1	Below Plinth Level and in Ground Floor	cum	21,141.30
5.05.07.05.2	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.07.05.1
5.05.07.05.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.07.05.1
5.05.07.05.4	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.07.05.1
5.05.07.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.07.06.1	Below Plinth Level and in Ground Floor	cum	20,225.94
5.05.07.06.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.07.06.1
5.05.07.06.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.07.06.1

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.07.06.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.07.06.1
5.05.07.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.07.07.1	Below Plinth Level and in Ground Floor	cum	28,500.83
5.05.07.07.2	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.07.07.1
5.05.07.07.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.07.07.1
5.05.07.07.4	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.07.07.1
5.05.07.08	In Stair case slab and step		
5.05.07.08.1	Below Plinth Level and in Ground Floor	cum	20,667.99
5.05.07.08.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.07.08.1
5.05.07.08.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.07.08.1
5.05.07.08.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.07.08.1
5.05.07.09	In Waffle or Ribbed floor/roof slab		
5.05.07.09.1	Below Plinth Level and in Ground Floor	cum	30,923.10
5.05.07.09.2	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.07.09.1
5.05.07.09.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.07.09.1
5.05.07.09.4	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.07.09.1
5.05.08	RCC-30MPa, Stone Chips (SC), Batching Plant (BP): Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by Quality Control Laboratory, LGED or approved laboratory instruction by the Engineer before execution of the work. 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-I 52.5N / ASTM C150 Type-1, high range water reducing admixture of complying type F/G under ASTM C494 (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) 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 C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days removing centering-shuttering after approved specified time period i/c cost of additional testing charges of materials and cylinders required (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per approval of the Engineer in charge. The Mix Design report shall have to approved by the Central Quality Control Laboratory (CQCL), LGED or approved laboratory instruction by the Engineer before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.08.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	17,349.66
5.05.08.02	In foundation beam	cum	18,552.40
5.05.08.03	In pedestal, column, capital lift wall and wall :		
5.05.08.03.01	Below Plinth Level and in Ground Floor	cum	23,922.84
5.05.08.03.02	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.08.03.01
5.05.08.03.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.08.03.01

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.08.03.04	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.08.03.01
5.05.08.04	In Tie Beam and Lintel :		
5.05.08.04.01	Below Plinth Level and in Ground Floor	cum	21,318.99
5.05.08.04.02	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.08.04.01
5.05.08.04.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.08.04.01
5.05.08.04.04	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.08.04.01
5.05.08.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.08.05.01	Below Plinth Level and in Ground Floor	cum	21,807.21
5.05.08.05.02	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.08.05.01
5.05.08.05.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.08.05.01
5.05.08.05.04	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.08.05.01
5.05.08.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.08.06.01	Below Plinth Level and in Ground Floor	cum	20,830.77
5.05.08.06.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.08.06.01
5.05.08.06.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.08.06.01
5.05.08.06.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.08.06.01
5.05.08.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.08.07.01	Below Plinth Level and in Ground Floor	cum	29,618.75
5.05.08.07.02	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.08.07.01
5.05.08.07.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.08.07.01
5.05.08.07.04	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.08.07.01
5.05.08.08	In Stair case slab and step		
5.05.08.08.01	Below Plinth Level and in Ground Floor	cum	21,644.47
5.05.08.08.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.08.08.01
5.05.08.08.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.08.08.01
5.05.08.08.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.08.08.01
5.05.08.09	In Waffle or Ribbed floor/roof slab		
5.05.08.09.01	Below Plinth Level and in Ground Floor	cum	32,222.60
5.05.08.09.02	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.08.09.01
5.05.08.09.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.08.09.01
5.05.08.09.04	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.08.09.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.09	RCC-35 Mpa, Stone Chips (SC), Batching Plant (BP): Reinforced cement concrete work with minimum cement content and maximum water cement ratio as specified by CQCL, LGED based on Mixed 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-1, high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design from approved laboratory instruction by the Engineer) 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 C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop, in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required, i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of additional testing charges of materials and cylinders required (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost), etc. all complete as per approval of the Engineer in charge. The Mix Design report shall have to be approved by the Central Quality Control Laboratory (CQCL), LGED or approved laboratory instruction by the Engineer before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.09.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	19,086.21
5.05.09.02	In foundation beam	cum	20,526.68
5.05.09.03	In pedestal, column, capital lift wall and wall :		
5.05.09.03.01	Below Plinth Level and in Ground Floor	cum	26,468.61
5.05.09.03.02	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.09.03.01
5.05.09.03.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.09.03.01
5.05.09.03.04	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.09.03.01
5.05.09.04	In Tie Beam and Lintel :		
5.05.09.04.01	Below Plinth Level and in Ground Floor	cum	23,587.67
5.05.09.04.02	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.09.04.01
5.05.09.04.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.09.04.01
5.05.09.04.04	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.09.04.01
5.05.09.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.09.05.01	Below Plinth Level and in Ground Floor	cum	24,127.85
5.05.09.05.02	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.09.05.01
5.05.09.05.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.09.05.01
5.05.09.05.04	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.09.05.01
5.05.09.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.09.06.01	Below Plinth Level and in Ground Floor	cum	23,047.50
5.05.09.06.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.09.06.01
5.05.09.06.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.09.06.01
5.05.09.06.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.09.06.01

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.09.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.09.07.01	Below Plinth Level and in Ground Floor	cum	32,940.94
5.05.09.07.02	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.09.07.01
5.05.09.07.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.09.07.01
5.05.09.07.04	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.09.07.01
5.05.09.08	In Stair case slab and step		
5.05.09.08.01	Below Plinth Level and in Ground Floor	cum	23,947.79
5.05.09.08.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.09.08.01
5.05.09.08.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.09.08.01
5.05.09.08.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.09.08.01
5.05.09.09	In Waffle or Ribbed floor/roof slab		
5.05.09.09.01	Below Plinth Level and in Ground Floor	cum	35,651.59
5.05.09.09.02	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.09.09.01
5.05.09.09.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.09.09.01
5.05.09.09.04	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.09.09.01
5.05.10	Extra rate over the rate of corresponding items of Ground floor (or any other floor as the case may be) for each additional each meter height of Auditorium, Godown, Overhead water tank etc. where free height of the structure exceeds 4m or a remain up to 11m casting of column, capital lift wall, wall, Tee beam, Ell beam, rectangular beam, roof slab, cantilever slab and drop panel that executed after said height. The description of the item will be same as corresponding item Nos. 05.01.03/5.05.01.04/5.05.01.05/5.05.01.06 /5.05.01.07 / 5.05.05.03/5.05.05.04/5.05.05.05/5.05.05.06/5.05.05.03/ 5.05.05.04/ 5.05.05.05 /5.05.05.06/5.05.06.03/5.05.06.04/ 5.05.06.05/ 5.05.06.06 For each additional meter of height beyond 4 m up to 11m height		
5.05.10.01	In column, capitals, lift wall & walls where the free height of the structure exceeds 4 m (rate is considered for each additional meter height)	cum	1,591.43
5.05.10.02	In Tee beams, Ell beams and Rectangular beams where the free height of the structure exceeds 4 m (rate is considered for each additional meter height)	cum	4,054.59
5.05.10.03	In floor/roof slab, cantilever slab, waffle slab and drop panels where the free height of the structure exceeds 4m (rate is considered for each additional meter height)	cum	4,855.37
5.05.11	Dismantling of existing/damaged RCC work in sub-structure or superstructure works of any type manually or any other means without any damage in structure and sorting the dismantled materials disposal of unserviceable materials and stacking the serviceable materials properly for measurement for all floors, 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.etc. all complete as per direction of the E-I-C.	cum	1,600.29

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.16	Marine Concrete_RCC_30SCCM: Reinforced cement concrete works for Marine region with stone aggregates and minimum cement content and maximum water cement ratio 0.40, having minimum cylinder crushing strength $f_{cr} = 40$ Mpa and satisfied 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-II/B-V and adding approved high range water reducing chemical admixture of complying specific type (generally be Type-F) under ASTM-C 494 which is required to produce concrete of consistency by 12% or greater (flowing concrete) and for higher strength and intend to retard setting time of concrete. (Doses of admixture to be fixed by the mix design and used only instruction of Central Quality Control Laboratory of LGED or approved laboratory instruction by the Engineer), best quality sand of minimum FM 2.5 and 20mm down well graded crushed stone chips broken from boulder (LAA value not exceeding 25) conforming to ASTM C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates in/c cost of breaking chips, screening, centering, steel shuttering in position with plain 16 BWG steel sheet fitted over 38mmx 38mmx 5mm MS angle and 25mmx 5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required i/c cost of nuts, bolts, J-hooks etc, making shuttering fully leak proof placing of reinforcement in position, mixing in a standard mixer machine with hopper or batching and mixing plant and pumping using line pump or boom placer as per approved mix design unless other wise approved by the Engineer, fed by standard measuring boxes, maintaining allowable slump of 75mm to 100mm pouring, casting, compacting by Mechanical vibrator machine and curing at least for 28 days removing centering-shuttering after approved specified time period. Note: minimum Cement content considered in M-30 is @ 450kg/cum relates to nominal mix ratio 1:1.25:2.4 and maximum WCR=0.4, Additional quantity of cement to be added if required to attain the required strength at the contractors own cost. 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 reservoir 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. Note: Using Concrete Mixer.		
5.05.16.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	17,149.72
5.05.16.02	In foundation beam	cum	18,444.04
5.05.16.03	In pedestal, column, capital lift wall and wall :		
5.05.16.03.1	Below Plinth Level and in Ground Floor	cum	23,783.11
5.05.16.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.16.03.1
5.05.16.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.16.03.1
5.05.16.03.4	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.16.03.1
5.05.16.04	In Tie Beam and Lintel :		
5.05.16.04.1	Below Plinth Level and in Ground Floor	cum	21,194.47
5.05.16.04.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.16.04.1
5.05.16.04.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.16.04.1
5.05.16.04.4	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.16.04.1
5.05.16.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.16.05.1	Below Plinth Level and in Ground Floor	cum	21,841.63
5.05.16.05.2	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.16.05.1
5.05.16.05.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.16.05.1
5.05.16.05.4	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.16.05.1
5.05.16.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.16.06.1	Below Plinth Level and in Ground Floor	cum	20,870.89
5.05.16.06.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.16.06.1

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.16.06.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.16.06.1
5.05.16.06.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.16.06.1
5.05.16.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.16.07.1	Below Plinth Level and in Ground Floor	cum	29,445.75
5.05.16.07.2	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.16.07.1
5.05.16.07.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.16.07.1
5.05.16.07.4	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.16.07.1
5.05.16.08	In Stair case slab and step		
5.05.16.08.1	Below Plinth Level and in Ground Floor	cum	21,356.26
5.05.16.08.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.16.08.1
5.05.16.08.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.16.08.1
5.05.16.08.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.16.08.1
5.05.16.09	In Waffle or Ribbed floor/roof slab		
5.05.16.09.1	Below Plinth Level and in Ground Floor	cum	31,872.60
5.05.16.09.2	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.16.09.1
5.05.16.09.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.16.09.1
5.05.16.09.4	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.16.09.1
5.05.17	Marine Concrete_RCC_30SCBP: Reinforced cement concrete works for Marine region with minimum cement content and maximum water cement ratio as specified by Quality Control Laboratory, LGED or approved laboratory through Mixed Design instruction by the Engineer before execution of the work. 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 approved high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design and used only instruction of Central Quality Control Laboratory of LGED or approved laboratory instruction by the Engineer), 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 C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop in/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days removing centering-shuttering after approved specified time period i/c cost of Drinkable water for Concreteing with storage reservior and cost of additional testing charges of materials and cylinders required (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost) etc. all complete as per approval of the Engineer in charge. The Mix Design shall have to approved by the Central Quality Control Laboratory (CQCL), LGED or approved laboratory instruction by the Engineer before execution of the work. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.17.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	17,843.25
5.05.17.02	In foundation beam	cum	19,177.32
5.05.17.03	In pedestal, column, capital lift wall and wall :		
5.05.17.03.1	Below Plinth Level and in Ground Floor	cum	24,680.38
5.05.17.03.2	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.17.03.1

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.17.03.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.17.03.1
5.05.17.03.4	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.17.03.1
5.05.17.04	In Tie Beam and Lintel :		
5.05.17.04.1	Below Plinth Level and in Ground Floor	cum	22,012.23
5.05.17.04.2	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.17.04.1
5.05.17.04.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.17.04.1
5.05.17.04.4	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.17.04.1
5.05.17.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.17.05.1	Below Plinth Level and in Ground Floor	cum	22,679.27
5.05.17.05.2	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.17.05.1
5.05.17.05.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.17.05.1
5.05.17.05.4	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.17.05.1
5.05.17.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.17.06.1	Below Plinth Level and in Ground Floor	cum	21,345.19
5.05.17.06.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.17.06.1
5.05.17.06.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.17.06.1
5.05.17.06.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.17.06.1
5.05.17.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		
5.05.17.07.1	Below Plinth Level and in Ground Floor	cum	30,516.96
5.05.17.07.2	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.17.07.1
5.05.17.07.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.17.07.1
5.05.17.07.4	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.17.07.1
5.05.17.08	In Stair case slab and step		
5.05.17.08.1	Below Plinth Level and in Ground Floor	cum	22,178.99
5.05.17.08.2	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.17.08.1
5.05.17.08.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.17.08.1
5.05.17.08.4	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.17.08.1
5.05.17.09	In Waffle or Ribbed floor/roof slab		
5.05.17.09.1	Below Plinth Level and in Ground Floor	cum	33,018.35
5.05.17.09.2	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.17.09.1
5.05.17.09.3	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.17.09.1
5.05.17.09.4	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.17.09.1

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.18	Marine Concrete_RCC_35SCBP: Reinforced cement concrete works for Marine region with minimum cement content and maximum water cement ratio as specified by CQCL, LGED through Mixed 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 cementy conforming to BDS EN 197-1 : 2003 CEM-II/B-V, high range water reducing admixture of complying type F/ G under ASTM C494 (Doses of admixture to be fixed by the mix design and used only instruction of Central Quality Control Laboratory of LGED or approved laboratory instruction by the Engineer), 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 C33 and Aggregate Grading Appendix-3 LGED Schedule of Rates or any other International recognized envelop, i/c cost of breaking chips, screening through proper sieves, cleaning and washing thoroughly, centering, shuttering in position with plain 16 BWG steel sheet fitted over 38mmx38mmx5mm MS angle and 25mmx5mm FI bar frame and 38mm/50mm steel or GI pipe props suitably braced and 12 BWG steel sheet plate box of proper size where required, i/c cost of nuts, bolts, J-hooks etc, placing of reinforcement in position, mixing in mechanized a batching and mixing plant and pumping using line pump or boom placer, maintaining allowable slump of 100mm to 150mm casting in steel forms, compacting by Mechanical vibrators and tapered rods and curing at least for 28 days, removing centering-shuttering after approved specified time period, i/c cost of Drinkable water for Concreteing with storage reservior and cost of additional testing charges of materials and cylinders required (Excluding the cost of reinforcements and its fabrication welding, coupling, placing, binding etc. Additional quantity of cement to be added if required to attain the strength at the contractor's own cost), etc. all complete as per approval of the Engineer in charge. Note: Using Batching Plant, Transit Mixer & Concrete Pump		
5.05.18.01	In individual and continuous footing of column, raft and floor slab at plinth level	cum	19,142.78
5.05.18.02	In foundation beam	cum	20,574.02
5.05.18.03	In pedestal, column, capital lift wall and wall :		
5.05.18.03.01	Below Plinth Level and in Ground Floor	cum	26,477.87
5.05.18.03.02	Add for each additional floor up to 5th Floor	cum	Add +.35% with Item No 5.05.18.03.01
5.05.18.03.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.63% with Item No 5.05.18.03.01
5.05.18.03.04	Add for each additional floor for 10th floor and above	cum	Add +.85% with Item No 5.05.18.03.01
5.05.18.04	In Tie Beam and Lintel :		
5.05.18.04.01	Below Plinth Level and in Ground Floor	cum	23,615.39
5.05.18.04.02	Add for each additional floor up to 5th Floor	cum	Add +.41% with Item No 5.05.18.04.01
5.05.18.04.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.75% with Item No 5.05.18.04.01
5.05.18.04.04	Add for each additional floor for 10th floor and above	cum	Add +1.00% with Item No 5.05.18.04.01
5.05.18.05	In Tee Beam, Ell Beam, Rectangular Beam etc. (exposed breadth and width of ribs to be measured only).		
5.05.18.05.01	Below Plinth Level and in Ground Floor	cum	24,152.11
5.05.18.05.02	Add for each additional floor up to 5th Floor	cum	Add +.38% with Item No 5.05.18.05.01
5.05.18.05.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.69% with Item No 5.05.18.05.01
5.05.18.05.04	Add for each additional floor for 10th floor and above	cum	Add +.92% with Item No 5.05.18.05.01
5.05.18.06	In roof slab of all types, cantilever slab and drop panels (excluding floor slab of ground floor at plinth level).		
5.05.18.06.01	Below Plinth Level and in Ground Floor	cum	23,078.68
5.05.18.06.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.18.06.01
5.05.18.06.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.18.06.01
5.05.18.06.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.18.06.01
5.05.18.07	In sunshade, cornice, railing, drop wall, louver and fins (Average 62mm to 87mm thick)		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.05.18.07.01	Below Plinth Level and in Ground Floor	cum	32,739.52
5.05.18.07.02	Add for each additional floor up to 5th Floor	cum	Add +.95% with Item No 5.05.18.07.01
5.05.18.07.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +1.75% with Item No 5.05.18.07.01
5.05.18.07.04	Add for each additional floor for 10th floor and above	cum	Add +2.38% with Item No 5.05.18.07.01
5.05.18.08	In Stair case slab and step		
5.05.18.08.01	Below Plinth Level and in Ground Floor	cum	23,973.20
5.05.18.08.02	Add for each additional floor up to 5th Floor	cum	Add +.40% with Item No 5.05.18.08.01
5.05.18.08.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.72% with Item No 5.05.18.08.01
5.05.18.08.04	Add for each additional floor for 10th floor and above	cum	Add +.96% with Item No 5.05.18.08.01
5.05.18.09	In Waffle or Ribbed floor/roof slab		
5.05.18.09.01	Below Plinth Level and in Ground Floor	cum	35,602.00
5.05.18.09.02	Add for each additional floor up to 5th Floor	cum	Add +.26% with Item No 5.05.18.09.01
5.05.18.09.03	Add for each additional floor from 6th floor upto 9th floor	cum	Add +.46% with Item No 5.05.18.09.01
5.05.18.09.04	Add for each additional floor for 10th floor and above	cum	Add +.62% with Item No 5.05.18.09.01

Section-06: MS Rod Fabrication, MS Clamp, Expansion Joints & Bearing Joints

5.06.01 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, tying 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 unless otherwise shown in the drawing, wastages, binding wire, concrete cover blocks etc. as the cost of these is included in the unit rate. Note: Tests for reinforcing bars shall be conducted at LGED/ BUET/ DUET/ CUET/ KUET/ RUET.

5.06.01.01	Grade 300 (RB 300): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, f_y (ReH) = 300 MPa, but the tested yield strength shall not exceed f_y by more than the 125 MPa and the ratio of tested ultimate strength, f_u (Re) to tested yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.	kg	89.63
5.06.01.02	Grade 400 (RB 400/ 400W): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, f_y (ReH) = 400 MPa, but the tested yield strength shall not exceed f_y by more than the 125 MPa and the ratio of tested ultimate strength, f_u (Re) to tested yield strength (f_y) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively.	kg	101.40
5.06.01.03	Grade 420 (B420DWR): Ribbed or Deformed bar produced and marked as per ISO 6935-2:2015/ ASTM A706M - 16 with minimum yield strength, f_y (ReH) = 420 MPa but f_y (ReH) not exceeding 540 MPa, the ratio of ultimate tensile strength, f_u (Rm) to actual yield strength, f_y (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.	kg	100.74
5.06.01.04	Grade 500 (RB 500/ 500W): Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield stress, f_y (ReH) = 500 Mpa and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively. This reinforcement shall be selected as per instruction given in the drawing & after getting approval from Design unit, LGED.	kg	100.09

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.06.01.05	Grade 550: Deformed bar produced and marked as per ASTM A706M - 16 with minimum yield strength, $f_y = 550$ Mpa but f_y not exceeding 675 Mpa, minimum ultimate strength, $f_u = 690$ Mpa, the ratio of actual ultimate tensile strength, f_u to actual yield strength, f_y 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.	kg	100.09
5.06.02	FBECR: Extra over item code: 5.06.01 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 20mm 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.]		
5.06.02.01	8mm to 12mm	kg	13.46
5.06.02.02	16mm to 50mm	kg	10.77
5.06.03	Supplying and fabrication of High Yield strength (500 MPa, Galvanized wire rope) of required size and length for all types of Arch type structure 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	265.14
5.06.04	Supplying, fitting and fixing mechanical couplers of various diameter confirming to ACI/ AASHTO having minimum connection strength at least 125% of nominal yield strength, f_y 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 patented 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		
5.06.04.01	For 25mm diameter rebar Coupler	each	296.08
5.06.04.02	For 32mm diameter rebar Coupler	each	400.71
5.06.04.03	For 40mm diameter rebar Coupler	each	609.98
5.06.04.04	For 50mm diameter rebar Coupler	each	675.38
5.06.05	Supplying and fabrication of mild steel of any sections as I, Circular, Tube, Tee, Angle of Mild steel Grade -250 with minimum $f_y = 250$ MPa work in roof truss or any other member as per design, hoisting, fitting and fixing in position with bolts and nuts or rivets or welded and providing two coats of anticorrosive paint over a prime coat of red oxide paint etc. all complete as per direction of the E-I-C (Measurement be given for solid steel section only).	kg	131.87
5.06.06	Supplying fan hook of 16mm dia MS rod (RB 300) (one meter long) having rounded hook at the middle of bar in proper size i/c. fabrication and fixing in position in all floors etc. all complete as per direction of the E-I-C.	each	146.21
5.06.07	Supplying, fitting and fixing MS flat bar clamp (175mmx38mmx6mm) with bifurcated ends to door and window frames with necessary screws and encasing inside the wall with cement concrete (1:2:4) with curing, etc. all complete as per direction of the E-I-C.	each	136.40
5.06.08	Supplying, fitting and fixing MS flat bar clamp (150mmx38mmx6mm) with bifurcated ends to door and window frames with rowel plug, necessary screws etc. with the help of electric drill/hammer drill in/c. cutting groove in chowkat if necessary etc. complete in all respect as per direction of the E-I-C.	each	105.30

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.06.09	Constructing expansion joints 25mm/38mm gap in RCC floor or roof slab or beam provided with "V" folded copper/aluminium water stop sheet with loop, notch and inserted 75mm concrete shoulders, the gap being filled up with mixture of hot applied bituminous sealing compound etc. all complete as per direction of the E-I-C. (Excluding the cost of floor shoulders and floor finishes).		
5.06.09.01	With copper sheet	m	841.59
5.06.09.02	With Aluminum sheet	m	777.83
5.06.09.03	With Aluminum sheet & 6mmx75mm size MS plate.	m	1,140.16
5.06.10	Providing bearing joints fixed or free with 250mmx375mmx10mm MS shoe plate fitted in the truss angles with 16mm dia MS rod counter sunk, rivets and anchored to 250mmx375mmx10mm MS shoe plate by two Nos. 19mm dia MS 'U' rod embedded in the bed of the lintel around the reinforcement, cleaning and greasing the joints for all floors etc. all complete as per direction of the E-I-C.	each	4,116.65

Section-07: Wood Works in Door and Window Frames, Roof Truss & Railing

5.07.01	Supplying and making door and window frames with seasoned wood of required size in/c painting two coats of coal tar to the surface in contact with wall, fitted and fixed in position and mending good any damage (All sizes of wood are finished) for all floors etc. all complete as per direction of the E-I-C.		
5.07.01.01	Garjan wood	cum	126,636.33
5.07.01.02	Jarul & local Teak wood	cum	122,677.91
5.07.01.03	Silkarai/Chikrashi wood	cum	155,603.45
5.07.01.04	Telsu wood	cum	123,087.89
5.07.01.05	Teak Chambol wood	cum	189,532.73
5.07.01.06	Mehagoni/Shishu wood	cum	115,680.00
5.07.01.07	Jack Wood	cum	141,946.91
5.07.02	Supplying, fitting and fixing door frame with MS angle (38mmx 38mmx 6mm), fixing 250mm long 6 nos. of iron clamps of same size (one end bifurcated) with vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4) in Portland Composite cement CEM II/AM, 42.5N), best quality sand (minimum FM1.8) and 20mm down well graded 1st class brick chips, mending good damages, fixing 6 nos. of 100mm size iron hinges with the vertical members of the frame for double leaf shutter, painting all iron faces in 2 coats over a coat of priming with enamel paint of approved colour and quality in/c cutting, sizing, welding for all floors, etc. all complete as per plan and direction of the E-I-C.	m	1,120.34
5.07.03	Supplying, fitting and fixing door frame with MS angle (50mmx50mmx6mm), fixing, 250mm long 6 nos. of iron clamps of same size (one end bifurcated) with vertical members of the frame, fixing the frame in wall with cement concrete (1:2:4) in Portland Composite cement CEM II/AM, 42.5N), best quality sand (minimum FM1.8) and 20mm down well graded 1st class brick chips, mending good damages, fixing 3 nos. of 100mm size iron hinges with the vertical members of the frame for single leaf shutter, painting all iron faces in 2 coats over a coat of priming with enamel paint of approved colour and quality, in/c cutting, sizing, welding for all floors, etc. all complete as per plan and direction of the E-I-C		
5.07.03.1	MS angle 50mmx50mmx6mm size	m	1,248.51
5.07.03.2	MS angle 38mmx38mmx6mm size	m	978.98
5.07.04	Supplying and making well matured natural seasoned solid wood works in frames of roof truss of required length and size with wall plates as per design in/c supplying, fabricating, hoisting, scaffolding, fitting and fixing in position with bolts and nuts for all floors etc. all complete as per direction of the E-I-C. (All sizes of wood are finished).		
5.07.04.01	Garjan wood	cum	107,206.46
5.07.04.02	jarul & Local Sal wood	cum	117,149.82
5.07.04.03	Silkaral (Ctg)/Chikrashi wood	cum	133,745.86
5.07.04.04	Telsu wood	cum	103,362.62
5.07.04.05	Mehagoni/Shishu wood	cum	96,440.52

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.07.04.06	Jack wood	cum	120,984.90
5.07.05	Supplying and making well matured natural seasoned solid wooden hand rail of stair case or any where required length and size etc. in/c necessary moulding as per design, fitted and fixed in position with nut, bolts, screw etc for all floors etc. all complete as per direction of the E-I-C.		
5.07.05.01	Silkarai/Chikrashi wood	cum	151,441.33
5.07.05.02	Chittagong Teak wood	cum	226,204.47
5.07.05.03	Jarul Local Sal wood	cum	120,818.16
5.07.06	Dismantling of existing/damaged steel structure and steel works of building or any structural works of any type manually or any other means without any damages in structure for reuse (as possible) and sorting the dismantled materials disposal of unserviceable materials and stacking the serviceable materials properly for measurement for all floors, 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.etc. all complete as per direction of the E-I-C.	MT	5,318.70
5.07.07	Dismantling of existing/damaged timber structure and timber works of building or structural works of any type manually or any other means without any damages in structure for reuse (as possible) and sorting the dismantled materials disposal of unserviceable materials and stacking the serviceable materials properly for measurement for all floors, 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.etc. all complete as per direction of the E-I-C.	cum	4,970.14

Section-08: Door & Window Shutter & Fly Proofs Wire Net Shutter, uPVC Door

5.08.01	Supplying, fitting and fixing 38mm thick well matured natural seasoned solid wooden door shutter (minimum 250mm wide plank) having top rail style of sections (100mmx38mm) lock rail (125mmx38mm) and bottom rail (225mmx38mm), closed joints and provided with best quality 4 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts, 2 nos. heavy type nickel plated handle, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single leaf door. All sizes of wood are finished).		
5.08.01.01	Jack wood	sqm	8,579.01
5.08.01.02	Gamari/Chapalish wood	sqm	7,036.97
5.08.01.03	Teak Chambal wood	sqm	10,866.58
5.08.01.04	Chittagong Teak wood	sqm	12,976.20
5.08.01.05	Mehagoni wood	sqm	7,247.27
5.08.02	Supplying, fitting and fixing 38mm thick well matured natural seasoned wooden flush door shutters (minimum 250mm wide plank) having a frame of top, lock and bottom rail of sections (100mmx12mm) styles (100mmx38mm) covered with (100mmx12mm) plank, screwed to each face and provided with best quality 4 nos. 100mm iron hinges, 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single leaf door. All sizes of wood are finished).		
5.08.02.01	Jack wood	sqm	6,934.70
5.08.02.02	Gamari & Chapalish wood	sqm	5,627.17
5.08.02.03	Teak Chambal wood	sqm	8,791.45
5.08.02.04	Ctg. Teak wood	sqm	10,566.71
5.08.02.05	Mehagoni wood	sqm	5,754.41

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1	2	3	4
5.08.03	Supplying, fitting and fixing 38mm thick well matured natural seasoned wooden panel door shutters (minimum 250mm wide plank), top, rail and styles of sections (100mmx38mm), lock rail (125mmx38mm) and bottom rail (225mmx38mm) paneling 38mm thick both sides raised, provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handle, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished).		
5.08.03.01	Jack wood	sqm	9,333.73
5.08.03.02	Gamari/Chapalish wood	sqm	7,720.63
5.08.03.03	Teak Chambal wood	sqm	11,758.56
5.08.03.04	Chittagong Teak wood	sqm	13,981.17
5.08.03.05	Mehagoni wood	sqm	7,876.42
5.08.04	Supplying, fitting and fixing 38mm thick well matured natural seasoned wooden panel door shutters (minimum 250mm wide plank) top rail and styles of sections (100mmx38mm) lock rail, (125mmx38mm) and bottom rail (225mmx38mm), paneling 25mm thick one side raised provided with best quality 6 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single/Double leaf. All sizes of wood are finished).		
5.08.04.01	Jack wood	sqm	8,570.77
5.08.04.02	Gamar/Chapalish wood	sqm	7,172.34
5.08.04.03	Teak Chambal wood	sqm	10,624.98
5.08.04.04	Chittagong Teak wood	sqm	12,513.72
5.08.04.05	Mehagoni wood	sqm	7,283.26
5.08.05	Supplying, fitting and fixing 38mm (finished) thick well matured natural seasoned wooden grooved panel flash door shutters (minimum 250mm wide plank) with top and middle rail (100mmx38mm), bottom rail (225mmx38mm) and style (100mmx38mm) size having vertical panels (100mmx38mm) in/c keeping (6mmx12mm) uniform groove all around and minimum 12mm grooved lap to each panel, providing 4 nos. best quality 100mm iron hinges, 12mm dia best quality 225mm and 300mm iron socket and tower bolts, 2 nos. heavy type best quality nickel plated handle, hinge cleats, wooden buffer blocks in/c supplying necessary nails and screws, preparing surface by sand papering for all floors etc. complete in all respect as per drawing and direction of the E-I-C. (Single leaf. All sizes of wood are finished).		
5.08.05.01	Jack wood	sqm	9,652.13
5.08.05.02	Gamari/Chapalish wood	sqm	7,964.03
5.08.05.03	For Chittagong Teak wood	sqm	14,458.09
5.08.05.04	For Mehagoni wood	sqm	8,133.35
5.08.06	Supplying, fitting & fixing of flash door for internal use made of 36mm thick & 400 Kg/m ³ density solid particle board with a solid well matured Garjan wooden frame (min. 250mm wide plank) having finished size (36mmx50mm) all around upon which 1.4mm thick veneer (total 2 nos. of veneers, one of 0.7mm horizontally and another of 0.7mm vertically) are pasted on each side by mechanized process and provided with best quality 4 nos. 100mm iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts, 2 nos. heavy type nickel plated handles, hinge cleats, buffer blocks for all floors etc. all complete as per direction of E-I-C (Single leaf door).		
5.08.06.01	Burma Teak Veneered	sqm	1,757.45
5.08.06.02	Champa Veneered	sqm	1,197.00
5.08.06.03	Chapalish Veneered	sqm	1,638.29
5.08.06.04	Garjan Veneered	sqm	1,428.59

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.08.07	Manufacturing and supplying fitting fixing well matured natural seasoned wooden fixed louver shutters (min 250mm wide plank) having frame (62mmx125mm) and inner horizontal wooden louver (150mmx20mm) spaced @75mm c/c fixed with frame in grooves in/c cost of screws, nails, wooden bit, preparing the surface by sand papering for all floors etc complete in all respect as per drawing and direction of the E-I-C (All sizes of wood are finished).		
5.08.07.01	Chapallish & Gammari wood	sqm	13,278.62
5.08.07.02	Chittagong Teak wood	sqm	21,330.41
5.08.07.03	Mehagoni wood	sqm	9,978.40
5.08.07.04	Jack wood	sqm	12,456.90
5.08.08	Supplying, fitting and fixing well matured natural seasoned wooden glazed ventilator louver shutters (min 250mm wide plank) having wooden outer frame of finished section (62mmx125mm) vertical divider and inner horizontal glazed louver (local) of size (150mmx6mm) fixed in frame @112mm c/c by cutting grooves in the frame in/c cost of screw, wooden bit, sand papering, cutting glass to required size for all floors, etc. all complete as per design drawing and direction of the E-I-C and as per standard practice (All sizes of wood are finished)		
5.08.08.01	Chapalish & Gammari wood	sqm	7,245.89
5.08.08.02	Teak Chambal wood	sqm	8,741.74
5.08.08.03	Chittagong Teak wood	sqm	10,529.14
5.08.08.04	Mehagoni wood	sqm	5,900.16
5.08.08.05	Jack wood	sqm	6,910.82
5.08.09	Supply, fitting and fixing 38mm thick well matured wooden glazed door shutters (min 250mm wide plank) having styles and rails of section (150mmx38mm) and 5mm thick glass panes fitted and fixed with wooden batten, putty and nails in/c supplying, fitting and fixing 50mm dia best quality round door lock, 12mm dia 300mm long iron tower bolt and 4 nos. 100mm long iron hinges to each shutters hinged cleats, buffer blocks, finished with necessary sand papering and putty works for all floors etc. all complete as per direction of the E-I-C and standard practice. (All sizes of wood are finished)		
5.08.09.01	Chittagong Teak wood	sqm	10,096.18
5.08.09.02	Silkara wood	sqm	8,032.27
5.08.09.03	Mehagoni wood	sqm	6,917.67
5.08.09.04	Jack wood	sqm	7,651.00
5.08.10	Supplying, fitting and fixing 38mm thick well matured natural seasoned wooden glazed window shutters (min 250mm wide plank) having horizontal and vertical sections (87mmx38mm) and sash bar (38mmx38mm) fitted with 3mm thick glass panes with putty, nails and provided with best quality 4 nos. 75mm long iron hinges, 2 nos. best quality 12mm dia 250mm and 150mm long iron tower and socket bolts, nickel plated handles, 225mm long catch hooks or hinges cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (All sizes of wood are finished)		
5.08.10.01	Jack wood	sqm	7,055.05
5.08.10.02	Gamari & Chappalish wood	sqm	5,975.62
5.08.10.03	Teak Chambal wood	sqm	8,656.35
5.08.10.04	Chittagong Teak wood	sqm	10,219.59
5.08.10.05	Mehagoni wood	sqm	6,171.14
5.08.11	Supplying, fitting and fixing 38mm thick well matured wooden window shutter (min 250mm wide plank) one third glazed and 38mm thick two third both sides raised paneling having horizontal and vertical sections (87mmx38mm) and sash bars (38mmx38mm) fitted with 3mm thick glass panes with putty and nails and provided with best quality 4 nos. 75mm long iron hinges, 2 nos. best quality 12mm dia 250mm and 150mm long iron tower and socket bolts, nickel plated handles, 225mm long catch hooks or hinged cleats, buffer blocks and with sand papering for all floors etc. all complete as per direction of the E-I-C. (All sizes of wood are finished)		

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1	2	3	4
5.08.11.01	Jack wood	sqm	9,658.86
5.08.11.02	Gammari & Chappalish wood	sqm	7,752.55
5.08.11.03	Teak Chambal wood	sqm	12,426.78
5.08.11.04	Chittagong Teak wood	sqm	15,100.95
5.08.11.05	Mehagoni wood	sqm	8,019.99
5.08.12.01	Supplying, fitting and fixing steel glazed window shutter with frames as per design having angle section (25mmx25mmx5mm) for chowkat and shutters and 'T' section (50mmx25mmx5mm) used for vertical member and F.I. bar (26mmx5mm) for making box (two angle combining) and 'T' (25mmx19mmx5mm) used for glass divider etc. in/c all cost of charges by welding, reverting, etc. supplying all essential fittings like iron hinges, plate handle, pin-stopper, adjustable cleat and clamps fitting and fixing the frame in/c supplying, fitting, fixing 3mm thick glass panes by pucca putty and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, making necessary holes in walls and RCC works and necessary filling with Cement Concrete (1:2:4) and mending good the damages in/c all cost of carriage and labour for fittings, fixing for all floors, etc. all complete as per direction of the E-I-C.	sqm	7,370.10
5.08.12.02	Supplying, fitting and fixing combined steel window shutter, frames and grill welded together as per drawing & design having requisite Nos. of vertical and horizontal standard MS (19mmx19mmx3mm) 'Z' section for shutter and MS flat bar all around (25mmx4.5mm) and (19mmx3mm), 10mm square bar as grill welded horizontally @ 100mm c/c, only catch locking handle position gap should 125mm, at inner face of window frame with F.I. clamp 75mmx3mm duly embedded with Cement Concrete (1:2:4) and mending good the damages in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hook 300mm long adjustable iron cleat, 50mm long pin hinge in/c supplying, fitting, fixing 18 BWG M.S. sheet in position welded to steel shutter with Tee stiffener (2 nos.) made with 25mm and 19mm flat bars fitted to shutter frame in Two equal part and upper part should be provided with 5mm clear glass, vertically in each shutter panel and putty and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, , etc for all floors. all complete as per direction of the E-I-C	sqm	4,117.70
5.08.13	Supplying, fitting and fixing steel glazed window shutter with frames as per design having 'Z' section (19mmx19mmx19mmx3mm) in frame and 'T' section (19mmx19mmx3mm) for horizontal dividers of shutters and F.I. bar (25mmx3mm) for middle vertical members of frame in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 300mm long adjustable iron cleats, 50mm long pin hinges, 150mm long clamps for fitting frame in/c supplying, fitting, fixing 3mm thick glass panes by putty and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, making necessary holes in wall and RCC work as necessary, filling with Cement Concrete (1:2:4) and mending good the damages for all floors, etc. all complete as per direction of the E-I-C and as per drawing and design.	sqm	4,784.48
5.08.14.01	Manufacturing, supplying, fitting and fixing of fixed glazed frame with outer member of 'Z' section (19mmx19mmx19mmx3mm) and vertical and horizontal dividers 'T' section (19mmx19mmx3mm) in/c all cost of fabrication and welding, supplying and fixing of 150mm long angle clamps with one end bifurcated (19mmx19mmx3mm) of required nos. with the frame fixing the frame in wall with cement concrete (1:2:4) on making necessary grooves, supplying and fixing of 3mm thick glass panes with putty, mending good all damages, painting iron faces with two coats of synthetic enamel paint of approved colour and quality over a coat of anti-corrosive priming for all floors, etc. all complete as per plan and direction of the E-I-C. (the item is meant for stair case and over partition wall etc.).	sqm	3,318.59
5.08.14.02	Supplying, fitting and fixing steel glazed sky light frame (Stair Back fixed Window) at stairs as per design having 'T' section made with flat bar 25mmx3mm as base and 19mmx3mm flat bar as perpendicular at mid of base flat bar welded 200mm c/c grid and Outer frame having 25mmx25mmx3mm MS angle in/c all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like 150mm long clamps for fitting frame in/c supplying, fitting, fixing 5mm thick glass panes at grid opening by putty and painting the sky light with two coats of synthetic enamel paint over a coat of anticorrosive priming, making necessary holes in wall and RCC work as necessary, filling with CC (1:2:4) and mending good the damages for all floors, etc. all complete as per direction of the E-I-C and as per drawing and design.	sqm	3,204.79

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5.08.15	Supplying, fitting and fixing steel window shutter with frames & grill as per drawing & design having requisite Nos. of vertical and horizontal standard MS angle (19mmx19mmx3mm) and 'Z' section (19mmx19mmx19mmx 3mm) for shutter and MS flat bar (25mmx4.5mm) and (19mmx3mm) and 10mmx10mm square bar welded horizontally @ 125mm at inside face of frame of window shutter with F.I. clamp 75mmx3mm duly embedded in Cement Concrete (1:2:4) and mending good the damages in/c finishing the intersecting points by filling with all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hooks, 300mm long adjustable iron cleats, 50mm long pin hinges, 150mm long clamps for fitting frame in/c supplying, fitting, fixing 22 BWG M.S. sheet in position welded to steel shutter with (19mmx3mm) MS flat bar stiffener and putty and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, , etc for all floors. all complete as per direction of the E-I-C	sqm	3,971.51
5.08.16	Supplying, fitting and fixing steel window shutter with frames & grill as per drawing & design having requisite Nos. of vertical and horizontal standard MS angle (19mmx19mmx3mm) and 'Z' section (19mmx19mmx19mmx 3mm) for shutter and MS flat bar (25mmx4.5mm) and (19mmx3mm) and 10mmx10mm square bar welded horizontally @ 125mm at inside face of frame of window shutter with F.I. clamp 75mmx3mm duly embedded in Cement Concrete (1:2:4) and mending good the damages in/c finishing the intersecting points by filling with all cost of charges for fabrication and manufacture by welding, riveting, etc. supplying all essential fittings like stopper, handle, 3 nos catch hooks, 300mm long adjustable iron cleats, 50mm long pin hinges, 150mm long clamps for fitting frame in/c fitting, fixing provision of 3mm clear glass panes in position with putty to steel shutter and painting the window with two coats of synthetic enamel paint over a coat of anticorrosive priming, , etc for all floors. all complete as per direction of the E-I-C (Rate is excluding cost of glass panes)	sqm	3,242.20
5.08.17	Supplying, fitting and fixing distortion free 3mm thick clear glass of approved quality in steel windows in/c cost of fitting, fixing all necessary accessories and putty for all floors etc. complete in all respect as per drawing and direction of the E-I-C.	sqm	982.26
5.08.18	Supplying, fitting and fixing 25mm thick wooden fly proof wire netting window shutter with vertical and horizontal style (75mmx25mm) and sash bar (38mmx25mm) provided with 24 BWG GI wire netting of 20 mesh, fitted and fixed with shutter by 12mmx12mm wooden bit, screws, nails etc. in/c supply of all necessary fittings such as 2 nos. 150mm long brass tower and socket bolt of best quality, 4 nos. 75mm long brass hinges, heavy type 2 nos. 150mm long catch hook and 2 nos. 100mm long brass handle in/c fitting and fixing the same in position with frame with supply of necessary screws and nails etc. all complete as per direction of E-I-C. (Double leaf. All sizes of wood are finished)		
5.08.18.01	Jack wood	sqm	5,161.28
5.08.18.02	Teak Chambal wood	sqm	6,246.67
5.08.18.03	Chittagong Teak wood	sqm	7,202.35
5.08.19	Supplying, fitting and fixing 25mm thick well matured Jack wood door and window shutters (min 250mm wide plank) having 'Z' battens (75mmx25mm) provided with best quality 3 nos. 100mm long iron hinges, 2 nos. best quality 12mm dia 300mm and 225mm long iron tower and socket bolts, hinged cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (All sizes of wood are finished).	sqm	6,514.80
5.08.20	Supplying fitting and fixing steel door shutter with 18 BWG MS sheet/plain plate hinged to RCC columns reinforcement with 38mmx38mmx5mm MS Angle and 25mmx6mm flat bar stiffener etc. all complete as per drawing and direction of E-I-C.	sqm	4,653.76
5.08.21	Extra cost for using brass or Stainless Steel fittings in place of iron fittings in doors and windows for all floors		
5.08.21.1	For Doors	sqm	278.98
5.08.21.2	For Windows	sqm	659.78
5.08.23	Supplying, fitting and fixing 38mm finished thick well matured natural seasoned wooden panel door shutters (minimum 250mm wide plank), top rail and styles of sections (150mmx38mm), lock rail (150mmx38mm) and bottom rail (150mmx38mm) paneling 38mm thick both sides raised, provided with best quality minimum 6 nos. 100mm Stainless Steel hinges, 1 nos. best quality 15mm dia 300mm long Stainless Steel Hatch bolt, 150mm long 1 No Stainless Steel socket bolts & 200mm long 1 No tower bolt provide on middle and top, 2nos heavy type Stainless Steel handle (inside and out side), hinge cleats, buffer blocks and finished with sand papering for all floors etc. all complete as per direction of the E-I-C. (Single leaf. All sizes of wood are finished).		
5.08.23.01	Mehagoni Wood	sqm	9,372.80

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5.08.24	Supplying, fitting and fixing best quality foreign made hydraulic door closer (big size) including all necessary tools and accessories etc. all complete as per direction of the E-I-C.	each	2,771.53
5.08.25	Supplying, fitting and fixing best quality heavy type 19mm dia 300mm long brass hasp bolt in/c cutting grooves in door shutter and frames etc. all complete as per direction of the E-I-C.	each	270.68
5.08.26	Supplying fitting, fixing of UPVC hollow or solid plastic door shutter having specific gravity 1.35-1.45, thickness 1.7 mm - 2.2 mm and other physical, chemical, thermal, fire resistivity properties etc. as per BSTI approved manufacturer standards or ASTM, BS/ISO/IS standards of different sizes fitted fixed with uPVC plastic door frame weighing 5.82 kg/m2 with at least 3 Nos Stainless Steel hinges fitted with min 64 Nos of 3.17 mm - 3.97 mm dia 12.7 mm long rivets, 12 Nos 25.4 mm Stainless Steel screws. 9.38 mm dia, 150 mm long Stainless Steel tower bolts 2 Nos, 146 mm long Stainless Steel handle fitted with rivet, fitted with 2 Nos of G.I inner joint 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 25 mm dia 1 no Stainless Steel haspbolt, special type round rack, carrying the same to site and local carriage etc. all complete as per direction of the E-I-C.		
5.08.26.01	760mmx1980mm uPVC plastic shutter (hollow)	each	3,274.14
5.08.26.02	760mmx2130mm uPVC plastic shutter (solid)	each	3,161.09
5.08.26.03	910mmx2130mm uPVC plastic shutter (hollow)	each	3,360.41
5.08.26.04	990mmx2130mm uPVC plastic shutter (solid)	each	3,742.43
5.08.27	Supplying, fitting and fixing best quality magnetic door shock absorber in position with screw etc. all complete as per direction of the E-I-C.	each	420.91
5.08.28	Supplying, fitting & fixing Cylindrical MORTICE door lock & key heavy duty of approved and accepted color, quality and type i/c making hole in thick wooden door shutter and chowkat without any damages.Made in USA/Korea/Japan or equivalent best quality etc. all complete as per direction of the E-I-C.	each	828.87
5.08.29	Supplying, fitting & fixing Handle door lock & key heavy duty and both side locking aggangement of approved and accepted color, quality and type i/c making hole in thick wooden door shutter and chowkat without any damages.Made in USA/Korea/Japan or equivalent best quality etc. all complete as per direction of the E-I-C.	each	4,667.52
5.08.30	Supplying, fitting & fixing of Pad lock & key heavy duty Steel sheet body of approved and accepted color, quality and type made in India or equivalent best quality etc. all complete as per direction of the E-I-C.		
5.08.30.01	75mm Pad lock & key heavy duty Steel sheet body	each	550.10
5.08.30.02	50mm Pad lock & key heavy duty Steel sheet body	each	383.40
5.08.31	Supplying, fitting and fixing best quality heavy type Stainless Steel hasp bolt in/c cutting grooves in door shutter and frames etc.all complete as per direction of the E-I-C.		
5.08.31.01	Door Hasp bolt Stainless Steel 300mm long and 16mm dia	each	396.23
5.08.31.02	Door Hasp bolt Stainless Steel 250mm long and 16mm dia	each	344.93
5.08.33	Taking off old door and window frames and shutter without any damages of structure including selecting, storing and stacking properly in measurable stacks after carrying those to a safe distance or preselected place, etc. all complete as per direction of the E-I-C.		
5.08.33.1	Doors	each	448.80
5.08.33.2	Windows	each	359.04

Section-09: CI Sheet Roofing and Fiber glass sheet Roofing Works

5.09.01.01	Supplying, fitting and fixing 0.46mm (26 SWG) thick galvanized iron corrugated sheet (Bangladesh made)having minimum weight 63-65 kg per bundle (2'-6" width 70 – 72 rft long) roofing fitted and fixed on MS sections with 'J' hook or wooden purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	sqm	775.53
5.09.01.02	0.46mm (26 SWG) thick galvanized iron plain sheet ridging with 300mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete as per direction of the E-I-C.	m	233.07
5.09.02.01	Supplying, fitting and fixing 0.46mm (26 SWG) thick galvanized color iron corrugated sheet (Bangladesh made) having minimum weight 63-65 kg per bundle (2'-6" width 70 – 72 rft long) roofing fitted and fixed on MS sections with 'J' hook or wooden purlins with screws, limpet washers, bitumen washers and putty etc. all complete as per direction of the E-I-C.	sqm	794.91

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5.09.02.02	0.46mm (26 SWG) thick color iron plain sheet ridging with 300mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete as per direction of the E-I-C.	m	381.39
5.09.03.01	Supplying, fitting and fixing 1.5 mm thick fiber glass corrugated sheet roofing fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. all complete as per direction of the E-I-C.	sqm	955.56
5.09.03.02	Supplying, fitting and fixing 1.5 mm thick plain fiber glass sheet ridging with 300 mm lap on either side fitted and fixed with galvanized bolts and nuts etc. all complete as per direction of the E-I-C.	m	326.98
5.09.04	Taking off CI sheet or fiber glass roofing of building without any damages of structure by any means, including selecting, storing and stacking properly in measurable stacks after carrying those to a safe distance or preselected place, etc. all complete as per direction of the E-I-C.	sqm	448.80
5.09.06	Supplying, fitting and fixing temporary safety net around the construction work place where public safety is likely to be endangered due to construction activities along the height of the building; which will be made of Nylon safety net or hessian cloth and supported using scaffolding and safety canopy around the building for construction working level which protect from drop down construction materials of RCC work/ brick work/ plaster or any other work; including standard necessary anchors, cables, wires, ties etc. all complete and accepted for safety as per direction of the Engineer-in-charge. (Rate is excluding the cost of Scaffolding and Safety canopy)	sqm	47.39

Section-10: Window Grill & Verandah Grill Netting

5.10.01	Supplying, fitting and fixing window grills or any where directed made of 16mm dia MS rod @100mm c/c fitted with 3 (three) nos horizontal MS flat bar (40mmx6mm) @ 450mm c/c maximum, in/c. fabricating, welding of each point, riveting, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member and painting with two coats of synthetic enamel paint over a coat of anticorrosive priming for all floors etc. all complete as per direction of the E-I-C. (Total weight per sqm should be approx. 18.00 kg and add or deduct @ Tk. 35.00 for each kg excess or less respectively as the case may be)	sqm	2,934.44
5.10.02	Supplying, fitting and fixing window grills or any where directed of any design made of mild steel F.I bar inner section (20mmx3mm) with outer frame of F.I. bar (25mmx6mm), fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming for all floors etc. all complete as per direction of the E-I-C. (Total wt. per m2 should be 11.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 140.00 per kg)	sqm	2,380.77
5.10.03	Supplying, fitting and fixing window grills of any design made of mild steel F.I bar inner section (20mmx5mm) with outer frame of F.I. bar (25mmx6mm), fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming for all floors etc. all complete as per direction of the E-I-C. (Total wt. per m2 should be 14.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk.125.00 per kg)	sqm	2,776.98
5.10.04	Supplying, fitting and fixing window grills or any where directed of any design made with F.I. bar (20mmx5mm) as inner and outer section; in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C. (Total wt. per m2 should be 12.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 136.00 per kg)	sqm	2,656.07
5.10.05	Supplying, fitting and fixing window grills or any where directed of any design made with F.I. bar (20mmx5mm) as inner member but no outer frame; in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolts in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C. (Total wt. per m2 should be 10.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk.152.00 per kg)	sqm	2,532.30
5.10.06	Supplying, fitting, fixing window grills or any where directed of any design made with F.I. bar (25mmx6mm) as both outer and inner section in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C. (Total wt. per m2 should be 21.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk. 113.00 per kg)	sqm	3,538.57

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5.10.07	Supplying, fitting and fixing window grills or any where directed of any design made with F.I. bar (25mmx6mm) as inner member but no outer frame; in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C. (Total wt. per m2 should be 18.00 kg. For each kg excess or less add or deduct, as the case may be, @Tk.108.00 per kg)		
5.10.07.01	25mmx6mm Flat Iron Bar	sqm	3,241.12
5.10.07.02	25mmx6mm FI Bar or approved size (The measurement and weight should be taken before fixing in position)	kg	220.18
5.10.08	Supply, fitting and fixing window grill or any where directed by made of 12mm x 12mm hollow M.S. box made of minimum 16 BWG M.S. sheet @ 4" c/c with outer frame of 38mmx6mm F.I. bar etc. in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member. Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C.		
5.10.08.01	MS Hollow box 12mmx12mmx16 BWG	sqm	4,032.66
5.10.08.02	MS Hollow box 12mmx12mmx16 BWG (The measurement and weight should be taken before fixing in position) .	kg	148.31
5.10.09	Supplying, fitting, fixing MS grills made of 10mm dia MS rod @100mm c/c both ways, fitted with MS angles (25mmx25mmx6mm) outer frame in/c fabricating, welding of each point, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member. Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C.	sqm	2,860.60
5.10.10	Supplying, fitting and fixing verandah grill or any where directed made of 10mm dia MS rods provided 75mm c/c in any position both ways as per design with outside MS angle frame (25mmx25mmx6mm) in/c fabricating, welding, cost of electricity, workshop charge, carriage, fixing with M.S. clamps or steel royal bolt in walls/RCC member. Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C.	sqm	3,223.65
5.10.11	Supplying, fitting and fixing window grill, high window grill, ventilation grill, sky window grill or anywhere as directed by the Engineer; making the grill with 20mm or 12 mm or 10mm M.S. square solid bar @ 600mm c/c vertically, fitted with M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally; having outer frame of 25mmx5mm F.I. bar fixing the grill with M.S. clamp or Steel royal bolt in walls/RCC member as per approved design and drawing for all floors in/c fabricating, welding, cost of electricity, workshop charge, carriage, Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C.		
5.10.11.01	M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally with M.S. square solid bar 25mm x 25 mm @ 600mm c/c vertically	sqm	3,146.53
5.10.11.02	M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally with M.S. square solid bar 20mm x 20 mm @ 600mm c/c vertically	sqm	2,845.26
5.10.11.03	M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally with M.S. square solid bar 12mm x 12 mm @ 600mm c/c vertically	sqm	2,464.30
5.10.11.04	M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally with M.S. square solid bar 10mm x 10 mm @ 600mm c/c vertically	sqm	2,402.14
5.10.11.05	M.S. flat bar series of 20mmx5mm FI bar @ 100mm c/c horizontally with M.S. square hollow box 20mmx20mmx16 gauge @ 600mm c/c vertically	sqm	2,531.31
5.10.12	Supplying, fitting and fixing window grill, high window grill, ventilation grill, sky window grill or anywhere as directed by the Engineer; making the grill with 20mm or 12 mm or 10mm M.S. square solid bar series @ 150mm, 100mm and 50mm c/c respectively horizontally and stiffener of 20mm M.S. square solid bar vertically, fitted with M.S. flat bar 25mmx5mm outer frame fixing the grill with M.S. clamp or Steel royal bolt in walls/RCC member as per approved design and drawing for all floors in/c fabricating, welding, cost of electricity, workshop charge, carriage, Painting with two coats of synthetic enamel paint over a coat of anticorrosive priming etc. all complete for all floor as per direction of the E-I-C.	sqm	
5.10.12.01	M.S. square solid bar series 20mm x 20 mm @ 150mm c/c horizontally with M.S. flat bar 25mmx5mm outer frame	sqm	3,693.18
5.10.12.02	M.S. square solid bar series 12mm x12 mm @ 100mm c/c horizontally with M.S. flat bar 25mmx5mm outer frame	sqm	2,897.37

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5.10.12.03	M.S. square solid bar series 10mm x10 mm @ 50mm c/c horizontally with M.S. flat bar 25mmx5mm outer frame	sqm	3,254.78
5.10.12.04	M.S. square solid bar series 10mm x10 mm @ 25mm c/c horizontally with M.S. flat bar 25mmx5mm outer frame	sqm	4,292.38
5.10.13	Supplying, fitting and fixing verandah drop or ventilation Grill or anywhere as directed made of 10mmx10mm MS square box series having minimum wall thickness 16 gauge @35mm c/c horizontal and 50mmx50mm MS square box of minimum wall thickness 3mm at top and sides and 75mmx75mm square box of minimum wall thickness 3mm at bottom as per design and drawing fixed with vertical stiffener 20mmx20mm MS square box of minimum wall thickness 16 gauge @ 700mm c/c clamped in RCC or brick work by 40mmx40mm MS square box of minimum wall thickness 3mm i/c cost of fabricating, cutting, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with Cement Concrete (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	3,938.28
5.10.14	Supplying, fitting and fixing verandah drop or ventilation Grill or anywhere as directed made of 10mmX10mm MS square bar series @ 35mm c/c Horizontally (25mm gap inbetween) and 1 pair vertical 10mmX10mm square bar with 25mm gap @ 535mm c/c between consecutive pair, welded to outer frame made of MS flat bar of size 25mmx3mm having anchoring Clamps of 25mmx25mmx3mm MS Angle @750mm c/c to be embaded in RCC or Brick work i/c cost of fabricating, cutting, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with Cement Concrete (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	4,273.89
5.10.15	Manufacturing, Supplying, fitting, fixing of ordinary type M.S. folding gate with 12mm x12mm MS square solid bar and 25 mm x 25mm x 6 mm MS Angle box frame with MS Angle 40mmx40mmx6mm size box including fabrication, welding, cost of electricity, workshop charges, carriage, cutting grooves, mending good the damages, finishing, curing etc. including fabrication, riveting, welding as and where necessary, etc. all complete as per drawing, design and direction of the E-I-C.	sqm	8,723.21
5.10.16	Taking off steel or iron grill or gate of any type without any damages of structure by any means, including selecting, storing and stacking properly in measurable stacks after carrying those to a safe distance or preselected place, etc. all complete as per direction of the E-I-C.	sqm	484.06

Section-11: Aluminum Door, Window Frame, Tinted & Tempered Glass & Curtain Wall

5.11.01	Supplying, fitting and fixing of aluminium swing doors as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.8mm thick wall frame (size:101.60mm, 44.45mm, 83.21mm), 2.33mm thick shutter side (size:54mm, 46mm), 0.99mm thick door glass bit (size:16.54mm, 15.49mm), 2.5mm thick closure section (size:101.60mm, 42.93mm), 1.5mm thick closure cover (size:101.60mm), 4mm thick floor bottom (size:101.60mm, 12.70mm), 2.3mm thick shutter bottom (size:82.6mm, 43.99mm), 2.3mm thick shutter top (size:51mm, 43.99mm) and 2.3mm to 4mm thick handle (size:101.60mm, 38.10mm, 25.40mm). Sections of all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm2 etc. in/c all accessories like handle, locks (Japan), auto-closure stopper (USA/Japan), flash bolt, weather seal etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. all complete in all respect as per drawing and direction of the E-I-C.		
5.11.01.01	Bronze colour	sqm	7,986.46
5.11.01.02	Silver colour	sqm	7,898.51

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5.11.02	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 having 1.8mm thick wall frame (size:101.60mm, 44.45mm, 83.21mm), 2.33mm thick shutter side (size:54mm, 46mm), 0.99mm thick door glass bit (size:16.54mm, 15.49mm) 2.5mm thick closure section (size:101.60mm, 42.93mm), 1.5mm thick closure cover (size:101.60mm, 4mm) thick floor bottom (size:101.60mm, 12.70mm), 2.3mm thick shutter bottom (size:82.6mm, 43.99mm) 2.3mm thick shutter top (size:51mm, 43.99mm) 2.3mm to 4mm thick handle (short) (size:101.60mm, 38.10mm, 25.40mm) 1.8mm thick top and side (size:101.60mm, 44.45mm), 1.80mm thick bottom (size:101.35mm, 44.45mm), 1.50mm thick bottom cover (size:44.32mm, 19.61mm), 1.50mm thick groove cover (size:83.21mm, 16.00mm), 1.00mm thick fixed glass protector bit (size:15.75mm, 14.81mm) section of all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm ² etc. in/c all accessories like handle, locks (Japan), auto-closure (USA), stopper, flush bolt, weather seal etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.02.01	Bronze colour	sqm	5,046.74
5.11.02.02	Silver colour	sqm	5,031.37
5.11.03	Supplying, fitting and fixing of aluminium sliding doors as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick outer bottom (size:75.50mm, 17.79mm), 1.5mm thick outer top (size:75.50mm, 26.80mm), 1.5mm thick shutter top (size:33mm, 26.80mm, 22mm) 1.5mm thick shutter bottom (size:60mm, 24.4mm), 1.5mm thick outer side (size:75.50mm, 19.90mm), 1.5mm thick shutter lock (size:49.20mm, 26.0mm), 1.5mm thick interlock (size:34.40mm, 32.10mm) and 1.5mm thick shutter divider (size:31.75,22mm). Sections all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm ² etc. in/c all accessories like handle, locks (Japan), roller, stopper etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
	Size: 2100mmx2100mm		
5.11.03.01	Bronze colour	sqm	3,462.69
5.11.03.02	Silver colour	sqm	3,419.89
5.11.04	Supplying, fitting and fixing of aluminium sliding doors as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick outer bottom (size:75.50mm, 17.79mm), 1.5mm thick outer top (size:75.50mm, 26.80mm), 1.5mm thick shutter top (size:33mm, 26.80mm, 22mm), 1.5mm thick shutter bottom (size:60mm, 24.4mm), 1.5mm thick outer side (size:75.50mm, 19.90mm), 1.5mm thick sliding fixed side (size:31mm, 26mm), 1.5mm thick shutter lock (size:49.20mm, 26.0mm), 1.5mm thick interlock (size:34.40mm, 32.10mm) 1.5mm thick shutter divider (size:31.75,22mm) and 1.4mm to 1.5mm thick spandrel (size:152.4,7.14mm). Sections all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm ² etc. in/c all accessories like handle, looks (Japan), roller, stopper etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
	Size:1800mmx2100mm		
5.11.04.01	Bronze colour	sqm	3,937.61
5.11.04.02	Silver colour	sqm	3,868.19

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5.11.05	Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick outer bottom (size:75.50mm, 17.79mm), 1.5mm thick outer top (size:75.50mm, 26.80mm) 1.5mm thick shutter top (size:33mm, 26.80mm, 22mm), 1.5mm thick shutter bottom (size:60mm, 24.40mm), 1.5mm thick outer side (size:75.50mm, 19.90mm), 1.5mm thick sliding fixed side (size:31mm, 26mm), 1.5mm thick shutter lock (size:49.20mm, 26.0mm) and 1.5mm thick interlock (size:34.40mm, 32.10mm). Sections all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm2 etc. in/c all accessories like handle, locks (Japan), roller, stopper etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.05.01	Bronze colour[Size : 1500mmx1400mm]	sqm	3,928.96
5.11.05.02	Silver colour[Size : 1500mmx1400mm]	sqm	3,861.18
5.11.05.03	Bronze colour[Size : 900mmx1400mm]	sqm	5,752.68
5.11.05.04	Silver colour[Size : 900mmx1400mm]	sqm	5,654.81
5.11.06	Supplying, fitting and fixing of aluminium sliding and fixed composite window as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick outer bottom (size:75.50mm, 17.79mm), 1.5mm thick outer top (size:75.50mm, 26.80mm), 1.5mm thick shutter top (size:33mm, 26.80mm, 22mm), 1.5mm thick shutter bottom (size:60mm, 24.40mm), 1.5mm thick outer side (size:75.50mm, 19.90mm), 1.5mm thick sliding fixed side (size:31mm, 26mm), 1.5mm thick shutter lock (size:49.20mm, 26.0mm) 1.5mm thick interlock (size:34.40mm, 32.10mm), 1.5mm thick bottom cover (size:37.78mm, 31.78mm), 1.8mm thick bottom (size:76.20mm, 38.10mm, 57.15mm), 1.5mm thick groove cover (size:57.15mm, 15.88mm) and 1.8mm thick top and side (size:76.20mm, 38.10mm, 57.15mm). Sections all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm2 etc. in/c all accessories like handle, locks (Japan), roller, stopper etc. keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.06.01	Bronze colour	sqm	4,228.71
5.11.06.02	Silver colour	sqm	4,127.44
5.11.07	Supplying, fitting and fixing of aluminium top hung/casement windows as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick casement outer (size:38.86mm, 36.63mm), 1.5mm thick casement outer (size:38.86mm, 36.63mm), 1.5mm thick casement shutter (size:47.62mm, 28.57mm, 40.82mm) and 1.245mm thick shutter glass clip (size:15.87mm, 27mm). Sections of all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm2 etc. in/c all accessories keeping provision for fitting 5mm thick glass (excluding the cost of glass and its supplying, fitting and fixing) in/c neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.07.01	Bronze colour	sqm	9,219.81
5.11.07.02	Silver colour	sqm	9,106.55
5.11.08	Supplying, fitting and fixing of aluminium corrugated curtain wall as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick bottom cover (size:37.78mm, 31.78mm), 1.5mm thick bottom (size:76.20mm, 38.10mm, 57.15mm), 1.8mm thick groove cover (size:57.15mm, 15.88mm), 1.5mm thick top and side (size:76.2mm, 38.10mm, 57.15mm) and 1.10mm thick spandrel (size:106.6.20mm) sections of all Aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm2 etc. in/c all accessories, neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.08.01	Bronze colour[Size : 3000mmx2100mm]	sqm	6,034.52
5.11.08.02	Silver colour[Size : 3000mmx2100mm]	sqm	5,810.37
5.11.08.03	Bronze colour[Size : 3000mmx750mm]	sqm	6,677.44
5.11.08.04	Silver colour[Size : 3000mmx750mm]	sqm	6,447.86

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5.11.09	Supplying, fitting and fixing of aluminium fixed fan light as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick bottom cover (17.40mmx31.78mm), 1.5mm thick bottom (76.20mmx38.10mm) sections of all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm ² etc. in/c all accessories, neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.09.01	Bronze colour	sqm	4,951.76
5.11.09.02	Silver colour	sqm	4,724.18
5.11.10	Supplying fitting and fixing of aluminium fixed louver as per the U.S. Architectural Aluminium Manufacturer's Association (AAMA) standard specification having 1.5mm thick wall frame (size:76.20mm, 38.10mm), 1.25mm thick louver section (size:55.02mm, 37.39mm) and 1.5mm thick louver outer section (size:39.67mm, 15.06mm) and inner inclined aluminium louver section fixed with above mentioned frames and all aluminium members will be anodized to aluminium bronze/silver colour with a coat not less than 15 microns in thickness and density of 4mg/cm ² etc. in/c all accessories neoprene, sealant for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.10.01	Bronze colour	sqm	8,465.14
5.11.10.02	Silver colour	sqm	8,260.40
5.11.11	Supplying, fitting and fixing distortion free 5mm thick tinted glass of approved quality and shade in aluminium door frames, partitions /windows in/c cost of fitting, fixing all necessary accessories for all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.11.01	Bronze colour	sqm	1,738.73
5.11.11.02	Silver colour	sqm	1,738.73
5.11.12	Supplying, fitting and fixing of approved colour (4mm thick) Aluminum composite panel (Alucobond/ Alcopanel/ Alpolic) as per US Architectural Aluminum Manufacturer's Association (AAMA) in column, beam and wall surface providing with 44x44x1.5 mm aluminum section including supply of necessary hardwares, consumables, scaffolding etc. fitted with necessary accessories like, rivet, screw, rowel bolt for all floors etc. complete in all respect as per drawing and direction of the E-I-C.	sqm	3,486.58
5.11.13	Supplying, fitting and fixing of Aluminum curtain wall and Aluminum top hung / basement windows as per the US Architectural Aluminum Manufacturer's Association (AAMA) Standard Specification having 100mmx50mmx2mm curtain wall sub - mullion outer and inner frame, 15 mm thick casement outer frame (size 38mmx36mm), 1.9 mm thick casement shutter (size 47mmx28mm) 1.2 mm thick shutter glass strips, all Aluminum member will be powder coated with coal not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50m x 50mm x 6m Aluminum angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod for all floors etc. all complete in all respect as per drawing and direction of the E-I-C.	sqm	8,276.08
5.11.14	Supplying, fitting and fixing of Aluminum curtain wall and Aluminum top hung / basement windows as per the US Architectural Aluminum Manufacturer's Association (AAMA) Standard Specification having 50mmx50mmx2mm curtain wall sub - mullion outer and inner frame, 15 mm thick casement outer frame (size 38mmx36mm), 1.9 mm thick casement shutter (size 47mmx28mm) 1.2 mm thick shutter glass strips, all Aluminum member will be powder coated with coal not less than 1.5 micron in thickness including all accessories 4 bar hinge casement handle, 50m x 50mm x 6m Aluminum angle, steel rowel bolt, screws, rivets norton tape masking tape, structural sealant, gum bracket rod for all floors etc. all complete in all respect as per drawing and direction of the E-I-C.	sqm	8,562.26
5.11.15	Supplying, fitting, fixing of Aluminum sliding fly proof Netting shutter as per the U. S. Architectural Aluminum Manufacturer's Association (AAMA) standard specification having 1mm thick 38mm x 18mm Aluminum outer frame, 1mm thick 38mm x 12mm mosquito net shutter frame (mesh section). All Aluminum members (total weight 12.79 kg) will be anodized to Aluminum SS / bronze / silver colour with a coat not less than 15 micron in thickness and density of 4 mg per square cm etc. including all accessories like wheel, sealant, 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 erecting complete for all floors in all respect as per drawing and direction of the E-I-C.	sqm	2,404.38

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1	2	3	4
5.11.16	Supplying, fitting and fixing verandah drop or ventilation Grill or anywhere directed made of 100mm Aluminum Z-louver series of minimum wall thickness 1mm @ 90mm c/c horizontally in inclined of Bronze color and fitted with Aluminum Z-louver outer section and stiffener 60mmx18mm size of 1.2mm thick fixed by Aluminum fitting angle of 30mmx30mm of 3mm thick with RCC work or brick work by SS screw in/c. drilling holes for all floors etc. all complete as per design and direction of the E-I-C.	sqm	5,588.38
5.11.17	Supplying, fitting and fixing verandah drop or ventilation Grill or anywhere directed made of 100mmx25mm Aluminum rectangular box louver series of minimum wall thickness 1mm @100mm c/c horizontally in inclined of Bronze color and fitted with Aluminum outer section and stiffener of 100mmx25mm size of 1mm thick fixed by Aluminum fitting angle of 30mmx30mm of 3mm thick with RCC work or brick work by SS screw in/c. drilling holes for all floors etc. all complete as per design and direction of the E-I-C.	sqm	6,423.05
5.11.18	Supplying, fitting and fixing in Aluminum door frames, window, partitions and curtain wall distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories all floors etc. complete in all respect as per drawing and direction of the E-I-C.		
5.11.18.01	5mm thick clear glass	sqm	1,581.70
5.11.18.02	5 mm thick tinted glass	sqm	1,738.73
5.11.18.03	5 mm thick ambushed/frosted glass	sqm	1,577.29
5.11.18.04	6 mm thick reflecting glass	sqm	1,914.84
5.11.19	Supplying fitting and fixing 10 mm thick clear tempered glass swing door including all accessories 1 set floor mounted auto closer special quality, 2 nos. top & bottom clamping device, 1 set locking device with heavy duty lock & key, top hinge (pivot) and handle for all floor etc. complete in all respect as per drawing and direction of the E-I-C.	sqm	5,288.30
5.11.20	Supplying fitting and fixing 10 mm thick clear glass partition with 44 mm x 44 mm x 1.5 mm aluminum box, protector bit (single) as necessary protector bit (double) in/c all accessories for all floors etc. all complete and as per drawing and direction of the E-I-C.	sqm	3,081.84
5.11.21	Taking off any type of Aluminum door and window frames & shutter i/c fixed partitions sections and glass without any damages for reuse (as per possible) by any means including selecting, storing and stacking properly in measurable stacks after carrying those to a safe distance or preselected place, etc. all complete as per direction of the E-I-C.	sqm	116.69
5.11.22	Re-fixing work of Aluminum partition by the existing same partition materials as per requirement and proper alignment in/c cutting in proper size and cost of supply of new neoprene, sealant for all floor etc. complete in all respect as per drawing and direction of the E-I-C.	sqm	492.67
5.11.23	Supplying, fitting & fixing door lock & key heavy duty for Aluminum swing door shutter i/c necessary accessories best quality etc. all complete as per direction of the E-I-C.	each	1,023.14
5.11.24	Supplying, fitting & fixing swing door bottom lock & key heavy duty for tempered glass swing door shutter i/c necessary accessories best quality etc. all complete as per direction of the E-I-C.	each	1,087.89
5.11.25	Supplying, fitting & fixing door closer heavy duty for Aluminum swing door shutter i/c necessary accessories best quality etc. all complete as per direction of the E-I-C.	each	4,290.02
5.11.26	Supplying, fitting & fixing door lock with key for Aluminum sliding door shutter of heavy duty best quality etc. all complete as per direction of the E-I-C.	each	207.22
5.11.27	Supplying, fitting & fixing Aluminum sliding window lock of heavy duty of best quality etc. all complete as per direction of the E-I-C.	each	148.94

Section-12: Cement Plaster, Pointing Works, Lime Terracing, Roof Tiles & Concrete Screed

5.12.01	Minimum 12mm thick cement plaster (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) to dado, plinth wall up to 150mm below ground level, water tank or any where directed with neat cement finishing in/c washing of sand, racking out joint and picking up cement mortar i/c finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the E-I-C.	sqm	316.37
5.12.02	Minimum 12mm thick cement plaster (1:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) to wall both inner and outer surface, finishing the corner and edges in/c washing of sand cleaning the surface, scaffolding and curing for the requisite period etc. all complete as per direction of the E-I-C.		
5.12.02.01	Ground floor	sqm	275.52

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.12.02.02	Add for each additional floor for 5th floor	sqm	Add +2.00% with Item No 5.12.02.01
5.12.02.03	Add for each additional floor for 6th floor and above	sqm	Add +4.00% with Item No 5.12.02.01
5.12.03	Minimum 6mm thick cement plaster (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) to ceiling RCC columns, beams, surface of stair case, sunshades, cornices, railings, drop wall, louvers, fins and finishing the corners and edges in/c washing of sand cleaning the surface, scaffolding and curing for the requisite period etc. all complete as per direction of the E-I-C.		
5.12.03.01	Ground Floor	sqm	254.07
5.12.03.02	Add for each additional floor upto 5th floor	sqm	Add +3.57% with Item No 5.12.03.01
5.12.03.03	Add for each additional floor for 6th floor and above	sqm	Add +5.36% with Item No 5.12.03.01
5.12.04	Taking off defective cement plaster from walls, ceilings, beams, floors or wherever required in/c taking out joints cleaning the surface and removing the debris to a pre-selected place etc. all completed as per direction of the E-I-C.	sqm	131.56
5.12.05	Providing black board (3.66mx1.22m/2.44mx1.22mm or directed size) made of 12mm thick cement sand plaster of proportion (1:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) on walls finished smooth with cement grouting mixed with black oxide board paint over the cement finishing etc. all complete as per direction of the E-I-C.	sqm	389.38
5.12.06	Flush pointing to brick wall with cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) in/c raking out the joints and necessary scaffolding, curing for the requisite period etc. all complete as per direction of the E-I-C.		
5.12.06.01	Ground floor	sqm	186.61
5.12.06.02	Add for each additional floor up to 5th floor	sqm	Add +5.00% with Item No 5.12.06.01
5.12.06.03	Add for 6th floor and above	sqm	Add +7.70% with Item No 5.12.06.01
5.12.07	Flush pointing to CC Block laying for Pavement works with cement concrete mortar (1:2:4)) with Portland Composite cement (CEM II/AM, 42.5N, best quality sand (minimum FM1.2) and 10mm down well graded picked brick chips in/c raking out the joints and curing for the requisite period etc. all complete as per direction of the E-I-C.	sqm	105.56
5.12.08	Rule pointing to brick wall with cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) and raking out the joints, scaffolding, curing for the requisite period etc. all complete as per direction of the E-I-C.		
5.12.08.01	Ground floor	sqm	237.35
5.12.08.02	Add for each additional floor upto 5th floor	sqm	Add +4.00% with Item No 5.12.08.01
5.12.08.03	Add for 6th floor and above	sqm	Add +6.00% with Item No 5.12.08.01
5.12.09	Raised/tack pointing to brick wall with cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) with minimum size (12mmx20mm) in/c raking out the joints, 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 as per direction of the E-I-C.		
5.12.09.01	Ground floor	sqm	463.66
5.12.09.02	Add for each additional floor up to 5th floor	sqm	Add +1.70% with Item No 5.12.09.01
5.12.09.03	Add for 6th floor and above	sqm	Add +2.50% with Item No 5.12.09.01
5.12.10	Providing drip course/nosing/throating at the edge of sunshade or cornice with cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) in/c scaffolding, curing at least for 7 days etc. all complete for all floors as per direction of the E-I-C .	m	159.23
5.12.11	Pre-cast ventilators (25mm thick) of any design with cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), fitted and fixed in position, finished with cement plaster (1:6) in/c necessary scaffolding and curing for requisite period in all floors, etc. all complete as per direction of the E-I-C.	sqm	2,273.42

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1	2	3	4
5.12.12	Average 100mm thick finished lime terracing with 20mm down well graded 1st class brick chips (LAA value not exceeding 38), surki from 1st class bricks and slaked lime in the proportion 7:2:2 (brick chips:surki:lime) in/c preparation of the mix on the ground by making a suitable platform under proper cover, cutting the mix twice daily with lime water (1:10) at least for 7 days until the mix attains desirable consistency, laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoady, neat finishing with lime mortar (1:2) (lime:surki), curing for 21 days and cleaning etc. all complete as per direction of the E-I-C (Stone lime to be brought at site 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).	cum	21,084.42
5.12.13	Supplying, fitting, fixing approved best quality locally made clay roof tiles & ridge of various size or any other appropriate factory size, irrespective of color & design, water absorption capacity <6%, laid on 20mm thick cement sand mortar (1:2) base with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2), over inclined RCC roof slab and making the joints carefully in true straight line, racking out joints and filling with same mortar, cleaning, laying the tiles properly, finishing with care, necessary scaffolding, curing etc. all complete as per drawing, direction of the E-I-C. (Padlo is also be used in mortar)		
5.12.13.01	Roof Tiles of 200mmx200mm size (MCW, KCL-RF2 or equivalent size and best approved quality), Red colour	sqm	3,294.32
5.12.13.02	Roof Tiles of 125x170mm size (MCW, KCL-RF1 or equivalent size and best approved quality), Red colour	sqm	3,441.10
5.12.13.03	Roof Tiles of 265x270mm size (MCW, KCL-RF3 or equivalent size and best approved quality), Red colour	sqm	3,246.26
5.12.13.04	Roof Tiles of 125x170mm size (MCW, KCL-RF1 or equivalent size and best approved quality), Beige colour	sqm	3,635.95
5.12.13.05	Roof Tiles of 200x200mm size (MCW, KCL-RF5 or equivalent size and best approved quality), Red colour	sqm	3,320.95
5.12.13.06	Roof Tiles of 200x200mm size (MCW, KCL-RF5 or equivalent size and best approved quality), Beige colour	sqm	3,499.88
5.12.13.07	Roof Tiles Ridge of 200x100mm size (MCW, KCL-RF6 or equivalent size and best approved quality), Beige colour.	sqm	1,205.58
5.12.13.08	Roof Tiles of 418x330mmx17mm size or equivalent size and best approved quality in Red or approved colour.	sqm	1,914.83
5.12.13.09	Roof Tiles Ridge of 425x245mmx15mm size or equivalent size and best approved quality in Red or approved colour.	sqm	1,499.11
5.12.14	20 mm thick water-proofing work in masonry or on concrete surface with sand (FM - 1.2) and Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N) mortar mixed with specified admixture (supplied from authorized local agent or from manufacturer comply with ASTM/BS/IS requirements, confirming current compliance of the admixture to specification requirements like physical properties, uniformity and equivalence in composition, performance requirements, delivered in sealed containers having and confirming plainly marked the proprietary name of the admixture type under this specification, net weight and or volume, manufacturing and expiry date, shelf life, non aggressiveness to environment and metals in concrete etc.) under the strict accordance with manufacturer recommendations / instructions and providing safety provisions in all respect etc. on sound, firm surfaces all complete including cleaning the surface from dust, loose particles, remains of oil, grease etc. all complete approved and accepted by the Engineer. {Portland Composite Cement (CEM II/A-M, 42.5N)}	sqm	716.42
5.12.15	38mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.8) and 10mm down graded crushed 1st class brick chips/picked chips, (LAA value not exceeding 38), including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	681.08
5.12.16	38mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.8) and 6mm down well graded crushed stone chips broken from boulder (LAA value not exceeding 30), including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	758.00

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1	2	3	4
5.12.17	44mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with 10mm down graded crushed 1st class brick chips/picked chips, (LAA value not exceeding 38), cement and sand (minimum FM 1.8) including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	722.32
5.12.18	44mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM 2.5) and 12mm down well graded crushed stone chips broken from boulder (LAA value not exceeding 33), including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	884.13
5.12.19	50mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM 1.8) and 10mm down graded crushed 1st class brick chips/picked chips, (LAA value not exceeding 38), including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	776.96
5.12.20	50mm thick on an average roof top cement concrete screed in proportion (1:1.5:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM 2.5) and 12mm down well graded crushed stone chips broken from boulder (LAA value not exceeding 30), including Cement grouting, mixing concrete, laying with neat cement finishing on the following day of roof slab casting, cost of all materials, labour and transportation to the site, finishing the edges and corners, curing for the requisite period etc. all complete as per drawing, specification and direction of the E-I-C	sqm	962.78
5.12.21	Supplying and laying of approved colour and size of best quality locally made ceramic wall tiles of various size or any other appropriate factory size irrespective of color & design, water absorption capacity <6%, laid on 20mm thick cement sand mortar (1:3) base with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2) on wall and making the joints carefully in true straight line, racking out joints and filling with same mortar, cleaning, laying the tiles properly, finishing with care, necessary scaffolding, curing etc. all complete as per drawing, direction of the E-I-C.		
5.12.21.01	200mmx62mmx16mm size Wall Tiles Red colour (MCW Design No-CT-5, SL-7 or equivalent best quality)	sqm	2,632.06
5.12.21.02	200mmx62mmx12mm size Wall Tiles Peach colour (MCW Design No-DT-5, SL-7 or equivalent best quality)	sqm	4,315.06
5.12.21.03	200mmx62mmx12mm size Wall Tiles Beige colour (MCW Design No-DT-5, SL-7 or equivalent best quality)	sqm	2,872.49
5.12.21.04	231mmx69mmx12mm size Wall Tiles Red colour (MCW Design No-DT-16, SL-7 or equivalent best quality)	sqm	2,819.91
5.12.21.05	231mmx69mmx12mm size Wall Tiles Grey colour (MCW Design No-DT-16, SL-7 or equivalent best quality)	sqm	3,160.36
5.12.21.06	231mmx69mmx12mm size Wall Tiles Beige colour (MCW Design No-DT-16, SL-7 or equivalent best quality)	sqm	2,971.22
5.12.21.07	200mmx62mmx16mm size Wall Tiles Red colour (MCW Design No-DT-5, SL-07B or equivalent best quality)	sqm	2,632.06
5.12.21.08	225mmx100mmx16mm size Wall Tiles Red colour (MCW Design No-DT-5, SL-07B or equivalent best quality)	sqm	2,468.57
5.12.22	Plaster rule pointing works 250mmx75mm size as brick shape by 10mmx10mm grove on outside wall over minimum 12mm thick cement plaster (1:6) with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2), finishing the corners and edges including washing of sand, cleaning the surface, scaffolding and curing for requisite period etc. all complete as per drawing and direction of the E-I-C.	sqm	342.64
5.12.23	Making groove in plaster on outside wall of various wide and depth i/c finishing the corners and edges including washing of sand, cleaning the surface, scaffolding and curing for requisite period etc. all complete as per drawing and direction of the E-I-C (excluding the cost of cement plaster).		
5.12.23.01	Groove in plaster 50mm X 6mm size	m	31.91

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1	2	3	4
5.12.23.02	Groove in plaster 40mm X 6mm size	m	37.99
5.12.23.03	Groove in plaster 25mm X 6mm size	m	34.95
5.12.25	Inscribing (writing) the name plate with some selected information like as name of School/ Organisation, year of construction, project, implementing agency, location (Upazila, District or any other selected information) in front of Building or where select by the authority with Sand cement mortar (2:1) of Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) in Bengali letters of standard size and fonts which 12mm thick raised over 12mm thick cement plaster surface, including finishing the corner and edges, washing of sand, cleaning the surface, scaffolding and curing for the requisite period and Painting two coats of weather coating over a coat of priming of approved best quality paint and colour etc. all complete as accepted by the Engineer-in-charge.	sqm	1,245.20

Section-13: Patent Stone Flooring

5.13.01	25mm thick artificial patent stone floor (1:2:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.8) and 10mm down well graded picked brick chips (LAA value not exceeding 38) in/c breaking graded picked chips, screening, mixing, laying the concrete in alternate panels, compacting and finishing the top with neat cement, curing, etc. all complete as per direction of the E-I-C.	sqm	417.80
5.13.02	38mm thick artificial patent stone floor (1:2:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.8) and 10mm down graded picked brick chips (LAA value not exceeding 38) in/c breaking chips, screening, mixing, laying the concrete in alternate panels, compacting and finishing the top with neat cement, curing for requisite period, etc. all complete as per direction of the E-I-C.	sqm	610.90
5.13.03	25mm thick patent stone floor (1:2:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.8) and 10mm down well graded crushed stone chips (Preferably stone chips from Madhyapara, Dinajpur) (LAA value not exceeding 35), in/c chips screening, mixing, laying the concrete in alternate panels, compacting and finishing the top with neat cement, curing for requisite period, etc. all complete as per direction of the E-I-C.	sqm	479.92
5.13.04	38mm thick patent stone floor (1:2:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM1.8) and 10mm down well graded crushed stone chips (Preferably stone chips from Madhyapara, Dinajpur) (LAA value not exceeding 35), in/c chips screening, mixing, laying the concrete in alternate panels, compacting and finishing the top with neat cement, curing for requisite period, etc. all complete as per direction of the E-I-C.	sqm	691.92

Section-14: Mosaic Works

5.14.01	Finished cast-in-situ mosaic work with one part of 10mm machine crushed well graded dust free and properly washed Pakistani origin marble chips and one part of mixture containing best quality white cement and Portland Composite gray cement (CEM II/AM, 42.5N) in proportion 9:1 in/c preparation of mixture and laying the same over minimum 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone, auxalic acid etc. in/c breaking chips, screening, washing mosaic chips, etc. all complete as per direction of the E-I-C.		
5.14.01.01	10mm thick finished and laying thickness 12.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,432.77
5.14.01.02	12mm thick finished and laying thickness 14.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,567.16
5.14.01.03	10mm thick finished and laying thickness 12.50mm on wall laying on 12mm thick cement plaster (1:4) with other specifications stated under Item No. 5.12.01 instead of artificial patent stone floor. (Excluding the cost of cement plaster).	sqm	1,790.67
5.14.02	Finished cast-in-situ mosaic work with one part of 10mm machine crushed well graded dust free and properly washed Indian origin marble chips and one part of mixture containing best quality white cement and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 9:1 in/c preparation of mixture and laying the same over minimum 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone, auxalic acid etc. in/c breaking chips, screening, washing mosaic chips, etc. all complete as per direction of the E-I-C.		
5.14.02.01	10mm thick finished and laying thickness 12.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,349.43

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1	2	3	4
5.14.02.02	12mm thick finished and laying thickness 12.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,467.78
5.14.02.03	10mm thick on wall laying on 12mm thick cement plaster (1:4) with other specifications stated under Item No. 5.12.01 instead of artificial patent stone floor. (Excluding the cost of cement plaster).	sqm	1,707.97
5.14.03	Finished cast-in-situ mosaic work with one part of 10mm machine crushed well graded dust free and properly washed Pakistani origin marble chips and one part of mixture containing best quality white cement and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 9:1 in/c preparation of mixture and laying the same over minimum 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone, auxalic acid etc. in/c breaking chips, screening, washing mosaic chips, etc. all complete as per direction of the E-I-C.		
5.14.03.01	10mm thick finished and laying thickness 12.50mm in floor without glass divider (Excluding the cost of artificial patent stone floor)	sqm	1,355.53
5.14.03.02	12mm thick finished and laying thickness 14.50mm in floor without glass divider (Excluding the cost of artificial patent stone floor)	sqm	1,489.91
5.14.04	Finished cast-in-situ mosaic work with one part of 10mm machine crushed well graded dust free and properly washed Indian origin marble chips and one part of mixture containing best quality white cement and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 9:1 in/c preparation of mixture and laying the same over minimum 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone, auxalic acid etc. in/c breaking chips, screening, washing mosaic chips, etc. all complete as per direction of the E-I-C.		
5.14.04.01	10mm thick finished and laying thickness 12.50mm in floor without glass divider (Excluding the cost of artificial patent stone floor)	sqm	1,272.18
5.14.04.02	12mm thick finished and laying thickness 14.50mm in floor without glass divider (Excluding the cost of artificial patent stone floor)	sqm	1,390.54
5.14.05	Finished silver gray situ mosaic works with one part of 10mm machine crushed well graded, dust free and properly washed Pakistani origin marble chips and one part of mixture containing white cement (Malaysia/Thailand/ India) and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 1:1 in/c preparation of mix and laying the same over 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (#40, #80, #120) in/c finishing with Minar stone, auxalic acid etc. in/c breaking brick chips, screening, washing mosaic chips, etc. all complete in all respects and as per direction of the E-I-C.		
5.14.05.01	10mm thick finished and laying thickness 12.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,334.01
5.14.05.02	12mm thick finished and laying thickness 14.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,458.39
5.14.05.03	10mm thick finished and laying thickness 12.50mm on wall laying on 12mm thick cement plaster (1:4) with other specifications stated under Item No. 5.12.01 instead of artificial patent stone floor. (Excluding the cost of cement plaster).	sqm	1,704.73
5.14.06	Finished silver gray situ mosaic works with one part of 10mm machine crushed well graded, dust free and properly washed Indian origin marble chips and one part of mixture containing white cement (Malaysia/ Thailand/India) and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 1:1 in/c preparation of mix and laying the same over 25mm thick artificial patent stone floor in proportion (1:2:4) with other specifications stated under Item No. 5.13.03 in/c making suitable panel, compacting, curing at least 7 days, cutting by mosaic cutter machine with pumice stone (# 40, # 80, # 120) in/c finishing with Minar stone, auxalic acid etc. in/c breaking brick chips, screening, washing mosaic chips, etc. all complete in all respects and as per direction of the E-I-C.		
5.14.06.01	10mm thick finished and laying thickness 12.50mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,181.55
5.14.06.02	12mm thick finished and laying thickness 1450mm in floor with panel by 5mm thick and 20mm deep glass dividers (Excluding the cost of artificial patent stone floor)	sqm	1,289.26

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5.14.06.03	10mm thick finished and laying thickness 12.50mm on wall laying on 12mm thick cement plaster (1:4) with other specifications stated under Item No. 5.12.01 instead of artificial patent stone floor. (Excluding the cost of cement plaster).	sqm	1,622.03

Section-15: Clayed Tiles & Marbles Stone Works

5.15.01	200mmx200mmx20mm mosaic terrazzo tiles flooring having 10mm thick finished mosaic top with one part of 10mm machine crushed well graded, dust free and properly washed marble chips and one part of mixture containing white cement (made in Malaysia/ Thailand/India or equivalent best quality) and Portland Composite grey Cement (CEM II/A-M, 42.5N) in proportion 9:1 in/c preparation of mix, machine pressed on 12mm thick cement mortar base (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) in/c preparing the base, setting the tiles on 40mm thick cement slurry and lime and surki in proportion of (1:3), compacting, cutting with pumice stone (No. 40, No. 80, No. 120) and finishing with Minar stone, auxalic acid etc. in/c screening, washing mosaic chips and supply of all necessary materials, etc. complete in all respect and as per direction of the E-I-C.		
5.15.01.01	With Indian origin marble chips	sqm	2,143.14
5.15.01.02	With Pakistani origin marble chips	sqm	2,232.46
5.15.02	Supplying, fitting and fixing glazed wall tiles of different size irrespective of colour or design (Country made/ Foreign made of Prior approved best quality) on 20mm thick cement mortar (1:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.		
5.15.02.01	Glazed wall tiles less than or equivalent to 250mmx330mm in size of Prior approved best quality.	sqm	1,486.02
5.15.02.02	Glazed wall tiles more than 250mmx330mm and less than 250mmx400mm in size or equivalent Country made of Prior approved best quality.	sqm	1,624.48
5.15.02.03	Glazed wall tiles more than 250mmx400mm and less than 300mmx450mm in size or equivalent Country made of Prior approved best quality.	sqm	1,692.54
5.15.02.04	Glazed wall tiles more than 300mmx450mm and less than 300mmx500mm in size or equivalent Country made of Prior approved best quality.	sqm	1,775.91
5.15.02.05	Glazed wall tiles more than 300mmx500mm size or equivalent Country made of Prior approved best quality.	sqm	1,887.58
5.15.02.06	Glazed wall tiles of size 300 mm x 600 mm with matching floor tiles, décor and border of foreign (China or Asia equivalent) made	sqm	2,890.63
5.15.03	Supplying, fitting and fixing GP (Homogeneous) glazed floor tiles irrespective of colour or design (country made of Prior approved best quality) on 20mm thick cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.		
5.15.03.01	GP (Homogeneous) 300mmx300mm size glazed floor tiles of Prior approved best quality.	sqm	1,769.21
5.15.03.02	GP (Homogeneous) 400mmx400mm size glazed floor tiles of Prior approved best quality.	sqm	1,853.76
5.15.03.03	GP (Homogeneous) 600mmx600mm size glazed floor tiles of Prior approved best quality.	sqm	2,543.25
5.15.04	Supplying, fitting and fixing GP (Homogeneous) unglazed / Matt or rustic floor tiles irrespective of colour or design (country made / Foreign made of Prior approved best quality) on 20mm thick cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.		
5.15.04.01	GP (Homogeneous) 300mmx300mm size unglazed floor tiles of Prior approved best quality.	sqm	1,748.32
5.15.04.02	GP (Homogeneous) 400mmx400mm size unglazed floor tiles of Prior approved best quality.	sqm	1,872.50
5.15.04.03	Matt or rustic 600 mm x 600 mm size floor tiles of minimum 9.8 thick mm of foreign made (China/ Asian equivalent) made	sqm	3,214.79

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5.15.05	Supplying, fitting and fixing GP mirror polished floor tiles (Country made/ Foreign made of Prior approved best quality) on 20mm thick cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.		
5.15.05.01	GP (Mirror Polished) 300mmx300mm size floor tiles county made of Prior approved best quality.	sqm	1,865.79
5.15.05.02	GP (Mirror Polished) 400mmx400mm size floor tiles county made of Prior approved best quality.	sqm	2,141.74
5.15.05.03	GP (Mirror Polished) 500mmx500mm size floor tiles county made of Prior approved best quality.	sqm	2,228.52
5.15.05.04	GP (Mirror Polished) 600mmx600mm size floor tiles county made of Prior approved best quality.	sqm	2,417.69
5.15.05.05	GP (Mirror Polished) 800mmx800mm size floor tiles county made of Prior approved best quality.	sqm	2,510.63
5.15.05.06	GP (Mirror Polished) 600mmx900mm size floor tiles county made of Prior approved best quality.	sqm	2,818.37
5.15.05.07	Mirror polish 600 mm x 600 mm floor tiles foreign (China or Asia equivalent) made	sqm	2,728.61
5.15.05.08	Mirror polish 800 mm x 800 mm floor tiles foreign (China or Asia equivalent) made	sqm	3,062.01
5.15.06	Supplying, fitting and fixing floor (stair step) tiles (Country made/ Foreign made of Prior approved best quality) on 20mm thick cement mortar (1:2) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.	sqm	
5.15.06.01	GP 300 mm x 600 mm stair tiles (Bangladeshi RAK, Great Wall or Prior approved quality)	sqm	2,356.75
5.15.06.02	GP 305 mm x 305 mm stair tiles (Bangladeshi RAK, Great Wall or Prior approved quality)	sqm	2,155.54
5.15.06.03	Rustic or mat stair tiles (Bangladeshi RAK, Great Wall or Prior approved quality)	sqm	2,228.52
5.15.06.04	Rustic or mat stair tiles foreign (China or Asia equivalent) made	sqm	2,305.46
5.15.07	Supplying, fitting and fixing country made floor tiles/skirting of GP Homogenous, GP glazed Homogenous or GP un-glazed Homogenous or GP Mirror Polished or Prior approved best quality irrespective of colour or design, with adhesives of approved best quality in full thickness of tiles, filler/tiles grout of approved best quality in/c cutting, shaping and laying the tiles in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C.		
5.15.07.01	GP glazed (Homogenous) 300mmx300mm size floor tiles of Prior approved best quality	sqm	1,426.30
5.15.07.02	GP (Homogenous) 300mm x 300 mm glazed tiles on skirting of Prior approved best quality	sqm	1,549.74
5.15.07.03	GP glazed (Homogenous) floor tiles (400mm x 400 mm) of Prior approved best quality	sqm	1,552.96
5.15.07.04	GP (Homogenous) 400mm x 400 mm glazed tiles on skirting of Prior approved best quality	sqm	1,693.72
5.15.07.05	GP un-glazed (Homogenous) floor tiles (300mm x 300 mm) of Prior approved best quality	sqm	1,440.37
5.15.07.06	GP un-glazed (Homogenous) 300mm x 300 mm tiles on skirting of Prior approved best quality	sqm	1,564.52
5.15.07.07	GP un-glazed (Homogenous) floor tiles (400mm x 400 mm) of Prior approved best quality	sqm	1,567.03
5.15.07.08	GP un-glazed (Homogenous) 400mm x 400 mm tiles on skirting of Prior approved best quality	sqm	1,678.29
5.15.07.09	GP (Mirror Polished) floor tiles (300mm x 300 mm) of Prior approved best quality	sqm	1,454.45
5.15.07.10	GP (Mirror Polished) 300mm x 300 mm tiles on skirting	sqm	1,560.07
5.15.07.11	GP (Mirror Polished) floor tiles (400mm x 400 mm)	sqm	1,735.91
5.15.07.12	GP (Mirror Polished) 400mm x 400 mm tiles on skirting	sqm	1,855.61
5.15.07.13	GP (Mirror Polished) floor tiles (600mm x 600 mm)	sqm	2,017.38

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5.15.07.14	GP (Mirror Polished) 600mm x 600 mm tiles on skirting	sqm	2,151.15
5.15.07.15	GP (Mirror Polished) floor tiles (800mm x 800 mm)	sqm	2,674.59
5.15.07.16	GP (Mirror Polished) 800mm x 800 mm tiles on skirting	sqm	2,841.22
5.15.08	Picking-up old tiles, marble, mosaic, facing bricks etc. with cement mortar or cement plaster works in floor & walls without any damages the structure in/c. cleaning and removing the debris's to a safe distance etc. all complete as per direction of the E-I-C.	sqm	198.75
5.15.09	Labour Cost for making moulding in marble stone or Granite as per Architectural drawing including cutting, grinding, finishing, supplying necessary equipment etc. complete in all respect as per direction of the E-I-C.		
5.15.09.01	18 mm thick marble stone or Granite	m	462.09
5.15.09.02	16 mm thick marble stone or Granite	m	457.43
5.15.09.03	12 mm thick marble stone or Granite	m	374.09
5.15.09.04	10 mm thick marble stone or Granite	m	358.36
5.15.10	Marble stone flooring with Italian (CARRARA) or equivalent European country best quality black /white marble stone of approved quality, texture and size fixed over 25mm thick cement sand mortar (1:2) on floor with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) or over 12mm thick cement sand mortar (1:2) in wall with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) 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 and polishing the top by pumic stone and necessary auxiliary materials and water, electricity and other charges complete in all respect as per direction of the E-I-C.		
5.15.10.01	18 mm thick Marble stone flooring (Italian -CARRARA) or equivalent European country best quality		
5.15.10.01.1	For Ground Floor	sqm	8,108.90
5.15.10.01.2	Add for each additional floor up to 5 th floor	sqm	Add +5.00% with Item No 5.15.10.01.1
5.15.10.01.3	Add for each additional floor for 6th floor to 9th floor	sqm	Add +10.00% with Item No 5.15.10.01.1
5.15.10.01.4	Add for each additional floor for 10th floor and above	sqm	Add +14.00% with Item No 5.15.10.01.1
5.15.10.02	16 mm thick Marble stone flooring (Italian -CARRARA) or equivalent European country best quality		
5.15.10.02.1	For Ground Floor	sqm	7,530.45
5.15.10.02.2	Add for each addl. floor up to 5 th floor	sqm	Add +5.00% with Item No 5.15.10.02.1
5.15.10.02.3	Add for each addl. floor for 6th floor to 9th floor	sqm	Add +10.00% with Item No 5.15.10.02.1
5.15.10.02.4	Add for each addl. floor for 10th floor and above	sqm	Add +14.00% with Item No 5.15.10.02.1
5.15.10.03	14 mm thick Marble stone flooring (Italian -CARRARA) or equivalent European country best quality		
5.15.10.03.1	For Ground floor	sqm	7,469.72
5.15.10.03.2	Add for each addl. floor up to 5 th floor	sqm	Add +5.00% with Item No 5.15.10.03.1
5.15.10.03.3	Add for each addl. floor for 6th floor to 9th floor	sqm	Add +10.00% with Item No 5.15.10.03.1
5.15.10.03.4	Add for each addl. floor for 10th floor and above	sqm	Add +14.00% with Item No 5.15.10.03.1
5.15.10.04	12 mm thick Marble stone walling (Italian -CARRARA) or equivalent European country best quality		
5.15.10.04.1	For Ground Floor	sqm	7,072.64
5.15.10.04.2	Add for each addl. Floor up to 5 th floor	sqm	Add +5.00% with Item No 5.15.10.04.1
5.15.10.04.3	Add for each addl. floor for 6th floor to 9th floor	sqm	Add +10.00% with Item No 5.15.10.04.1
5.15.10.04.4	Add for each addl. floor for 10th floor and above	sqm	Add +14.00% with Item No 5.15.10.04.1

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5.15.10.05	10 mm thick Marble stone walling (Italian -CARRARA) or equivalent European country best quality		
5.15.10.05.1	For Ground Floor	sqm	5,301.74
5.15.10.05.2	Add for each addl. Floor up to 5 th floor	sqm	Add +5.00% with Item No 5.15.05.01
5.15.10.05.3	Add for each addl. floor for 6th floor to 9th floor	sqm	Add +10.00% with Item No 5.15.05.01
5.15.10.05.4	Add for each addl. floor for 10th floor and above	sqm	Add +14.00% with Item No 5.15.05.01
5.15.11	Marble stone flooring with Indian or equivalent Asian country best quality black /white marble stone of approved quality, texture and size fixed over 25mm thick cement sand mortar (1:2) on floor with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) or over 12mm thick cement sand mortar (1:2) in wall with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) 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, polishing the top by pumic stone and necessary auxiliary materials and water, electricity and other charges complete in all respect as per direction of the E-I-C.		
5.15.11.01	18 mm thick Marble stone flooring (Indian) or equivalent Asian country best quality		
5.15.11.01.1	For Ground Floor	sqm	6,478.79
5.15.11.01.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.11.01.1
5.15.11.01.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.11.01.1
5.15.11.01.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.11.01.1
5.15.11.02	16 mm thick Marble stone flooring (Indian) or equivalent Asian country best quality		
5.15.11.02.1	For Ground Floor	sqm	5,830.70
5.15.11.02.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.11.02.1
5.15.11.02.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.11.02.1
5.15.11.02.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.11.02.1
5.15.11.03	14 mm thick Marble stone flooring (Indian) or equivalent Asian country best quality		
5.15.11.03.1	For Ground Floor	sqm	5,452.46
5.15.11.03.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.11.03.1
5.15.11.03.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.11.03.1
5.15.11.03.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.11.03.1
5.15.11.04	12 mm thick Marble stone walling (Indian) or equivalent Asian country best quality		
5.15.11.04.1	For Ground Floor	sqm	5,126.55
5.15.11.04.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.11.04.1
5.15.11.04.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.11.04.1
5.15.11.04.4	Add for each additional floor for 10th Floor and above	sqm	Add +15.00% with Item No 5.15.11.04.1
5.15.11.05	10 mm thick Marble stone walling (Indian) or equivalent Asian country best quality		
5.15.11.05.1	For Ground Floor	sqm	4,262.19
5.15.11.05.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.11.05.1
5.15.11.05.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.11.05.1
5.15.11.05.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.11.05.1

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5.15.12	Supplying, fitting, fixing and Installation of Black Granite or approved colour on floor with Italian (CARRARA) or equivalent European country best quality Polished granite of approved quality, texture and size fixed over 25mm thick cement sand mortar (1:2) on floor with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) or over 12mm thick cement sand mortar (1:2) in wall with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) including placing cement slurry below the stone, cutting the granite 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 polishing the top by pumic stone and necessary auxiliary materials and water, electricity and other charges complete in all respect as per direction of the E-I-C.		
5.15.12.01	18 mm thick black or approved colour polished granite flooring (Italian -CARRARA) or equivalent European country best quality		
5.15.12.01.1	For Ground Floor	sqm	8,041.58
5.15.12.01.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.12.01.1
5.15.12.01.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.12.01.1
5.15.12.01.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.12.01.1
5.15.12.02	12 mm thick black or approved colour polished granite walling (Italian -CARRARA) or equivalent European country best quality		
5.15.12.02.1	For Ground Floor	sqm	6,909.95
5.15.12.02.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.12.02.1
5.15.12.02.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.12.02.1
5.15.12.02.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.12.02.1
5.15.13	Supplying, fitting, fixing and Installation of Black Granite or approved colour on wall of Indian or equivalent Asian country best quality Polished granite of approved quality, texture and size fixed over 25mm thick cement sand mortar (1:2) on floor with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) or over 12mm thick cement sand mortar (1:2) in wall with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) including placing cement slurry below the stone, cutting the granite 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 polishing the top by pumic stone and necessary auxiliary materials and water,		
5.15.13.01	18 mm thick black or approved colour polished granite Flooring of Indian or equivalent Asian country best quality		
5.15.13.01.1	For Ground Floor	sqm	6,599.01
5.15.13.01.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.13.01.1
5.15.13.01.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.13.01.1
5.15.13.01.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.13.01.1
5.15.13.02	12 mm thick black or approved colour polished granite walling of Indian or equivalent Asian country best quality		
5.15.13.02.1	For Ground Floor	sqm	5,126.55
5.15.13.02.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.13.02.1
5.15.13.02.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.13.02.1
5.15.13.02.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.13.02.1
5.15.13.03	10 mm thick black or approved colour polished granite walling of Indian or equivalent Asian country best quality		
5.15.13.03.1	For Ground Floor	sqm	4,176.86
5.15.13.03.2	Add for each additional floor up to 5th Floor	sqm	Add +5.00% with Item No 5.15.13.03.1
5.15.13.03.3	Add for each additional floor from 6th up to 9th Floor	sqm	Add +10.00% with Item No 5.15.13.03.1

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5.15.13.03.4	Add for each additional floor for 10th Floor and above	sqm	Add +14.00% with Item No 5.15.13.03.1
5.15.14	Supplying, fitting and fixing glazed ornamental wall tiles of different size irrespective of colour or design (country made Prior approved best quality) on 20mm thick cement mortar (1:3) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) base, raking out the joints and filling with white cement in/c cleaning the existing surface, cutting, shaping and laying the tiles in proper way, level and finishing with care of any floor, etc. all complete as per direction of the E-I-C.		
5.15.14.01	Ornamental Glazed wall tiles more than 400mmx2400mm (each set) or more than in size or equivalent of Prior approved best quality.	sqm	3,322.32
5.15.14.02	Décor tiles of any size or Prior approved best quality.	sqm	2,256.02
5.15.17	Marble stone laying in wall or brick masonry works with Indian or equivalent Asian country best quality white marble stone of approved quality, texture and size fixed over 25mm thick cement sand mortar (1:2) or 75mm thick cement concrete (1:3:6) with Portland Composite cement (CEM II/AM, 42.5N) and best quality sand (minimum FM1.2) including placing cement slurry below the stone, cutting the marble stone to desired size, grinding and finishing the edges, inscribing the necessary information in Bengali lettering i/c setting in position in proper level filling the gaps with white cement and colouring pigments including supplying all necessary equipments / materials and finishing, polishing the top by pumic stone and necessary auxiliary materials and water, electricity and other charges complete in all respect as per direction of the E-I-C.		
5.15.17.01	12 mm thick White Marble stone (Indian) or equivalent Asian country best quality	sqm	5,462.71
Section-16: Washing, Painting, Distempering, Polishing & Varnishing Works			
5.16.01.01	White washing three coats over a coat of priming with slacked stone lime mixed with gums, blue. Lime mix prepared at least 12 hours before use, in/c removing the floating materials from the mixture, surface cleaning to free 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing as if necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	29.39
5.16.01.02	White washing two coats with slacked stone lime mixed with gums, blue. Lime mix prepared at least 12 hours before use in/c removing the floating materials from the mixture, 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	21.10
5.16.01.03	White washing one coats with slacked stone lime mixed with gums, blue. Lime mix prepared at least 12 hours before use in/c removing the floating materials from the mixture, 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	10.55
5.16.02.01	Colour wash with yellow ochre in two coats over a prime coat of white wash. Lime mix prepared at least 12 hours before use in/c removing the floating materials from the mixture, 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	30.54
5.16.02.02	Colour wash with yellow ochre in one coats . Lime mix prepared at least 12 hours before use in/c removing the floating materials from the mixture, 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 i/c cost of hair brush, providing necessary scaffolding and necessary cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary before and after the wash, polishing the surface with sand paper etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	25.36

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5.16.03.01	Cement paint of approved quality and colour (Bangladesh made) from authorized manufacturer in a seal container, having highly water resistant, high bond ability, flexible in two coats 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	115.52
5.16.03.02	Cement paint of approved quality and colour (Bangladesh made) from authorized manufacturer in a seal container, having highly water resistant, high bond ability, flexible in two coats. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	83.49
5.16.03.03	Cement paint of approved quality and colour (Bangladesh made) from authorized manufacturer in a seal container, having highly water resistant, high bond ability, flexible in one coats. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	41.75
5.16.04.01	Distempering with ready mixed synthetic polyvinyl distemper from authorized manufacturer in a seal container, to wall and ceiling in two coats over a coat of primer/sealer. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	213.09
5.16.04.02	Distempering with ready mixed synthetic polyvinyl distemper from authorized manufacturer in a seal container, to wall and ceiling in two coats. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	102.34
5.16.04.03	Distempering with ready mixed synthetic polyvinyl distemper from authorized manufacturer in a seal container, to wall and ceiling in one coats. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	55.98
5.16.05.01	Painting with plastic emulsion paint of best quality and approved colour in a seal container from authorized manufacturer. Applying each coat and successive coat is to be applied as per manufacturer special procedure, to wall and ceiling in two coats over a coat of priming coat of water sealer and ready mixed putty of approved brand. It applied on sand papered and cleaned surface and after drying applied sealer coat, 2 coats of ready mixed wall putty of approved brand, each coat dried and smoothened by sand papering. Applying plastic emulsion paint 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	261.31
5.16.05.02	Painting with plastic emulsion paint of best quality and approved colour in a seal container from authorized manufacturer special procedure, to wall and ceiling in two coats. Applying plastic emulsion paint 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	133.87

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5.16.05.03	Painting with plastic emulsion paint of best quality and approved colour from authorized manufacturer in a seal container special procedure, to wall and ceiling in one coats 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	72.59
5.16.06	Painting with acrylic emulsion paint (silky finish) of best quality and approved colour from authorized manufacturer in a seal container, to wall and ceiling in two coats over a coat of acrylic sealer 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. curing for the requisite period etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	242.27
5.16.07	Painting with Jenson chlorinated rubber paint of best quality and approved colour from authorized manufacturer in a seal container, to walls in three coats in/c finishing with sand paper, cleaning the old surface with soap water/caustic soda or sand paper as per requirement before application etc. complete in all respects as per direction of the E-I-C.	sqm	378.65
5.16.09	On exterior surface applying as per manufacturer instruction specific coat of weather coat of approved quality and colour delivered from authorized local agent of the manufacturer in a sealed container. 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.		
5.16.09.01	3 coat	sqm	277.82
5.16.09.02	2 coat	sqm	177.27
5.16.10.01	Painting to door and window frames, shutters and any type of MS rod, FI bar, MS box, MS angle grill, gate etc. in two coats with synthetic enamel paint of best quality and approved colour 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	245.69
5.16.10.02	Painting to door and window frames, shutters and any type of MS rod, FI bar, MS box, MS angle grill, gate etc. in two coats with synthetic enamel paint of best quality and approved colour. 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	130.98
5.16.10.03	Painting to door and window frames, shutters and any type of MS rod, FI bar, MS box, MS angle grill, gate etc. in one coats with synthetic enamel paint of best quality and approved colour. 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	70.39
5.16.10.04	Painting to dado, skirting, out side plinth wall from 6" below GL to plinth level with two coats of synthetic enamel paint of prior approved colour and brand 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	245.69
5.16.10.05	Painting to dado, skirting, out side plinth wall from 6" below GL to plinth level with two coats of synthetic enamel paint of prior approved colour and brand. 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	130.98
5.16.10.06	Painting to dado, skirting, out side plinth wall from 6" below GL to plinth level with one coat of synthetic enamel paint of prior approved colour and brand. 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	70.39

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5.16.11	Wood varnishing to door and window frames, shutters or any type of wood works in three coats with ready for use wood care varnishes applied with brush. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.		
5.16.11.01	Varnish (Yacht)	sqm	252.18
5.16.11.02	Varnish (Egg shell)	sqm	252.18
5.16.11.03	Varnish (Matt)	sqm	255.06
5.16.12.01	French polishing to door and window frames, shutters or any type of wood works in three coats 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 in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	312.55
5.16.12.02	French polishing to door and window frames, shutters or any type of wood works in two coats. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	204.03
5.16.12.03	French polishing to door and window frames, shutters or any type of wood works in one coats. Applying one vertical and one horizontal coat for each coat and successive coat is to be applied after drying up of previous coat in/c cleaning, washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	98.63
5.16.13	Painting with textured paint of best quality and approved colour from authorized manufacturer in a seal container, to internal and external surfaces in three layer system consisting of one coat sealer, one coat texture and two coats of top coat (glossy finishing) applied as per standard method/practice 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding, etc. surface smoothing by putty etc. all complete for all floors i/c cost of all materials as per direction of the E-I-C.	sqm	1,218.85
5.16.14	Scrapping out old polishing or varnishing to wooden door & window frames & shutter properly without any damages the surface by any means including cleaning the existing surface properly for polishing or varnishing and cost of sand paper and all other materials and labour etc. all complete as per direction of the E-I-C.	sqm	103.35
5.16.16	Providing lime chalk powder coating (three coats) to non plastered cement surfaces of ceiling, beams or wherever directed. Chalk powder mixed with Arabian gum properly, mixing applied as per standard method/ practice. 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 in/c cleaning the plinth, floors, doors, windows, portions and ventilators by washing, rubbing, as necessary and sand papering the surface and necessary scaffolding etc. all complete as per directions of the E-I-C.	sqm	60.42
5.16.18	Cleaning, polishing & shining of brass post, plate & tub properly with cleaning agent liquid brass cleaner. After cleaning the surface to give polishing and shining using chalk powder and cut piece cloth manually without any damages etc. all complete as per direction of the E-I-C.	sqm	210.23
5.16.19	Cleaning & polishing of mosaic work by mosaic cutter machine with pumice stone no. 80, 120, 320, yellow & jhama stone, white jute mat, spread white cement & oxalic acid using several step as follows: 1st step- cutting the existing mosaic surface using mosaic cutter machine with pumice stone no. 80 and spread white cement slurry or grouting this surface after cleaning the surface, curing at least three days. 2nd step- cutting the existing mosaic surface using mosaic cutter machine with pumice stone no. 120 and spread white cement slurry or grouting this surface after cleaning the surface, curing at least three days. 3rd step- cutting the existing mosaic surface using mosaic cutter machine with pumice stone no. 320, yellow & jhama stone and spread oxalic acid this surface after cleaning the surface, Finally use Solvent Paste Wax mixed with GP thinner and polishing by white jute mat in/c. supply of materials & labour as per direction of the E-I-C.	sqm	733.04

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Item Code	Brief Description of Item	Unit	Rate
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5.16.20	Cleaning & polishing of marble floor work by mosaic or marble cutter machine with pumice stone no. 80, 120, 320, yellow & jhama stone, white jute mat, spread white cement & oxalic acid using several step as follows: 1st step- cutting the existing marble surface using marble cutter machine with pumice stone no. 80 and spread white cement slurry or grouting this surface after cleaning the surface, curing at least three days. 2nd step- cutting the existing marble surface using marble cutter machine with pumice stone no. 120 and spread white cement slurry or grouting this surface after cleaning the surface, curing at least three days. 3rd step- cutting the existing marble surface using marble cutter machine with pumice stone no. 320, yellow & jhama stone and spread oxalic acid this surface after cleaning the surface, Finally use Solvent Paste Wax mixed with GP thinner and polishing by white jute mat in/c. supply of materials & labour as per direction of the E-I-C.	sqm	1,034.08
5.16.21	Washing and clening of existing mosaic, tiles, marble, granite etc flooring or walling of office, dormitory, residential quarter or any other required corridor, room, stair, plinth, verandah, lobby etc. using cleaning agent like Vim powder, Harpic powder, Vim liquid, Trix or equivalent country made cleaning agents etc. properly mixing with clean and fresh water and spreading this mixture on existing floor or wall surface manually and providing nylon or plastic brush or soft moph and cotton mat or cloth with rubbing or cleaning, washing etc. all complete for all floors i/c cost of all materials and labour as per direction of the E-I-C.		
5.16.21.01	Existing old surface cleaning (Special use only)	sqm	63.20
5.16.21.02	Regular cleaning	sqm	41.39

Section-17: False Ceiling, Wall Paneling

5.17.01	Supplying, fitting and fixing 12mm thick plain particle board in ceiling with best quality and well seasoned Garjan wood frame of section 75mmx38mm at 600mmx600mm in grid, suspended from ceiling/ roof or beam by 12 SWG double ply GI wire fixed to the ceiling by rowel plug, screws, hooks, nails etc. maintaining straight lines and desired finished level at bottom face with vertical strut as required in/c cutting holes in slabs or beams by electric drill machine and mending good the damages, if any, during execution of the work, installation, scaffolding, screws, nails etc. in/c, painting 2 coats over a coat of priming with synthetic enamel paint of best quality and approved colour etc, all complete as per drawing, design and direction of the E-I-C. (All sizes of wood are finished).		
5.17.01.01	For Ceiling height upto 4m	sqm	2,710.95
5.17.01.02	For Auditorium and other type of all structures beyond 4m up to 8m.	sqm	2,962.51
5.17.02	Supplying, fitting and fixing 12mm thick gypsum/veneered board laminated by mechanical hot press with a milk white PVC membrane with aluminium 'T' bar frame in natural anodized finish at 600mmx600mm in grid, suspended from ceiling by 12 SWG double ply GI wire fixed to the ceiling by rowel plug, screws, hooks, nails etc. maintaining straight lines and desired finished level at bottom face with vertical strut as required in/c making holes in slabs, or beams by electric drill machine and mending good the damages, if any, during execution of the work in/c scaffolding, installation, screws, nails etc. all complete as per drawing, design and direction of the E-I-C.		
5.17.02.01	For 12mm thick Gypsum board.	sqm	2,101.88
5.17.02.02	For 12mm thick Veneered board	sqm	2,532.92
5.17.03	Supplying, fitting and fixing 12mm thick Burma Teak Veneered/Particle board in walling with best quality, well seasoned Garjan wood frame of section 75mmx38mm at 600mmx600mm in grid, fitted and fixed to wall by plugs, nails, screws etc. in/c, treatment of inner surface with termite & damp proofing agent, maintaining leveled and finished exposed faces in/c, making holes in wall and mending good the damages, if any, during execution of the work in/c installation, scaffolding, screws, nails etc. in/c. French polishing 3 coats over a coat of priming etc. all complete as per design, approved sample and direction of the E-I-C.		
5.17.03.01	For 12mm thick Burma Teak Veneered board	sqm	3,509.72
5.17.03.02	For 12mm thick particle board	sqm	2,710.95
5.17.04	Supplying, fitting and fixing of false ceiling (600mmx600mm or 600mmx 1200mm grid/ section divided as per perior approval with cross Tee) with 8 mm thick melamine board laminated by mechanical hot press with a milk white PVC membrane with aluminum frame suspended from ceiling, beam etc. by double ply 12 SWG GI twisted wire maintaining straight lines and desired finished level at bottom face in/c cutting holes in slabs or beams by electric drill machine and mending good the damages, if any, during execution of the work, installation, scaffolding, screws, nails etc. i/c cost of aluminum frame, royal plug, etc. all complete as per drawing, design and direction of E-I-C.		

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5.17.04.01	600mmx600mm grid/section	sqm	1,880.15
5.17.04.02	600mmx1200mm grid/section	sqm	1,753.27
5.17.05	Supplying, fitting and fixing of 9 mm thick perforated gypsum board false ceiling with aluminum T bar frame in natural anodized frame at 600 mm x 600 mm grid suspended from ceiling, beam etc. by double ply 12 SWG GI twisted wire maintaining straight lines and desired finished level at bottom face in/c cutting holes in slabs or beams by electric drill machine and mending good the damages, if any, during execution of the work, installation, scaffolding, screws, nails etc. i/c cost of aluminum frame, royal plug, etc. all complete as per drawing, design and direction of E-I-C.	sqm	1,260.81
5.17.06	Supplying, fitting, fixing false ceiling with 6 mm thick plastic wood sheet, weighing 0.358 kg/sft fitted with aluminum T bar frame in natural anodized at 600mmx600mm/600mmx1200mm grid as per prior approval suspended from ceiling, beam etc. by double ply 12 SWG GI twisted wire maintaining straight lines and desired finished level at bottom face in/c cutting holes in slabs or beams by electric drill machine and mending good the damages, if any, during execution of the work, installation, scaffolding, screws, nails etc. i/c cost of aluminum frame, royal plug, etc. all complete as per drawing, design and direction of E-I-C.		
5.17.06.01	600mmx600mm grid	sqm	1,437.76
5.17.06.02	600mmx1200mm grid	sqm	1,318.57
5.17.07	Supplying fitting and fixing of plastic wall paneling with 3 mm thick plastic wood of best quality sheet, weighing 0.188 kg/sft fitted with vertical post of partition frame and mending good the damages, carriage to the site including 5mm thick glass head, partition frame, rubber, 5 mm thick clear glass fitted and fixed with screws, steel clamp accepted and etc. all complete as per direction of the E-I-C.(excluding the cost of glass)	sqm	1,266.01
5.17.08	Supplying, fitting and fixing approved quality and size of approx. 190 mm x 190 mm size glass bricks of best quality fitted with white cement, filling the joints carefully in stair wall or any where directed i/c cost of scaffolding, all materials and labour etc. all complete in all respect as per direction of the E-I-C.	sqm	2,303.75

Section-18: Collapsible Gate, MS Gate & Rolling Shutter

5.18.01	Manufacturing, supplying, fitting and fixing collapsible gate made of 20mmx20mmx3mm/25mmx25mmx3mm MS angle placed @112mm c/c vertically and connecting the same with each other with 20mmx3mm/25mmx3mm MS flat bar scissors 525mm/600mm long provided in three rows in/c cutting the different MS members to required sizes, fabricating, welding, riveting with required size rivets, providing required size wheels, pulling handles on both sides, suitable looking arrangement and finally placing the same in position in between two nos. 50mmx50mmx6mm MS Tee rail made by welding two nos. 50mmx6mm MS flat bar fitted and fixed at top and bottom with R.C.C. lintel/roof slab, floors and side wall with required nos. 150mm to 225mm long 38mmx6mm MS flat bar clamps one end welded with the gate member and the other end bifurcated and embedded in Cement Concrete (1:2:4) in/c cutting holes and mending good the damages, painting two coats with approved synthetic enamel paint over a coat of anticorrosive painting etc. all complete as per drawing and design and direction of E-I-C.		
5.18.01.01	Collapsible gate made of 20mm x 20mm x 3mm M.S. angle as vertical member and 20mm x 3mm F.I bar as scissors.	sqm	4,753.63
5.18.01.02	Collapsible gate made of 25mm x 25mm x 3mm M.S. angle as vertical member and 25mm x 3mm F.I bar as scissors.	sqm	5,645.41
5.18.02	Supplying, fitting, fixing and installation of ordinary type MS gate (double leaf) with 38mmx38mmx6mm MS angle outer frame having 16mm dia MS rod placed vertically @75mm c/c. at bottom part and top part (arrows) and also placed horizontally at bottom for interconnection of 16mm dia MS rod placed vertically as per design, the top part covered with 18 BWG MS sheet and fixed with four nos. 38mmx6mm F.I. bars placed diagonally and four nos. 38mmx6mm F.I. bars placed horizontally and vertically all passing through the centre, providing locking arrangements on 3mm thick MS plate one for main gate and one for minimum 300mmx1025mm pocket gate with 38mmx38mmx6mm MS angle and 16mm dia MS rod placed vertically @75mm c/c. providing 38mmx38mmx6mm MS angle clamps fitted and fixed with the outer frame of the main gate, the clamp being embedded in R.C.C. or masonry pillars with Cement Concrete (1:2:4) in/c. cutting holes and mending good the damages etc. in/c. 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 direction of the E-I-C.	sqm	6,034.47

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5.18.03	Supplying, fitting, fixing and installation of ordinary type MS gate (double leaf) with 38mmx38mmx6mm MS angle frame, top and bottom parts provided with 25mmx6mm F.I. bar placed vertically @150mm c/c and the middle part covered with 18 BWG MS sheet and fixed with four nos. 38mmx6mm F.I. bar placed diagonally and four nos. 38mmx6mm F.I. bars placed horizontally and vertically, all passing through the center as design in/c locking arrangement on 3mm thick MS plate providing 38mmx38mmx6mm MS angle clamps fitting and fixed with the outer frame of the gate, the clamp be embedded in the R.C.C. or masonry pillars with Cement Concrete (1:2:4) in/c. cutting holes and mending good the damages in/c. riveting, welding as and where necessary, painting two coats of synthetic enamel paint over a coat of anti-corrosive paint etc. all complete as per drawing, design and direction of the E-I-C.	sqm	4,958.20
5.18.04	Manufacturing, supplying, fitting and fixing GI pipe gate having 38mm dia of 2.9mm wall thickness GI pipe outer frame and 19~20mm dia of 2.35~2.3mm wall thickness GI pipe vertical member placed @75mm c/c by welding at top and bottom of GI pipe frame, cutting the pipes in proper shape and size in/c making semicircular band at corners of the outer frame without damaging the pipe, providing six nos. huskle dummy with R.C.C. or brick pillar with Cement Concrete (1:2:4) in/c making provision for minimum 0.61mx1.4m pocket gate having its outer frame and inner vertical members made with 19~20mm dia of 2.35~2.3mm wall thickness GI pipe in/c necessary locking arrangements, painting the gate with two coats of synthetic enamel paint over a coat of anti-corrosive priming, welding as and where necessary in/c necessary locking arrangement and providing two nos. 16mm MS socket bolts etc. all complete as per design and drawing and as per direction of the E-I-C.	sqm	8,469.04
5.18.05	Supplying, fitting and fixing of rolling shutter made of 24 SWG G.P. sheet unit minimum 69mm width having 10mm & 12mm 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 22 BWG sheet, containing best quality spring made in China, nutted with 38mm GI pipe at one end and the other end nutted to shutter in/c fitting the GI pipe again with 375mmx300mmx6mm punkha at ends with side guide channel (side channel consist of 50mmx100mmx6mm MS plate with 2x19mmx3mm F.I. bar, middle channel consist of 2x150mmx6mm MS plate with 2x19mmx6mm) fixed to wall or column with MS clamps (minimum 3x25mmx6mm), mending the damages, bottom end of shutter fitted to folded G.P. sheet (minimum 125mm width, two layer) which is again fitted to 25mmx25mmx3mm angle, providing handle both sides, (with F.I. bar 25mmx6mm riveted) and locking arrangement both sides, painting two coats with approved colour and brand of synthetic enamel paint over a coat of priming etc. complete in all respect as per drawing, design and as per direction of the E-I-C. (Rolling shutter must be riveted at sides with G.P. sheet and patty).	sqm	6,528.81
5.18.06	Supplying, fitting and fixing boundary wall grill or anywhere directed made of 12mmx12mm MS square bar horizontally @ 50mm c/c fixing with outer four side 25mmx25mm MS square box and inside 12mmx12mm MS square bar vertically @ 450mm c/c fixed with boundary column and RCC Lintel by 25mmx25mmx150mm MS Box clamp (minimum 7 nos) i/c cost of all materials and labour, fabricating, cutting, bending, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with cement concrete (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	5,294.83
5.18.07	Supplying, fitting and fixing two part (double leaf) heavy type Main entrance gate (Swing type) in boundary wall or anywhere directed made of 12mmx12mm MS square solid bar series horizontally @ 50mm c/c (1/3rd of total height as per drawing) fixing with outer frame of 50mmx50mmx5mm MS Angle (2nos welded) box and 1no in horizontally in bottom 1/3rd height in top and 40mmx20mmx5mm MS angle box vertically fixed with outer angle box and horizontal solid bar. In-between 1/3rd total height gap of solid bar series and bottom 1/3rd covered with stainless steel sheet (minimum 1.63mm thick) horizontally in both side with 12mmx12mm MS square solid bar as per drawing i/c locking arrangement on 3mm thick MS plate providing 50mmx50mmx5mm angle clamp fitting and fixed with outer angle box frame of the gate and embedded in the RCC or masonry pillar (minimum 6 nos) i/c cost of all materials and labour, fabricating, cutting, bending, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming of approved brand in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with cement concrete (1:2.4) etc. all complete as per design and direction of the E-I-C.	sqm	9,889.62

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1	2	3	4
5.18.08	Supplying, fitting and fixing of Swing gate of any standard size as per design having two equal shutter made of MS square Box outer frame 62mm x 150mm of 16 BWG MS sheet all around the shutter and the middle part of the shutter covered with 12mm x 12mm square MS bar horizontally @ 62.5mm centre to centre or 50mm clear gap welded with outer frame and 2 Nos 12mm x 12mm MS Square bar are welded Vertically on each shutter on equal distance. Each shutter shall have a 2mm thick 40mm dia SS hand Rail vertically fitted with the shutter and shall have suitable locking arrangement of equal height of verticle MS bar. Each shutter shall be fitted with minimum 3 nos hinge clamp made of 50mm x 5mm flat bar and 20mm MS rod; the end of the clamps should be bifurcated and embedded at least 75mm inside the R.C.C. post or brick pillars fixed with Cement Concrete (1:2:4) to fix the gate. Cost includes cost of MS plate, MS bar, SS rail, cutting holes, fitting the gate, cement concrete, mending good the damages, including Ms plates, Ms bars, making frame, welding, riveting as necessary, painting two coats of synthetic enamel paint over a coat of anti-corrosive priming etc. all complete as per drawing, design and direction of the E-I-C.	sqm	3,995.71
5.18.10	Supplying, fabricating, making, fitting and fixing of MS gate (Swing type) for boundry wall or main entrance or any where directed made of 12mmx12mm square solid bar horizontally @ 50mm c/c and vertically 0.5m c/c welded to outer frame 150mmx62.50mmx1.29mm MS box fitted with 50mmx50mmx6mm size, 250mm long MS angle clamps (minimum 6 nos and each one end bifurcated) being embedded in vertical members of the outside Boundary RCC /masonry pillar or wall, 02 nos 40mm dia Stainless Steel hand rail (minimum wall thickness 1.5mm) fitted at the middle end frame centre of the boundary gate, i/c cost of all materials and labour, fabricating, cutting, bending, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming of approved quality and colour in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with cement concrete (1:2:4) i/c finishing, curing etc. all complete as per design and direction of the E-I-C.	sqm	3,319.40

Section-19: Stair & Verandah Railing and Nosing

5.19.01	Manufacturing, supplying, fitting and fixing stair railing of any standard height with square box (vertically two nos. in each tread) made by thorough welding of two nos. 19mmx19mmx3mm MS angle in/c. providing wooden hand rail of 9675 sq.mm finished section, engraving each box 150mm in the concrete by 50mmx50mmx6mm anchor plate at base welding 38mmx6mm F.I. bar in inclined plain with the top of the box to fit in the grooved wooden rail by necessary screws in/c cutting grooves in concrete, mending good the damages with Cement Concrete (1:2:4) applying 1st class polish to hand rail, two coats of synthetic enamel paint of approved quality over a prime coat etc. finished in all respect for all floors as per direction of the E-I-C. (Exposed area of railing will be considered for measurement).		
5.19.01.01	With Chittagong Teak wooden hand rail	sqm	5,960.51
5.19.01.02	With Silkarai wooden hand rail	sqm	4,273.43
5.19.02	Manufacturing, supplying, fitting and fixing stair railing of standard height with square box (vertically 1 no. in each tread) made by thorough welding of 2 nos. 25mmx25mmx50mm MS angle in/c. providing wooden hand rail of 9375m2 finished section, engraving each box 150mm in the concrete by 50mmx50mmx6mm anchor plate as base, welding 50mmx6mm F.I. bar in inclined plain with the top of the box fit in the grooved wooden rail and two nos. 225mmx25mm finished section of wooden (Chittagong Teak) strip fitted and fixed at mid height of railing at both side of MS angle box in inclined, plain parallel to the hand rail etc. fitted and fixed by necessary screws, nails, in/c. cutting grooves in concrete mending good the damages with Cement Concrete (1:2:4) applying best quality French polish to wooden hand rail and inclined wooden strip and painting to F.I. bar and square box with two coats of synthetic enamel paint of approved quality over a prime coat etc. complete in all respect for all floors as per direction of the E-I-C. (Exposed area of railing to be considered for measurement). With Chittagong Teak wooden hand rail	sqm	8,378.59
5.19.03	Supplying, fitting and fixing 12~15mm dia of 2.35~2.3mm wall thickness GI pipe stair railing of any standard height with 50mmx50mmx6mm MS plate at the base of 12~15mm dia of 2.35~2.3mm wall thickness dia GI pipe and fitted and fixed by welding, placing the pipes vertically @125mm c/c (2 nos. in each steps) 150mm embedded into the R.C.C. step of stair case after cutting grooves and mending good the damages with Cement Concrete (1:2:4) and providing 38mmx6mm F.I. bar on the top of GI pipe in/c providing wooden/GI pipe hand rail of any design in/c polishing/painting etc. all complete as per direction of the E-I-C. (Exposed area of railing to be considered for measurement).		
5.19.03.01	With Chittagong Teak wood handrail (150mmx62mm) finished	sqm	5,760.60
5.19.03.02	With Silkarai wood handrail (150mmx62mm) finished	sqm	4,780.68

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1	2	3	4
5.19.03.03	With Chittagong Teak wood handrail (112mmx62mm) finished	sqm	5,136.47
5.19.03.04	With Silkarai wood (112mmx62mm) finished	sqm	4,407.65
5.19.04	Supplying, fitting and fixing stair railing or any where directed made of 50mm dia GI pipe of minimum wall thickness 2.90mm hand rail on top and 20mm dia GI pipe series of minimum wall thickness 2.1mm-2.2mm provided 50mm c/c parallel to hand rail as per drawing (top and bottom gap 125mm) fixed with vertical 40mm dia GI pipe post minimum wall thickness 2.65mm @ 900mm c/c which fixed in 6mm thick MS plate angle cleat (top 75mmx75mm and vertical 75mmx100mm) welded to vertical post fixed to stair concrete with 12mm dia MS royal bolt (4 nos) i/c cost of fabricating, cutting, bending, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with C.C. (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	4,887.74
5.19.05	Supplying, fitting and fixing stainless steel (SS) stair railing of standard height with 1mm thick 50mm diameter stainless steel (SS) pipe for hand-rail fitted on railing top and vertical post used both end of flight, 1mm thick 40mm diameter stainless steel (SS) pipe used 2 nos as middle post (in between 50mm diameter stainless steel vertical pipes at end) of every flight vertically fitted in floor or trade with end cap and stainless steel (SS) screw and 1mm thick 25mm diameter stainless steel (SS) pipe for 5 nos in every flight placed parallel to 1mm thick 50mm diameter stainless steel (SS) rail pipe in each flight as per drawing for all floor and etc. including cost of all materials and labour all complete as per design and direction of the E-I-C.	sqm	5,372.59
5.19.06	Providing verandah railing or any where directed with 40mm or 50mm dia 2.9mm wall thickness GI pipe hand rail welded with 12~15mm dia of 2.35~2.3mm wall thickness GI pipe post fixed vertically @125mm c/c. 75mm of the bottom of the pipes to be embedded in floor with 50mmx50mmx6mm MS base plate welded at bottom, all complete in/c making necessary grooves in floor, packing the post with cement concrete (1:2:4), mending good all damages, finishing etc. all complete as per plan and direction of E-I-C. (Exposed area of railing will considered towards measurement)		
5.19.06.01	For 40mm dia of 2.9mm wall thickness GI pipe hand rail	sqm	3,539.06
5.19.06.02	For 50mm dia of 2.9mm wall thickness GI pipe hand rail	sqm	3,676.58
5.19.07	Supplying, fitting and fixing verandah railing or any where directed with 2mm thick 50 mm diameter stainless steel pipe placed on top horizontally and 1mm thick 40mm diameter stainless steel pipes placed vertically @ maximum 1200mm c/c welded to top rail of that 50mm diameter SS pipe and bottom fixed in floor with end cap and SS screw and 1mm thick 20 mm diameter stainless steel pipes placed horizontally @ maximum 125mm c/c welded with verticals i/c welding, bending, finishing, polishing, with supply of all required materials etc. all complete as per design and direction of the E-I-C.	sqm	3,994.78
5.19.08	Supplying, fitting and fixing verandah railing or any where as directed made of 20mm dia GI pipe of minimum wall thickness 2.1mm-2.2mm @ 100mm c/c and 50mm dia GI pipe of minimum wall thickness 2.65mm top in horizontal ways (top and bottom gap 125mm) as per design and drawing fixed with vertical 800mmx100mmx6mm H type MS plate post @ 900mm c/c which fixed in middle portion 20mm dia GI pipe post in between 50mmx25mmx5mm FI bar) with provision of 20mm GI pipe of minimum wall thickness 2.1mm-2.2mm passing hole in/c making hole in MS plate and FI bars in required diameter. All post fixing in floor by 100mmx150mm x 6mm MS base plate with 12mm dia MS royal bolt i/c cost of fabricating, cutting, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with C.C. (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	4,748.10
5.19.09	Supplying, fitting and fixing verandah railing or anywhere as directed made of 20mm square box of minimum wall thickness 16 gauge @ 100mm c/c and 50mm square box of minimum wall thickness 3mm in bottom of horizontal ways and side of vertical way and 75mm square box of minimum wall thickness 3mm in top of horizontal way as per design and drawing fixed with vertical 20mm square box of minimum wall thickness 16 gauge post @ 700mm c/c which fixed in 20mm square box of minimum wall thickness 16 gauge i/c cost of fabricating, cutting, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming in/c. cutting grooves in the R.C.C. or brick work, mending good the damages with cement concrete. (1:2.4) for all floors etc. all complete as per design and direction of the E-I-C.	sqm	2,237.65

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1	2	3	4
5.19.10	Providing MS or Corrugated Brass angle to the nosing of steps of stair case or any where directed in/c supplying 75mm long 12mmx3mm F.I. bar clamp with bifurcated ends @ 600mm c/c in each steps in/c fitting and fixing with angle by welding after cutting grooves in R.C.C.work without any damages, finishing and fixing the same with Cement Concrete (1:2:4) etc. all complete as per direction of the E-I-C.		
5.19.10.01	For 38mmx38mmx6mm M.S. Angle	m	535.20
5.19.10.02	For 32mmx32mmx6mm M.S. Angle	m	475.20
5.19.10.03	For 25mmx25mmx6mm M.S. Angle	m	415.43
5.19.10.04	For 38mmx38mmx6mm Corrugated Brass Angle	m	1,000.84
5.19.13	Supplying, cutting, bending, making, finishing, fitting and fixing name plate made by stainless steel sheet of minimum 1mm thick in standard size and quality as per drawing for School Building or any other Building or Boundry wall gate or any other pre-selected place where directed in Bengali or English pre-selected lettering of standard height and wide of 12mm thick, i/c finishing, polishing, fixing in position, clumping etc. all complete as per direction of the E-I-C."	sqm	16,002.93
5.19.14	Supplying, fitting and fixing in position flag stand made by 40mm dia stainless steel pipe of 2.50mm wall thickness and standard length (length minimum 6.02m or as per drawing) with 3 nos stainless steel flag hook of standard size and minimum 0.762mx0.457m size or standard size Bangladesh national flag made by best quality fabrics. The bottom part of the flag stand (stainless steel same Pipe) embedded to Cement concrete (1:2:4) base fixed with M.S clamp of standard size and length, i/c cutting the pipe, welding, finishing, polishing and cost of all other materials and labour, etc. all complete as per drawing and direction of the E.I.C.	m	996.34
Section-20: Grill, Fencing, V-H Blinds & Barbed Wire Fencing			
5.20.01	Supplying, fitting and fixing steel grill fencing in boundary wall with 31mmx6mm F.I. bar @150mm c/c placed vertically after cutting as per required measurement, welding the F.I. bar with 2 Nos. horizontal 31mmx6mm F.I. bar placed one at top and another at bottom in/c. embedding the horizontal F.I. bar in position after cutting grooves in wall upto 150mm depth and mending good the damages with Cement Concrete (1:2:4), finished with two coats of painting with synthetic enamel paint over a coat of anti-corrosive paint etc. all complete as per drawing and design and as per direction of the E-I-C.	sqm	2,773.54
5.20.02	Supplying, fitting and fixing steel grill fencing made with 20mmx20mmx3mm angle box with top MS cone (made with 2 nos. 20mmx20mmx3mm angle by welding) placed vertically @150mm c/c and welding the said vertical boxes with two nos. horizontal 25mmx25mmx5mm angle box (made with 2 nos. 25mmx25mmx5mm angle by welding), placing one at bottom and another at top and again fitted and fixed by welding the said horizontal box with vertical 38mmx38mmx6mm angle box post with top same MS box cone (made with 2 nos. 38mmx38mmx6mm angle by welding) provided 1800mm c/c in/c embedding the box post in brick/R.C.C. pillar upto 375mm depth after cutting grooves in wall/pillar in/c. mending good the damages with Cement Concrete (1:2:4) and finishing with 3 coats of anti-corrosive paint etc. all complete as per design, drawing and direction of the E-I-C.	sqm	6,528.48
5.20.03.01	Supplying, fitting and fixing Boundary grill made with 25mmx25mmx4mm square box @ 150mm c/c set vertically with top MS cone welded at top the said Vertical box welded with 2 nos Horizontal MS box of 40mmx40mmx4mm embeded end up to 75mm in Brick/ RCC pillar including cutting grooves in wall/ pillar, mending good the damages with cement concrete (1:2:4), finishing with 3 coats of synthetic enamel paint over a coat of anticorrosive priming coat, including febricating, cutting, welding, work shop charge, carrying etc all complete as per design, drawing and direction of the E-I-C.	sqm	7,071.83
5.20.03.02	Supplying, fitting and fixing Boundary grill made with 25mmx25mmx1.5mm MS square box @ 150mm c/c set vertically with top MS cone welded at top the said Vertical box welded with 2 nos Horizontal MS square box of 40mmx40mmx2mm embeded end up to 75mm in Brick/ RCC pillar including cutting grooves in wall/ pillar, mending good the damages with cement concrete (1:2:4), finishing with 3 coats of synthetic enamel paint over a coat of anticorrosive priming coat, including febricating, cutting, welding, work shop charge, carrying etc all complete as per design, drawing and direction of the E-I-C.	sqm	2,499.21

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5.20.03.03	Supplying, fitting and fixing of Boundary grill made with 25mm x25mm x1.5mm MS square box as outer frame and 12.50mm x12.50 MS square bar fitted horizontally @ 50mm c/c with welded to outer frame, 3 nos 12.50mm vertical MS square bar fitted with horizontal bar in every gap. The outer frame of grill having 2 nos anchoring clamps on each side and 3 nos anchoring clamps of 25mmx 25mmx 1.50mm MS square Box and anchoring clumps to RCC lintel, in/c cost of fabricating, cutting, welding, painting 2 coats of synthetic enamel paint over a coat of anticorrosive priming, cutting grooves, mending good the damages with Cement Concrete (1:2:4) etc. all complete as per design and direction of the E-I-C.	sqm	2,900.92
5.20.04	Manufacturing, supplying, fitting and fixing MS angle box post (bottom end bifurcated) made by thorough welding of two nos. 38mmx38mmx6mm MS angle and vertically placing the post into C.C./R.C.C. foundation in/c. cutting angle to required shape and size in/c covering the top of the post with 6mm thick MS plate etc. all complete as per drawing and as per direction of the E-I-C. (Excluding the cost of C.C./R.C.C. foundation).	m	1,450.12
5.20.05	Providing barbed wire fencing with R.C.C (1:2:4) posts @2.43m c/c and of section 100mmx100mm at top and 150mmx150mm at bottom of 2.13m total height (1.37m above G.L. and 0.76m below G.L) in/c 150mm thick, 450mm square spread footings (posts reinforced with 4 nos. 10mm dia main rod and 6mm dia stirrups @150mm c/c. footing reinforced with 5 nos. 10mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6mm dia. rods embedded into the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire with 4 points barbs @minimum 112mm c/c in/c 6mm thick cement plaster (1:4) up to 1500mm length of the posts etc. all complete as per direction of the E-I-C.	m	926.32
5.20.06	Supplying, fitting and fixing 12 BWG barbed wire (2 ply, 4 points) in fencing work @150mm c/c in both horizontally and vertically supported by 38mmx38mmx6mm MS angle post (300mm embedded in R.C.C. or in brick work. 600mm vertical and 450mm inclined or as per requirement) @2.4m c/c in/c straightening, tightening, bidding the joints with 18 BWG wire making holes in the angle etc. all complete in all respect as per direction of the E-I-C. (Excluding the post of R.C.C/Brick work).	sqm	739.24
5.20.07	Supplying, fitting and fixing 12mmx12mm (base x height) triangular wooden bit instead of putty for fixing glass panes with wooden frame by nails or by any other approved method in/c the cost of necessary wood, painting/polishing, nails etc. all complete as per direction of the E-I-C. (Excluding the cost of wooden frame and glass panes)	m	84.95
5.20.08	Supplying, fitting and fixing foreign made aluminium curtain rail for door and window in/c cutting, fitting and fixing as per required measurement and supplying necessary screws by electric drill and rowel plug etc. all complete as per direction of the E-I-C.	m	119.67
5.20.09	Supplying, fitting and fixing of Chittagong Teak wood strip (62mmx25mmx 20mm) for fixing of aluminium curtain rails as per design and drawing, fitted and fixed in position in/c. supply of screws, nails and two coats of French polishing over a coat of priming etc. all complete as per direction of the E-I-C.	m	819.99
5.20.10	Supplying, fitting and fixing vertical Venetian Blinds made with glass fibre fabrics (foreign made) with supply of all materials (foreign made) such as head rail (Aluminium) end capset, Rod till, sigger (stopper), runner, spacer (link), handling cord, ball chain, link chain, cord weight, weight plate, plastic washer, glass fibre fabrics and head capset etc. all complete as per direction of the E-I-C.	sqm	2,212.70
5.20.11	Supplying, fitting & fixing horizontal Venetian Blinds 25mm width made with aluminium foils/strips (foreign made) with supply of all materials (foreign made) such as head rail, bottom rail, rod till, head cap, bottom cap, gear box, stick, support end cap cord drum & support, bracket, cord lock, cord equalizer, top holder, ladder cord, handling cord and aluminium foils etc. all complete as per direction of the E-I-C.	sqm	2,209.91

Section-21: Concrete Hollow Block & Paving Stone & Pipe

5.21.01	Machine made Concrete Hollow Block work of 70mm to 190mm thick in partition wall (excluding plaster thickness) of standard Size: having minimum compressive strength of block should be 8.50 to 10 Mpa conforming to ASTM C129, made of natural sand, pea gravel and portland cement, bonded with 8-10mm thick cement mortar (1:4) with Portland Composite cement CEM II/AM, 42.5N), best quality sand (minimum FM1.2), thickness of individual hollow block wall should not be less than 16mm, water absorption not more than 7% and void volume should not exceed 33% of the block gross volume with uniform thickness, colour and texture. Making bond with connecting walls in/c necessary scaffolding and curing for requisite period (minimum three days on mortar joints by jute/brush in wet, followed by impervious/wet covering for another four days) i/c supply of all materials and labour etc. all complete as per direction of the E-I-C.		
5.21.01.1	70mm thick Concrete Hollow Block (Size:390mm x190mm x70mm) of minimum compressive strength 8.5 Mpa	sqm	922.17

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5.21.01.2	90mm thick Concrete Hollow Block (Size:390mm x190mm x90mm) of minimum compressive strength 8.5 Mpa	sqm	1,096.26
5.21.01.3	100mm thick Concrete Hollow Block (Size:390mm x190mm x100mm) of minimum compressive strength 8.5 Mpa	sqm	1,143.74
5.21.01.4	140mm thick Concrete Hollow Block (Size:390mm x190mm x140mm) of minimum compressive strength 10 Mpa	sqm	1,254.52
5.21.01.5	190mm thick Concrete Hollow Block (Size:390mm x190mm x190mm) of minimum compressive strength 10 Mpa	sqm	1,539.40
5.21.05	Supplying and laying of Concrete paving stone high load bearing pavers of approved size, shape and colour for Car Park over on 20mm thick Portland Composite Cement (CEM II/AM, 42.5N) mortar (1:2) base, raking out the joints and filling with same mortar in/c cleaning the existing surface, cutting, shaping and laying the paving stone in proper way, level and finishing with care, etc. all complete as per direction of the E-I-C. (Sand of minimum FM 1.2 to be used).		
5.21.05.01	150mmx150mmx20mm high load bearing pavers in red colour (MCW Design No CT-3, or equivalent best quality)sqm	sqm	2,348.74
5.21.05.02	230mmx80mmx20mm high load bearing pavers in red colour(MCW Design No CT-10, or equivalent best quality)	sqm	2,486.42
5.21.05.03	150mmx80mmx20mm high load bearing pavers in red colour(MCW Design No CT-10, or equivalent best quality)	sqm	3,023.86
5.21.05.04	300mmx210mmx25mm high load bearing pavers in red colour(MCW Design No CT-12, or equivalent best quality)	sqm	1,880.06
5.21.05.05	300mmx300mmx25mm high load bearing parking Tiles best quality.	sqm	1,577.44
5.21.16	Supplying and placing of Engraved cement concrete tiles (250mm x 250mm) in size having minimum thickness 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. Gray coloured of Concord/Mir or equivalent Prior approved best quality.	sqm	1,694.01
5.21.17	Supplying and placing of Engraved cement concrete tiles (250mm x 250mm) in size having minimum thickness 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. Red/Black/or any other approved coloured of Concord/Mir or equivalent Prior approved best quality.	sqm	1,801.73
5.21.19	Cleaning of Drain: Taking out of silted sludge from the bottom of drain and disposal quickly in safe places with necessary materials including cost of all materials and labour etc. all complete as per direction of Engineer in Charge. For open drain	cum	738.60
5.21.20	Cleaning of Drain: Taking out of silted sludge from the bottom of cover/pipe drain and disposal quickly in safe places with necessary materials etc. all complete as per direction of Engineer in Charge. For Cover/ Pipe drain	cum	1,230.99
5.21.21	Construction of Boundary Wall of 1.83m height with concrete hollow block (Size:400mmx200mmx80mm or any other equivalent size or quality) in cement mortar (1:4)with Portland Composite cement CEM II/AM, 42.5N), best quality sand (minimum FM1.2) with 6mm thick plastering (1:6) with Portland Composite cement CEM II/AM, 42.5N), best quality sand (minimum FM1.2) on both sides, laying of footing, grade beam and column made of special hollow blocks, paving stone below footing, topping over boundary wall in/c reinforcement, necessary scaffolding, curing for the requisite period etc. all complete as per direction of E-I-C. Thickness of individual block wall should not be less than 12mm and void volume should not exceed 33% of block gross volume. Minimum compressive strength of block should be 7N/mm2.	m	3,960.93

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5.21.22	Construction of Boundary Wall of 1.83m height with concrete hollow block (Size:400mmx200mmx80mm or any other equivalent size or quality) in cement mortar (1:4) of minimum sand F.M. 1.2 but without any plastering on any side, laying of concrete footing, grade beam and column made of special hollow blocks, paving stone below footing, copping over boundary wall in/c reinforcement, necessary scaffolding, curing for the requisite period etc. all complete as per direction of E-I-C. Thickness of individual block wall should not be less than 12mm and void volume should not exceed 33% of block gross volume. Minimum compressive strength of block should be 7N/mm ² .	m	3,288.67
5.21.23	Construction of Boundary Wall of 2.44m height with concrete hollow block (Size:400mmx200mmx80mm or any other equivalent size or quality) in cement mortar (1:4) with 6mm thick plastering (1:6) of minimum sand F.M. 1.2 on both sides, laying of concrete footing, grade beam and column made of special hollow blocks, paving stone below footing, topping over boundary wall in/c reinforcement, necessary scaffolding, curing for the requisite period etc. all complete as per direction of E-I-C. Thickness of individual block wall should not be less than 12mm and void volume should not exceed 33% of block gross volume. Minimum compressive strength of block should be 7N/mm ² .	m	5,575.62
5.21.24	Construction of Boundary Wall of 2.44m height with concrete hollow block (Size:400mmx200mmx80mm or any other equivalent size or quality) in cement mortar (1:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2) but without any plastering on any side, laying of concrete footing, grade beam and column made of special hollow blocks, paving stone below footing, topping over boundary wall in/c reinforcement, necessary scaffolding, curing for the requisite period etc. all complete as per direction of E-I-C. Thickness of individual block wall should not be less than 12mm and void volume should not exceed 33% of block gross volume. Minimum compressive strength of block should be 7N/mm ² .	m	4,677.43
5.21.25	Providing and installation of PVC water grade pipe (Lira brand or equivalent) embedded in R.C.C. roof and other R.C.C. members at all levels complete for electric and telephone wiring with all accessories such as circular box, pull box, bends, sockets in/c No. 12 SWG GI pull wire for drawing of cables in/c tying the pipe with reinforcement with the help of GI binding wires at 400mm intervals where required etc. all complete as per drawing and design (if provided) and as per direction of the E-I-C. (Prior approval from the Executive E-I-C shall have to be taken regarding quality of pipes and accessories).		
5.21.25.01	Minimum inner dia 16mm and minimum wall thickness 1.54mm	m	192.15
5.21.25.02	Minimum inner dia 20mm and minimum wall thickness 1.54mm	m	201.98
5.21.25.03	Minimum inner dia 25mm and minimum wall thickness 1.54mm	m	205.79

Section-22: Drain and Apron

5.22.01	Constructing surface drain of 300 mm clear width and depth up to 300 mm in brick masonry with 125 mm thick check wall in cement sand mortar (1:6) over average 75 mm thick cement concrete base (1:3:6) with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2) and 20mm down well graded 1st class/picked brick chips (LAA value not exceeding 40) over one layer of 1st class brick flat soling including breaking chips. The surface having minimum 12 mm thick cement sand plaster (1:3) with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2) and neat cement finishing, curing at least for 7 days including excavation in all kinds of soil, back filling with fine sand (F.M. 0.8), consolidating and dressing, cost of water, electricity, other charges etc. all complete as per direction of the E-I-C.	m	1,543.18
5.22.02	Providing apron with 50 mm thick cement concrete (1:2:4) with Portland Composite cement (CEM II/AM, 42.5N), best quality sand (minimum FM1.2) and 20mm down well graded 1st class/picked brick chips (LAA value not exceeding 40) including breaking chips and one layer 1st class brick flat soling at bottom' including cutting earth for preparation of bed and filling the interstices with local sand (F.M. 0.8) including finishing, dressing, curing at least for 7 days etc. all complete, including cost of water, and all other charges etc. all complete as per direction of the E-I-C.	sqm	1,153.39

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Section-23: Pile

5.23.01	Pre-cast driven RCC Micro compaction pile (150mmx150mm) with reinforced cement concrete having minimum cylinder crushing strength of 25 Mpa at 28 days (suggested mix proportion 1:1.5:3) with best quality Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM 2.50) and best quality 20mm down well graded crushed stone chips (LAA value not exceeding 30) (Preferably stone chips from Madhyapara, Dinajpur), screening through proper sieves, cleaning and washing thoroughly, centering and shuttering with MS sheet and steel form, placing of reinforcement cage in position, mixing the aggregates with mixer machine, casting in steel forms, using concrete or similar suitable chemicals, compacting by mechanical vibrators and tapered rods and curing for 28 days etc. all complete as per design & drawing fitting and fixing the pile cap, driving the pile upto the design depth with winch machine or specified method, providing all equipment, labour, materials including carrying etc. all complete as per design, drawing and direction of the E-I-C. (Excluding the cost of reinforcement and its fabrication)		
5.23.01.01	Cost of cement concrete (Size-150mmx150mm)	m	394.23
5.23.01.02	Cost of driving with winch machine up to 7.5 m	m	297.76
5.23.01.03	Cost of driving manually up to 6 m	m	282.74
5.23.02	Pre-cast driven RCC Micro compaction pile (150mmx150mm) with reinforced cement concrete having minimum cylinder crushing strength of 20 Mpa at 28 days (suggested mix proportion 1:1.5:3) with best quality Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM 2.2) and best quality 20mm down well graded crushed 1st class bricks/picked chips (LAA value not exceeding 38), screening through proper sieves, cleaning and washing thoroughly, centering and shuttering with MS sheet and steel form, placing of reinforcement cage in position, mixing the aggregates with mixer machine, casting in steel forms, compacting by mechanical vibrators and tapered rods and curing for 28 days etc. all complete as per design & drawing fitting and fixing the pile cap, driving the pile upto the design depth with winch machine or specified method, providing all equipment, labour, materials including carrying etc. all complete as per design, drawing and direction of the E-I-C. (Excluding the cost of reinforcement and its fabrication)		
5.23.02.01	Cost of cement concrete (Size-150mmx150mm)	m	303.54
5.23.02.02	Cost of driving with winch machine up to 7.5 m	m	297.76
5.23.02.03	Cost of driving manually up to 6 m	m	282.74
5.23.02.04	Construction of Sand compaction pile up to required depth and diameter with temporary steel casing in specified type of soil including Derrick/winch machine & Drop hammer (weight minimum 1 ton). The rate shall contribute the full compensation of furnishing all materials like sand (minimum F.M-0.8), driving pile holes, boring casing pipe, placing of materials & other compaction. SPT or any other method & tests for determining the improvement in the bearing capacity (N-value minimum 8), arranging all equipment and machinery, labour, tools and incidentals necessary to complete the work as per requirements described under this item of work as shown on the drawings and direction of the E-I-C. (excluding the cost of SPT)		
5.23.02.04.1	Cost of sand compaction pile (size 200mm dia)	m	214.71
5.23.02.04.2	Cost of sand compaction pile (size 250mm dia)	m	286.28
5.23.02.04.3	Cost of sand compaction pile (size 300mm dia)	m	352.45

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5.23.03	Boring and casting of RCC cast-in-situ piles up to the required depth and diameter with temporary steel casing in all types of soils including 2-chamber slurry tank, drilling" Boring and casting of RCC cast-in-situ piles up to the required depth and diameter with temporary steel casing in all types of soils including 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). Washing bore hole with bentonite fresh slurry (until the slurry from bore hole bottom have density less than 1.15gm/cc and sand less than 4%) placing of reinforcement and placing concrete by tremie pipe with best quality Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N), sand (minimum FM 2.50) and 20mm down well graded crushed stone chips (LAA value not exceeding 30) to result minimum ultimate cylinder crushing strength of 25MPa at 28 days (suggested minimum mix proportion 1:1.5:3) with allowable slump of 150mm to 200mm (using necessary admixture : ASTM C494/C494M and additional cement) 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 direction of the Engineer. Additional quantity of cement be added, if required to attain the afore-mentioned concrete strength, by the contractor at his own costs.(Boring method shall be selected as set in the drawing).		
5.23.03.01	BORING PERCUSSION METHOD: Direct Mud Circulation (DMC)		
5.23.03.01.1	450mm dia	m	1,606.15
5.23.03.01.2	500mm dia	m	Add +25.00% with Item No 5.23.03.01.1
5.23.03.01.3	600mm dia	m	Add +50.00% with Item No 5.23.03.01.1
5.23.03.01.4	700mm dia	m	Add +75.00% with Item No 5.23.03.01.1
5.23.03.01.5	800mm dia	m	Add +100.00% with Item No 5.23.03.01.1
5.23.03.02	Concreting (with water reducing Admixture)	cum	14,752.31
5.23.03.03	Concreting (without water reducing Admixture)	cum	14,363.91
5.23.04	Labour for breaking head of cast-in-situ bored pile/pre-cast pile up to required length by any means and removing the dismantled materials, such as, concrete to a safe distance including scrapping and removing concrete from steel/MS rods, 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).	cum	9,681.26
5.23.05	Conducting static load test as per ASTM D1143 or equivalent standard for the cast in situ/ precast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization. Conducting static load test as per ASTM D1143 or equivalent standard for the cast in situ/ precast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, arranging other necessary plants and equipment including staging, mobilization, demobilization, hire charge, gunny bags, sand and filling sacs/gunny bags for loading / concrete Block or equivalent, 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 Engineer (Minimum two cyclic loading). Before commencing load test, Contractor shall submit method statement for conducting load test to the Engineer 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 Engineer. Boring and pouring logs / Driving logs of piles and Method statement shall be the part of load test report . [Cost of combined Calibration Test (Hydraulic jack, Pressure gauge and electric pump) is included in all items]		
5.23.05.01	using sand filled gunny bag		
5.23.05.01.1	up to 75 ton	each	156,793.09
5.23.05.01.2	Above 75 ton and up to 125 ton	each	209,435.41
5.23.05.01.3	Above 125 ton and up to 175 ton	each	246,688.37
5.23.05.01.4	Above 175 ton and up to 225 ton	cum	286,827.92

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5.23.06	PIT (Pile Integrity test) of cast-in-situ/pre-cast pile by a qualified and approved PIT expert, preparing the pile heads and placing a small accelerometer on the top of a pile while hitting the pile head with a small hammer. The shock wave traveling through the pile propagate with the velocity of sound in concrete which is 3000-3500 m/s approximately and data acquisition and analysis, preparation of results in standard forms and compiling final report with recommendation on the tests or as decided by the Engineer, as per approved method {Report shall contain driving log/Boring and pouring logs, graphs & statement on "Calibration pile" (pile that tested for its capacity and PIT done earlier on it, at a place of Known soil profiles), soil investigation report (Calibration pile shall be made and tested first)} Method statement for conducting PIT shall be submitted the Engineer for approval, and shall be the part of PIT report.		
5.23.06.01	PIT on 10 (ten) nos. piles or less	set	21,946.32
5.23.06.02	PIT on each additional pile after 10(ten) piles tested.	each	1,732.43
5.23.07	Mobilization for pre-cast RCC test piles for driving with pile driving set, winch (if required, with followers), etc. up to the desired and required depth and length, etc. to determine the length of the services piles, etc, complete as per direction of the E-I-C. (The driving cost will be paid as per service piles).	LS	
5.23.08	Reinforced cement concrete in bands of well staining with Portland Composite cement (CEM II/AM, 42.5N), best quality coarse sand (minimum FM 1.8) and 20mm down well graded picked brick chips (LAA value not exceeding 38) to be obtained from best quality Picked chips, admixture with proper dodge, including cost of all other materials shuttering, casting, curing for 28 days, labour charges for breaking bricks into chips and all incidental charges, etc. all complete as per direction of the E-I-C (excluding the cost of reinforcement and its fabrication). Cylinder crushing strength of the concrete should not be less than 17MPa at 28 days of curing (suggested mix proportion 1:2:4). Additional quantity of cement to be added if required to attain the strength at the contractor's own costs.	cum	9,647.24
5.23.09.01	First class brick works in cement mortar (1:4) in staining of wells with Portland Composite cement (CEM II/AM, 42.5N) and best quality coarse sand (minimum FM 1.5) cutting bricks to required sizes, 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.	cum	8,507.20
5.23.09.02	First class brick works in cement mortar (1:3) in staining of wells with Portland Composite cement (CEM II/AM, 42.5N) and best quality coarse sand (minimum FM 1.5), cutting bricks to required sizes, 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.	cum	8,943.69
5.23.10	Reinforced cement concrete in well curb with Portland Composite Cement (CEM II/A-M, 42.5N), sand (minimum FM 1.5), 20mm down well graded Picked brick chips (LAA value not exceeding 38), and admixture with proper dodge, having cylinder crushing strength of 17MPa at 28 days as per design (suggested mix proportion 1:2:4) , excluding cost of reinforcement and its fabrication but including cost of MS angle and all other materials, shuttering, casting curing, labour charge for breaking Picked bricks into chips and all other incidental charges, etc. all complete as per direction of the E-I-C.	cum	10,240.87
5.23.11	Labour for sinking composite wells in all sorts of soils by dredging etc. true to drawing, design, plumbing and all other incidental charges (depth of sinking will be measured from bottom of well cap to the bottom of well curb), etc. all complete as per direction of the E-I-C.		
5.23.11.01	2000mmx2000mm wells size		
5.23.11.01.1	0m to 6m depth	m	10,668.11
5.23.11.01.2	6m to 12m depth	m	Add +12.50% with Item No 5.23.11.01.1
5.23.11.02	2000mmx2500mm wells size		
5.23.11.02.1	0m to 6m depth	m	Add +16.00% with Item No 5.23.11.01.1
5.23.11.02.2	6m to 12m depth	m	Add +37.00% with Item No 5.23.11.01.1
5.23.11.03	2000mmx3000mm wells size		
5.23.11.03.1	0m to 6m depth	m	Add +30.00% with Item No 5.23.11.01.1
5.23.11.03.2	6m to 12m depth	m	Add +70.00% with Item No 5.23.11.01.1
5.23.11.04	2500mmx3000mm wells size		

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5.23.11.04.1	0m to 6m depth	m	Add +37.00% with Item No 5.23.11.01.1
5.23.11.04.2	6m to 12m depth	m	Add +90.00% with Item No 5.23.11.01.1
5.23.12	Plugging the bottom of wells on being sunk to its final position with cement concrete in proportion 1:2:4 laid by "Tremie Pipe" method with Portland Composite Cement (CEM II/A-M, 42.5N), sand (minimum FM 1.50) and best quality 20mm down well graded Picked brick chips (LAA value not exceeding 38) including cost of all materials, labour for breaking bricks into chips and all other incidental charges, etc. complete as per direction of the E-I-C (10% excess cement is to be used). Concrete as laid should not be disturbed for at least 14 days.(excluding cost of reinforcement and its fabrication)	cum	10,438.10
5.23.13	Plugging the top of wells with cement concrete (1:2:4) with Portland Composite Cement (CEM II/A-M, 42.5N), sand (minimum FM 1.50) and best quality 20mm down well graded Picked brick chips (LAA value not exceeding 38) including cost of all materials, labour for breaking Picked bricks into chips and all other incidental charges, etc. complete in all respects as per direction of the E-I-C (excluding cost of reinforcement and its fabrication).	cum	10,059.07
5.23.14	Driving pre-cast RCC piles with drop hammer type rig in any type of soil to the required depth including mobilization, demobilization, 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 E-I-C.		
5.23.14.01	X-section of pre-cast pile: 200mmx200mm		
5.23.14.01.1	0m to 6m depth	m	211.66
5.23.14.01.2	6m and above depth	m	Add +15.00% with Item No 5.23.14.01.1
5.23.14.02	X-section of pre-cast pile: 225mmx225mm		
5.23.14.02.1	0m to 6m depth	m	274.52
5.23.14.02.2	6m and above depth	m	Add +15.00% with Item No 5.23.14.02.1
5.23.14.03	X-section of pre-cast pile: 250mmx250mm		
5.23.14.03.1	0m to 6m depth	m	504.55
5.23.14.03.2	6m and above depth	m	Add +15.00% with Item No 5.23.14.03.1
5.23.14.04	X-section of pre-cast pile: 300mmx300mm		
5.23.14.04.1	0m to 6m depth	m	599.38
5.23.14.04.2	6m and above depth	m	Add +15.00% with Item No 5.23.14.04.1
5.23.14.05	X-section of pre-cast pile: 350mmx350mm		
5.23.14.05.1	0m to 6m depth	m	698.75
5.23.14.05.2	6m and above depth	m	Add +15.00% with Item No 5.23.14.05.1
Section-24: Sub-Soil Investigation			
5.24.01	Sub-soil Investigation Except in special cases as deemed by the authority sub-soil exploration and testing to be executed only by the agencies having experience in the relevant field. Numbers and depth of Bore hole including necessary tests to be carried out as per advice of E-I-C.		
5.24.01.01	Mobilization and demobilization of boring equipment such as drilling rig, drilling pipes, drop hammer, tripod, pulley, chain, Wrench, sample collection devices tool and plants, tripod for temporary camp, other accessories and manpower at work site etc. all complete and accepted by the Engineer (with flat body truck for mounting Rig equipment).	site	13,647.37
5.24.01.02	Field visit and inspection of sampling and samples by the Geo-tech. Expert/ Engineer	site	2,308.11
5.24.01.03	Erection and Placement of Boring equipment at site as acceptable to the Engineer.		
5.24.01.03.1	On dry ground or a site with 0-0.75m depth of water	point	2,921.69
5.24.01.03.2	A site with water depth between 0.75m and 3m	point	6,387.69

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5.24.01.03.3	A site with water depth above 3m	point	6,606.34
5.24.01.04	Drilling 100mm dia bore-hole by wash boring method in connection with conducting standard penetration test (SPT) as directed and accepted by the E-I-C.		
5.24.01.04.1	Depth 0 to 9 meter	m	607.71
5.24.01.04.2	Depth 9 to 18 meter	m	664.16
5.24.01.04.3	Depth 18 to 27 meter	m	738.17
5.24.01.04.4	Depth 27 to 36 meter	m	821.88
5.24.01.04.5	Depth 36 to 45 meter	m	883.66
5.24.01.04.6	Depth above 45 meter	m	983.12
5.24.01.05	Execution of SPT at 1500mm interval with Standard Automatic Hammer (ASTM D-1586-84, hammer: (140 ± 2 lbs)/(63.5 ± 1 Kg), height of fall: (30" ± 1")/ (760mm ± 25mm) including withdrawn of drilling pipe from the bore-hole and fixing the steel cap with drilling pipe and replacing the drilling pipe with cap into the bore hole up to the layer of interest approved and accepted by the Engineer.		
5.24.01.05.1	Depth 0 to 9 meter	m	83.91
5.24.01.05.2	Depth 9 to 18 meter	m	86.98
5.24.01.05.3	Depth 18 to 27 meter	m	94.41
5.24.01.05.4	Depth 27 to 36 meter	m	123.03
5.24.01.05.5	Depth 36 to 45 meter	m	146.08
5.24.01.05.6	Depth above 45 meter	m	161.07
5.24.01.06	Collection of undisturbed soil samples in 75mm tubes from cohesive layer including preservation, transportation to the laboratory and testing as directed and accepted by the Engineer. (ASTM D-1587-83)	sample	346.22
5.24.01.07	Collection of disturbed soil samples in 38mm tubes including preservation, and transportation to the laboratory and testing as directed and accepted by the Engineer. (ASTM D-1586-83)	sample	166.70
5.24.01.08	Preparation, writing and submission of report on sub-soil investigation containing all parameters, bearing capacities, sections of boreholes on two or more sets of data given or assumed, citing reference (Bench mark and GPS location) etc. and all complete as per satisfaction and direction of Engineer-in-charge.	site	5,231.73
5.24.02	Conducting Electronic Cone Penetration Test with pore pressure measurement, dissipation test as per ASTM D 5778 method upto 50m depth to measure friction angle, undrained shear strength, tipresistance, skin friction, Relative density, pore pressure etc. (The Testing Party will be selected taking prior approval of Procuring Entity)		
5.24.02.01	Test on ground surface	nos	
5.24.02.02	Test under water	nos	
5.24.03	Sub-soil investigation at the actual locations of each building foundation positions in accordance with the specifications of ASTM D 1586 and D 1587. The bore holes shall have a minimum diameter of 100mm and shall be lined throughout and shall be minimum 30m to 45m deep or to a depth as specified in the ASTM/AASHTO or as directed by the E-I-C from the existing GL and taking all cautions and steps to collect the disturbed and undisturbed samples and making the bore holes. The item is inclusive of mobilization & demobilization, proper method of borings, arrangement of boat/barge all cost of materials, labourers, field and laboratory tests including report and records. (The Testing Party will be selected taking prior approval of Procuring Entity)		
5.24.03.01	Test on ground surface	nos	
5.24.03.02	Test under water	nos	

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Section-25: Chemical Admixture, Water-proofing Membrane

5.25.01	Supplying and mixing specified type chemical admixture delivered from an authorized local agent or manufacturer, comply with the ASTM C-494 requirements, confirming 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 having and confirming plainly marked the proprietary name of the admixture 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 under the strict accordance with manufacturers recommendation and instruction, providing safety provisions in all respects etc. all complete as per instruction and approved by the E-I-C. Dose (quantity in milliliters 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 borne by the Contractor and approved by the E-I-C. (Use of admixture is subject to prior approval of Design unit of LGED)		
5.25.01.01	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 ensurance.	litre	173.37
5.25.01.02	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.	litre	166.70
5.25.01.03	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.	litre	180.03
5.25.01.04	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.	litre	166.70
5.25.01.05	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.	litre	180.03
5.25.01.06	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.	litre	213.37
5.25.01.07	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.	litre	213.37

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.25.02	Supplying, 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 E-I-C. (supplied by only manufacturer's authorised dealer with certificate of origin) under following specification: Backing (HDPE) thickness : minimum 0.10mm Membrane thickness : minimum 1.40mm Total thickness : minimum 1.50mm Cold flexibility greater than (-)200C : ASTM D146 Pliability : "No crack" tested in ASTM D146 Tensile strength (film only) : min 3.50MPa (35000KN/m²) testing in ASTM D882 Tensile strength (composite) : at least 2.40 MPa or N/mm² Elongation (composite) : min 300% Cycling Ove Crack at (-)320C : No effect 100 cycles ASTM C836-89a. Puncture Resistance greater than 240N ASTM E 154-88 Resistance to hydrostatic Head at least 50m ASTM D5385 Tear resistance min 4.0 MPa (N/mm²) Adhesion to primed concrete min 4.0N/mm: ASTM D1000 Water vapor Transmission less than 0.10g/m² per hour : ASTM E96 Water absorption in 24 hour less than 33% ASTM D570 Heat stability (+)900C Environmental Compliance to conform : ASTM D543		
5.25.02.01	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)	sqm	905.92
5.25.02.02	Water-proofing membrane on made up surface below the floor or below the horizontal surfaces with temporary protective cover using polystyrene/1.5" 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)	sqm	771.04
5.25.02.03	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)	sqm	802.66
5.25.03.01	Anti-Salinity and Damp Proofing Admixture for 12mm thick cement Plastering Work in proportion (1:6) on new surface: Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub or equivalent admixture, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of anti-salinity, water & damp proofing, getting high work-abilities, better compatibility, vibration tolerance, void & porosity reducing, partially auto curing, etc. at inside, outside brick wall and concrete faces. Prepare a mixture with the proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the exposed concrete or brick surface (before plaster). Use the mixture within 2 hours of preparation. After that, prepare sand-cement mortar for plastering work using admixture as Foam-lub 250ml with 50kg cement. Initially 250ml Foam-lub for 1bag cement is to be mixed with required amount of water which will be used in preparation of sand cement mortar 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. (Excluding cost of Plastering Work).	sqm	29.76

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.25.03.02	Anti-Salinity and Damp Proofing Admixture for 12mm thick cement Plastering Work in proportion (1:4) on new surface: Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub or equivalent admixture, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of anti-salinity, water & damp proofing, getting high work-abilities, better compatibility, vibration tolerance, void & porosity reducing, partially auto curing, etc. at inside, outside brick wall and concrete faces. Prepare a mixture with the proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the exposed concrete or brick surface (before plaster). Use the mixture within 2 hours of preparation. After that, prepare sand-cement mortar for plastering work using admixture as Foam-lub 250ml with 50kg cement. Initially 250ml Foam-lub for 1bag cement is to be mixed with required amount of water which will be used in preparation of sand cement mortar 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. (Excluding cost of Plastering Work).	sqm	31.73
5.25.03.03	Anti-Salinity and Damp Proofing Admixture for 6mm thick cement Plastering Work in proportion (1:4) on new surface: Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub or equivalent admixture, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of anti-salinity, water & damp proofing, getting high work-abilities, better compatibility, vibration tolerance, void & porosity reducing, partially auto curing, etc. at inside, outside brick wall and concrete faces. Prepare a mixture with proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the exposed concrete or brick surface (before plaster). Use the mixture within 2 hours of preparation. After that, prepare sand-cement mortar for plastering work using admixture as Foam-lub 250ml with 50kg cement. Initially 250ml Foam-lub for 1bag cement is to be mixed with required amount of water which will be used in preparation of sand cement mortar 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. (Excluding cost of Plastering Work).	sqm	28.03
5.25.03.04	Anti-Salinity and Damp Proofing Admixture for Rule Pointing Work in proportion (1:2) on new surface: Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub or equivalent admixture, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of anti-salinity, water & damp proofing, getting high work-abilities, better compatibility, vibration tolerance, void & porosity reducing, partially auto curing, etc. at inside and outside brick wall. Prepare a mixture with the proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the exposed concrete or brick surface (before pointing work). Use the mixture within 2 hours of preparation. After that, prepare sand-cement mortar for pointing work using admixture as Foam-lub 250ml with 50kg cement. Initially 250ml Foam-lub for 1bag cement is to be mixed with required amount of water which will be used in preparation of sand cement mortar 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. (Excluding cost of Pointing Work).	sqm	28.28
5.25.03.05	Chemical for fair Face Treatment on sand, stones, ceramics & ordinary brick works: Supplying and applying specified type of chemicals such as Desalt-S01 and Hydro-Seal, Ef-34 or equivalent chemical, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. to prevent salinity, water absorption, growth of algae etc. on normal exposed fair face brick, ceramics and sand stone surface. First of all prepare a mixture with the proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the surface. Use the mixture within 2 hours of preparation. After 12 hours of application of desalt-S01 mixture, cleaning the surface with soft brush and water and wait minimum 4 days for drying the surface. On dried up surface, applying first coat of Hydro-Seal, Ef-34 mixture with jute brush, preparing the mixture with the proportion of 1 liter Hydro-Seal Ef-34, 6 liter water and 25 ml or 1 div mark T. catalyst. Applying second coat of Hydro-Seal, Ef-34 mixture after 01 day of first coat with jute brush on the same dried surface, preparing the mixture with the proportion of 1 liter Hydro-Seal Ef-34, 5 liter water and 25 ml or 1 div mark T. catalyst. Finally, applying third coat of Hydro-Seal, Ef-34 mixture after 01 day of second coat with jute brush on the same dried surface following same mixing proportion of second coat 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.	sqm	140.56

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.25.03.06	Water Proofing & Heat Reducing Admixture for Concrete Screeding over Roof Slab : Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub (Meta) or equivalent admixture, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of water & damp proofing, heat reducing, shrinkage factor controlling of heat of hydration and other thermal affecting factors, thermal insulation, controlling setting time, getting high work-abilities, better compatibility, vibration tolerance, void & porosity reducing, partially auto curing, etc. at roof top of building. First of all prepare a mixture with the proportion of 1 liter Desalt-S01, 10 liter Water and 25ml or 1 div Catalyst. Cleaning the surface properly and apply one coat of Desalt-S01 mixture with a jute brush or spray over the roof surface. Use the mixture within 2 hours of preparation. Secondly, prepare another mixture of curdy-dense grout and apply it before applying patent stone with the proportion of 2 liters Foam-Lub (Meta), 40 liters Water and 1 bag or 50 kg cement. Apply one coat of prepared curdy-dense grout with a broom on all over the roof surface. Finally prepare patent stone concrete/concrete screeding using 500ml Foam-lub (Meta) with 50kg cement. Initially 500ml Foam-lub (meta) for 1bag cement is to be mixed with required amount of water which will be used in preparation of patent stone concrete 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. (Excluding cost of 38mm thick Concrete Screeding (1:1.5:3)).	sqm	125.05
5.25.03.07	Anti Salinity and damp proofing Plaster treatment : Supplying and applying specified type of chemicals such as Desalt-S01 and Foam-Lub or equivalent Chemicals, confirming to the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for treatment of anti-salinity, water & damp proofing, getting high work-abilities, vibration tolerance, void & porosity reducing, partially auto curing etc. at inside & outside brick wall and concrete faces. Prepare a mixture in proportion of 1 liter of Desalt-S01 or equivalent Chemicals, 10 liter water and 25 ml or 1 div catalyst. Apply one coat of the mixture within 2 hours of preparation on exposed concrete surface/brick walls with a jute brush. Prepare a mixture of Curdy-Dense Foam-Lub or equivalent Cement Grout in proportion of 2 liters Foam-Lub or equivalent, 35 liters of water and 50 kgs cement. Apply 3 coats of prepared Cement Grout with a jute brush on the brick walls/concrete surfaces at an interval of 6 hours. Sand- Cement plaster work will be started before drying of 3rd coat of curdy-dense Foam-Lub or equivalent cement grout. Prepare sand-cement mortar for plastering work using admixture as Foam-Lub or equivalent 500 ml with 50 kg cement following procedure as 500 ml of Foam-Lub or equivalent is to be mixed with required amount of water to be used for 1 bag Cement. This mixture will be used in preparation of sand cement mortar 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.	sqm	159.28
5.25.03.08	Chemical for Water & Damp Proofing Basement Floor or Ground Floor or Retaining walls or Water Reservoirs or Water Tank or ETP or WETP or Drain Concreting etc where required including supplying and applying specified type of chemicals such as Foam-Lub or equivalent, confirming the current chemical specification requirements like physical properties, uniformity & equivalence in composition etc. for the treatment of Water & Damp Proofing treatment, vibration tolerance, decreases the permeability of concrete, better compatibility, void & porosity reducing, shrinkage factor controlling of heat of hydration etc. Prepare concrete screening using 500 ml Foam-Lub with 50kg cement. Initially 500 ml Foam-Lub for 1 bag cement is to be mixed with required amount of water which will be used in preparation of concrete 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.	liter	321.21
Section-26: Arboriculture Work			
5.26.01	Preparation of pit by earth work in excavation of 600 x 600 x 450 mm size pit for plantation, applying cow dung mixing with loamy silty soil and excavated earth, planting the plants, tightened with 1800 mm long borak bamboo post by jute rope including supply of tools and plants etc.all complete as per direction of the E-I-C	each	141.88
5.26.02	Plantation bed Preparation by spading the ground in to a depth of 150 mm to 250 mm beyond 50 mm thick scrapped ground , breaking earth clods to powder by wooden hammers or by any other means, picking up all sorts of rubbish, grasses by required tools, carrying, spreading, levelling and dressing earth all the surface area including cost of tools and plants etc. all complete and accepted by the Engineer.	sqm	25.85
5.26.03	Lawn surface preparation by scraping out up to 50 mm thick by suitable tool with picking up all sorts of bricks bats, rubbish etc by required tools and cleaning-removing and stacking the same to pre-selected safe distance including cost of tools and plants etc. all complete and accepted by the Engineer.	sqm	12.93

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.26.04	lawn area Preparation with leveling and dressing to proper slope and grade by spading the earth up to 150 mm thickness including cost tools and plants etc. all complete and accepted by the Engineer.	sqm	8.80
5.26.05	Alluvial loamy silty soil supplying cost by any means of approved local best quality including cost of labour for loading, unloading at both ends with properly stacking at site with cost of tools and plants etc. all complete and accepted by the Engineer.	cum	445.66
5.26.06	Spreading the alluvial loamy silty soil from the stacks at site on the lawn surface including cost labour for carrying, spreading, leveling, dressing the same etc. all complete as per direction of the E-I-C.	cum	207.18
5.26.07	Well decomposed cow dung supplying, including cost of carrying by trucks or any other means with loading, unloading at both ends, stacking the same at the site in preselected place and cost of tools and plants etc. all complete and accepted by the Engineer.	cum	977.49
5.26.08	Mixing well decomposed cow dung with alluvial loamy silty soil including cost of labour for earth excavation, carrying, mixing and removing the excess earth to safe distance with cost of tools and plants etc. all complete as per direction of the E-I-C.	cum	194.62
5.26.09	Lawn grass supplying by truck or any other means of approved best quality and size including sorting the grass to proper size and quality with washing the grass, dibbling the grass @ 10 mm to 50 mm distance in both ways, water spreading the 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 cost of tools and plants etc. all complete as per direction of the E-I-C.	sqm	70.07
5.26.10	Flower bed preparation for Spading in pits up to 600 mm depth, re-molding, picking up and placing and removing the spaded earth to a safe distance in pre-selected place including mixing well decomposed cow dung @ 1 cft per 6 cft of cutted earth and 20% loamy silty soil and 6 cft excavated soil and fill back the pit with cost of tools and plants etc.all complete as per direction of the E-I-C.	sqm	345.89
5.26.11	Hedge beds preparation 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 cost of tools and plant etc.all complete as per direction of the E-I-C.	sqm	241.77
5.26.12	Borrak bamboo of 12.20 m long and 100 mm dia supply and carrying at site including loading and unloading at both end stacking the same at site in pre-selected place with cost of tools and plants etc.all complete as per direction of the E-I-C.	m	61.47
5.26.13	Muli bamboo of 7.62 m long and 50 mm to 62.5 mm dia supply and carrying at site including loading and unloading at both end, stacking the same at site in pre-selected place with cost of tools and plants etc.all complete as per direction of the E-I-C.	each	107.71
5.26.14	Providing Muli bamboo tree guard by 1200 mm long and 500 mm dia of best quality muli bamboo including supplying , preparation, fitting and fixing Muli bamboo split 2 mm in size having 75 mm x 75 mm a square holes with 2 mm wide bamboo splits strengthen with 4 Nos. 2 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 cost of tools and plants etc.all complete as per direction of the E-I-C.	each	691.38
5.26.15	Providing, Bamboo jafry fencing by best quality muli bamboo including supplying, fitting, fixing split 2 mm in size having 75 mm x 75 mm mesh placed horizontally and diagonally doing 25 mm framing a square shape in both ways and both sides tightened with G.I wire fitted with Borrak bamboo post of 100 mm dia and placed firmly in position at 1800 mm apart including cost of tools and plants, digging hole and filling back etc.all complete as per direction of the E-I-C.	sqm	499.37
5.26.16	Rubbish carrying cost including taking up all sorts of bricks, brick-bats and rubbish, gravel chips, loading and unloading at both ends with cost of tools and plants etc.all complete as per direction of the E-I-C.	cum	228.13
5.26.17	Outdoor flower plants (Vogen blush, Tagar, Alamonda or any other species) without tub of local best quality for plantation in prepared bed etc. all complete as per direction of the E-I-C.	each	126.56
5.26.18	Indoor Plants (Erica Palm, dracaena or any other species of normal size) with burned clay 200mm to 250mm size tub of local best quality etc. all complete as per direction of the E-I-C.	each	166.95

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
5.26.19	Supplying and planting specified healthy Timber/Fruit/Herbal saplings of minimum 2.0m height, free from any diseases, collected from different nurseries (collection of saplings from government horticulture is preferable) & carrying the same to the worksite; preparation of pit prior to minimum 10 days of plantation by earthwork in excavation of 450mm x 450mm x 450mm size for plantation, applying 0.015 cum cow dung and 0.15 kg TSP mixed with excavated earth properly; planting the plants, tightened by jute rope with 2.0m long bamboo split/stick, sharpened at one end and placing it into the ground up to 0.50m depth, watering for minimum 07 days including supplying of tools etc. all complete as per direction of the E-I-C. The plant to plant (Timber/Fruits/Herbal Tree) distance will be as per tree plantation guideline.	each	127.96
5.26.20	Supplying and planting specified healthy palm saplings of minimum 0.60m height, free from any diseases, collected from different nurseries (collection of saplings from government horticulture is preferable) & carrying the same to the worksite; preparation of pit prior to minimum 10 days of plantation by earthwork in excavation of 450mm x 450mm x 450 mm size for plantation, applying 0.015 cum cow dung mixed with excavated earth properly; planting the plants, watering for minimum 07 days including supplying of tools etc. all complete as per direction of the E-I-C. The plant to plant (palm trees) distance will be as per tree plantation guideline.	each	88.03
5.26.21	Supplying and planting specified healthy coconut (local) saplings of minimum 0.60m height, free from any diseases, collected from different nurseries (collection of saplings from government horticulture is preferable) & carrying the same to the worksite; preparation of pit prior to minimum 10 days of plantation by earthwork in excavation of 450mm x 450mm x 450mm size for plantation, applying 0.015 cum cow dung and 100gm normal salt mixed with excavated earth properly; planting the plants, watering for minimum 30 days including supplying of tools etc. all complete as per direction of the E-I-C. The plant to plant (coconut trees) distance will be as per tree plantation guideline.		
5.26.21.01	Coconut saplings -local (minimum 1m height)	each	232.29
5.26.21.02	Coconut saplings -vietnamese or equivalent (minimum 1m height)	each	745.20

Chapter 6

Small Scale Water
Resources Development Works

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

Chapter - 6 : Small Scale Water Resources Development Works**Section-1: Earth Works**

6.01.01	Earthwork in excavation of canals/Khals, ponds, drains etc. by excavating earth to lines, grades and elevation in all types of soils except rocky, gravelly, slushy or organic soil as shown in the drawings, filling baskets, carrying and disposing all excavated materials at a safe distance including levelling, dressing etc all complete all for an initial exavation depth upto 2m and lead not exceeding 20m including arranging for and supplying all necessary tools and equipments etc., all complete as per direction of the Engineer-in-Charge.	cum	263.64
6.01.02	Earthwork in excavation of canals/Khals, ponds, drains etc. by excavating earth to the lines, grades and elevation as shown in the drawings, filling baskets, carrying & disposing of all excavated materials at a safe distance designated by the Engineer-in-Charge in all types of soil except rocky, gravelly, slushy or organic soil, levelling, dressing etc all complete for an initial excavation depth of each meter or part thereof beyond the initial 2m depth and an initial lead not exceeding 20m including arranging for & supplying all necessary tools & equipment at work site etc., all complete as per direction of the Engineer-in-Charge.	cum	33.85
6.01.03	Earthwork in excavation of canals/khals, ponds, drains, etc. by excavating earth to the lines, grades and elevation as shown in the drawing, filling baskets, carrying and disposing of all excavated materials at a safe distance designated by the E-I-C in all types of rocky, gravelly, slushy or organic soil, leveling, dressing, etc. all complete for an initial excavation depth upto 2m and an initial lead not exceeding 20m, including arranging for and supplying all necessary tools and equipment at work site, etc. complete as per direction of the E-I-C.	cum	325.19
6.01.04	Earthwork in excavation of canals/Khals, ponds, drains etc. by excavating earth to the lines, grades and elevation as shown in the drawings, filling baskets, carrying & disposing of all excavated materials at a safe distance designated by the Engineer-in-Charge in all types of rocky, gravelly, slushy or organic soil, levelling, dressing etc all complete for an initial excavation depth of each meter or part thereof beyond the initial 2m depth and an initial lead not exceeding 20m, including arranging for & supplying all necessary tools & equipment at work site etc., all complete as per direction of the Engineer-in-Charge.	cum	52.32
6.01.05	Earth Work in excavation in foundation trenches for hydraulic structures in all sorts of soil except rocky, gravelly, slushy or organic type, up to a depth of 2m to the lines, grades and elevation as shown on the drawings, removing boulders, logs and other objectionable materials, clearing all loose materials, disposing of all excavated materials to a safe distance designated by the Engineer-in-Charge for an initial lead of 20m, and cut to a firm surface etc. all complete as per requirement and direction of the Engineer-in-Charge.	cum	307.88
6.01.06	Earth Work in excavation in foundation trenches for hydraulic structures in all sorts of soil except of rocky, gravelly, slushy or organic type, for each additional depth beyond 2m to the lines, grades and elevation as shown on the drawings, removing boulders, logs and other objectionable materials, clearing all loose materials, disposing of all excavated materials to a safe distance designated by the Engineer-in-Charge for an initial lead of 20m, and cut to a firm surface, etc. all complete as per requirement and instruction of the Engineer-in-Charge.		
6.01.06.01	1st 1m and part thereof	cum	338.65
6.01.06.02	2nd 1m and part thereof	cum	369.43
6.01.06.03	3rd 1m and part thereof	cum	400.20
6.01.06.04	4th 1m and part thereof	cum	430.98
6.01.06.05	5th 1m and part thereof	cum	461.75
6.01.06.06	6th 1m and part thereof	cum	492.53
6.01.07	Earth work in excavation in foundation trenches for hydraulic structures in all sorts of rocky, gravelly, slushy or organic type, up to a depth of 2m to the lines, grades and elevation as shown on the drawing, removing boulders, logs and other objectionable materials, clearing all loose materials, disposing of all excavated materials to a safe distance designated by the E-I-C for an initial lead of 20m, and cut to a firm surface, removal of spoil to a safe distance, etc. all complete as per requirement and instruction of the Engineer-in-Charge.	cum	381.74
6.01.08	Earth Work in excavation of foundation trenches for hydraulic structures in all sorts of rocky, gravelly, slushy or organic type, for each additional depth beyond 2m to the lines, grades and elevation as shown on the drawings, removing boulders, logs and other objectionable materials, clearing all loose materials, disposing of all excavated materials to a safe distance designated by the Engineer-in-Charge for an initial lead of 20m, and cut to a firm surface, etc. all complete as per requirement and instruction of the Engineer-in-Charge.		

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.01.08.01	1st 1m and part thereof	cum	412.51
6.01.08.02	2nd 1m and part thereof	cum	443.29
6.01.08.03	3rd 1m and part thereof	cum	474.06
6.01.08.04	4th 1m and part thereof	cum	504.84
6.01.08.05	5th 1m and part thereof	cum	535.61
6.01.08.06	6th 1m and part thereof	cum	566.39
6.01.09	Earth filling work with specified soil in any type of dykes/ embankment including cutting, carrying, filling by throwing earth in layers not more than 150mm in each layer in proper alignment, grade, cambering and side slope in all types of soil except rocky, gravelly and slushy including benching not more than 30cm in vertical and 60cm in horizontal steps along the sides while widening any embankment, etc. all complete as per the direction of E-I-C. Earth will be arranged within 20m from the toe of the embankment. Payment will be made on compacted volume.		
6.01.09.01	Initial lift upto 1.50 m from the toe of embankment	cum	109.05
6.01.09.02	Upto 2.50m lift from the toe of embankment	cum	153.36
6.01.09.03	Upto 3.50m lift from the toe of embankment	cum	197.68
6.01.09.04	Upto 4.50m lift from the toe of embankment	cum	241.99
6.01.09.05	Upto 5.50m lift from the toe of embankment	cum	286.31
6.01.09.06	Upto 6.50m lift from the toe of embankment	cum	330.62
6.01.09.07	Upto 7.50m lift from the toe of embankment	cum	374.94
6.01.10	Extra rate over Item No.6.01.09 for each additional lead of 20m or part thereof beyond the initial lead of 20m	cum	15.39
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 benching not more than 30cm in vertical and 60cm in horizontal steps along the sides while widening any embankment, etc. all complete as per the direction of E-I-C. Earth shall be arranged by the LCS from a distance beyond 200m from the end of right of the way. (Payment will be made on compacted volume).	cum	451.36
6.01.12	Earth filling work with specified soil in any type of dykes/ embankment including cutting, carrying, filling by throwing earth in layers not more than 150mm in each layer in proper alignment, grade, cambering and side slope in all types of soil except rocky, gravelly and slushy including benching not more than 30cm in vertical and 60cm in horizontal steps along the sides while widening any embankment, etc. all complete as per the direction of E-I-C. Earth shall be arranged by the contractor at his own cost and it will include all necessary lead & lift. Payment will be made on compacted volume.	cum	197.68
6.01.13	Manual compaction of earth in 150mm thick compacted layers by breaking clods to a maximum size of 50mm using wooden drag or ladder and compacting using concrete drop hammer (dumus), watering or drying to obtain optimum moisture content if necessary including supplying of wooden drag, ladder, bamboo hammer, steel/concrete hammer & other requisite tools, etc. all complete as per direction of the Engineer-in-Charge. 85% compaction of the maximum dry density is to be obtained by the standard proctor test.	cum	61.55
6.01.14	Leveling & dressing the approach embankment crown, road flanks, building compound etc. in maintenance work by earth cutting and filling as necessary in proper slope and cambering including compaction etc. all complete as per direction of the Engineer-in-Charge.	sqm	31.80
6.01.15	Turfing on approach embankment Top & slope, building compound with good quality turf supplied by the contractor of not less than 225 mm x 225 mm in dimension including leveling, dressing, placing, anchoring turf with pegs, and watering till grass is fully grown, etc. all complete as per direction of the Engineer-in-Charge. (Payment to be made only when grass is fully grown)	sqm	24.88
6.01.16	Preparation of durmus (Size:150mm dia & 200mm height) by casting C.C.(1:2:4) with 75mm dia bamboo of 1.2m length including fitting & fixing which to be used for compaction of earth in proper way.	LS	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.01.17	Clearing by removal and disposal at a safe distance of everything above ground level which shall include trees, stumps, logs, bush, undergrowth grass, crops, loose vegetable, structures, etc. all complete as per instruction of the E-I-C.	LS	
6.01.18	Supplying Sign Board at site of 1.5mx1.0m size in plain CI sheet; painting, writing, erecting & fixing with bamboo including all complete as per direction of Engineer-in-Charge.	LS	
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, levelling, 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 direction of the E-I-C.	cum	89.09
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 instruction 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	197.50
6.01.25.02	Distance 101m to 250m	cum	201.34
6.01.25.03	Distance 251m to 500m	cum	205.19
6.01.25.04	Distance 501m to 750m	cum	212.89
6.01.25.05	Distance 751m to 1000m	cum	216.73
6.01.25.06	Distance 1001m to 1250m	cum	228.27
6.01.25.07	Distance 1251m to 1500m	cum	239.81
6.01.25.08	Distance Above 1500m	cum	247.51

Section-2: Brick Works and Sand filling Works

6.02.01	Supplying and spreading/laying 1st class/picked brick chips (AIV less than 32 or LAA value not exceeding 38) including cost of brick carrying, breaking into specified sizes including screening and spreading uniformly laying in bedding/ filter layer to CC brick block, including preparation of surfaces, ramming, compacting, leveling etc., all complete as per design, drawing, specification and direction of the Engineer-in-Charge. (Measurement will be made on loose volume only.)	cum	5,275.32
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.	cum	8,507.20
6.02.03	Single layer brick flat soling with 1st class or picked bricks, true to level, cambering/super elevation and grade including carrying bricks, filling the interstices tightly with sand of minimum FM 0.50 (0.012cum per sqm), etc. all complete as per direction of the Engineer-in-Charge.	sqm	479.70
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	1,741.34
6.02.05	Sand filling on the prepared foundation bed with sand of minimum FM 0.50 in difficult areas with 150mm in thickness each layer including supplying, compacting, placing in conformity with the profile and level as per design including watering, compaction etc. all complete as per instruction of the Engineer-in-Charge.	cum	1,244.46

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.	cum	9,946.57

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6.03.02	Cement Concrete work (1:2:4) in blinding/ centering layer below RCC works, RCC pipes, pipe collar joint, pump house and bottom of sump well in connection with Rubber Dam construction with Portland cement, sand (minimum FM1.8) and 20mm down graded gravel (LAA value not exceeding 35) including mixing by concrete mixer machine, laying, casting, compacting by concrete vibrator, curing for the requisite period etc. all complete as per direction of the Engineer in charge. Cylinder crushing strength of concrete should be as specified in the design.	cum	10,839.59
6.03.02.01	Cement concrete (C.C) work in foundation with Portland Composite Cement (CEM II/AM, 42.5N), sand (F.M= 1.8)) and 20mm down graded Shingles (LAA value not exceeding 40) to attain a minimum 28 days cylinder strength of 17.0 Mpa (Suggested mixing proportion 1:2:4), including grading, washing shingles, mixing, laying in forms, consolidating, curing for at least 21 days, including cutting trench, preparation of bed, shuttering and casting concrete all complete as per direction of the Engineer in charge.	cum	10,737.35
6.03.03	Minimum 6mm thick cement plaster (1:4) to rail bar and rail post with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand FM 1.2 be used)	sqm	254.07
6.03.04	Minimum 12mm thick cement plaster (1:4) to dado and plinth wall upto 150mm below ground level with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the Engineer-in-Charge. (Sand minimum FM. 1.2 to be used)	sqm	287.61
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 upto 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.	sqm	329.95
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	509.73
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	330.15
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	110.92
6.03.09	Providing 63 mm average thick wearing course (1:1.5:3) on deck slab of hydraulic structures with cement, sand (minimum FM $\geq$ 1.8) and 6mm downgraded boulder chips, mixing concrete, laying, cost of all materials, labour and transportation to the site, etc. all complete as per specification and direction of the Engineer-in-Charge.	cum	13,911.97
6.03.10	Minimum 19mm thick cement plaster (1:4) to dado and plinth wall upto 150mm below ground level with neat cement finishing including washing of sand and added Denso-01, finishing the edges and corners and curing for the requisite period etc. all complete as per direction of the engineer - in -charge.(sand FM 1.2 be used)	sqm	362.70

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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 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 hopper, 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	cum	13,666.60
6.04.01.02	For top slab, side walk, curb, wheel guard etc. of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS		
6.04.01.02.01	For height up to 5m	cum	16,853.11
6.04.01.02.02	For each additional height 300mm beyond 5m	cum	Add +1.90% with Item No 6.04.01.02.01
6.04.01.03	For diaphragm walls, wing walls, pier columns, abutments and other vertical members of hydraulic structure		
6.04.01.03.01	For Height Up to 5m	cum	15,659.77
6.04.01.03.02	For each additional height 300mm beyond 5m	cum	Add +1.90% with Item No 6.04.01.03.01
6.04.01.04	For cast-in-situ/ pre-cast railing & rail post of hydraulic structures	cum	19,921.19
6.04.02	RCC-25SCCM: Reinforced cement concrete work with minimum cement content related 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 hopper, 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	cum	16,007.47
6.04.02.02	For top slab, side walk, curb, wheel guard etc. of box culvert, regulator/ pipe sluice/ Rubber Dam/ WRS		
6.04.02.02.01	For height up to 5m	cum	19,030.58
6.04.02.02.02	For each additional height 300mm beyond 5m	cum	Add +1.90% with Item No 6.04.02.02.01
6.04.02.03	For diaphragm walls, wing walls, pier columns, abutments and other vertical members of hydraulic structure		

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6.04.02.03.01	Height up to 5 m	cum	16,741.75
6.04.02.03.02	For each additional height 300mm beyond 5m	cum	Add +1.90% with Item No 6.04.02.03.01
6.04.02.04	For cast-in-situ/ pre-cast railing and rail post of Hydraulic Structure	cum	21,145.54
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.	sqm	1,274.08

Section-5: M.S Rod Fabrication, M.S Embeded Parts and M.S Works

6.05.01	Supplying and fabrication of Ribbed or deformed bar reinforcement conforming to BDS ISO 6935-2:2006 (or standard subsequently released from BSTI) 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, tying with 22 BWG black annealed binding wire 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. Reinforcement shall be measured only in lengths of bars 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, wastages, binding wire, concrete cover blocks etc. as the cost of these is included in the unit rate.		
6.05.01.01	RB 300: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield strength, fy (ReH) = 300 MPa, but the actual yield strength based on mill tests does not exceed fy by more than the 125 MPa and the ratio of actual ultimate strength, fu (Re) to actual tensile yield strength (fy) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 16% and 2.5% respectively.	kg	89.63
6.05.01.02	RB 400 / 400W: Ribbed or Deformed bar produced and marked as per BDS ISO 6935-2:2006 with minimum yield stress, fy (ReH) = 400 MPa, but the actual yield strength based on mill tests does not exceed fy by more than the 125 MPa, the ratio of actual ultimate strength, fu (Re) to actual tensile yield strength (fy) shall be at least 1.25 and minimum elongation after fracture (A5.65) & minimum total elongation at maximum force (Agt) is 14% and 2.5% respectively.	kg	101.40
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	137.29
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	172.25
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	each	84.63
6.05.04.02	350mm x 25mm x 6mm M.S Clamp twisted with four holes for fixing	each	84.63

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 down graded) 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	778.96
6.06.01.02	Size: 400mm x 400mm x 300mm	each	501.18

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6.06.01.03	Size: 300mm x 300mm x 300mm	each	283.90
6.06.01.04	Size: 300mm x 300mm x 150mm	each	142.64
6.06.01.05	Size: 250mm x 250mm x 250mm	each	164.72
6.06.01.06	Size: 400mm x 400mm x 100mm	each	152.54
6.06.01.07	Size: 375mm x 225mm x 150mm	each	147.94
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/mm ² 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	185.47
6.06.02.02	Size: 400mm x 400mm x 300mm	each	348.34
6.06.02.11	Manufacturing and supplying of hollow Cement Concrete Block of dimension 450 mm x 450 mm with Portland Composite 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)		
6.06.02.11.01	Size: 450 mm x 450 mm x 75 mm; Hole dia : 150 mm	each	165.77
6.06.02.11.02	Size: 450 mm x 450 mm x 75 mm; Hole dia : 100 mm	each	171.15
6.06.02.11.03	Size: 450 mm x 450 mm x 100mm; Hole dia: 150 mm	each	206.95
6.06.02.11.04	Size: 450 mm x 450 mm x 100mm; Hole dia: 100 mm	each	150.67
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 Composite 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	171.69
6.06.02.12.02	Size: 450 mm x 450 mm x 75 mm; Hole dia: 100 mm	each	177.07
6.06.02.12.03	Size: 450 mm x 450 mm x 75 mm; Hole dia: 150 mm	each	212.87
6.06.02.12.04	Size: 450 mm x 450 mm x 75 mm; Hole dia: 100 mm	each	222.32
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	1,142.04
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	827.60
6.06.05	Labour for laying of brick blocks of size 380mmx380mmx300mm in position including carriage and placing in arrangement, level, grade etc. all complete as per drawing and direction of the E-I-C.	hundred	3,528.17
6.06.06	Labour charge for protective works in laying C.C blocks of different sizes including preparation, watering and ramming of base etc. all complete as per drawing & direction of the Engineer in charge	cum	1,130.81

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1	2	3	4
6.06.07	Labour charge for dumping in position of Stone Boulders/CC blocks/Brick blocks/ Sand Cement blocks of different sizes on river bed/ slope beyond 1m depth of water etc. all complete as per drawing and direction of the Engineer in charge.	cum	1,630.13
6.06.08	Labour for laying in position of different size of blocks by any means from store yards to the place of dumping with initial lead of 300m including laying in position.		
6.06.08.01	Size: 300mm x 300mm x 300mm	hundred	3,528.17
6.06.08.02	Size: 400mm x 400mm x 300mm	hundred	5,643.94
6.06.09	Supplying and placing of single layer of gunny bagged Riprap filled with mixture of sand (minimum FM 8.00) and Portland Composite Cement (CEM II/A-M, 42.5N) (8:1) along slopes of abutments, piers banks of river/khal, tamping the bags in place, curing by sprinkling water over the bags including the cost of all materials, labour and incidentals necessary to complete the works as per specification and direction by the Engineer-In-Charge.	sqm	792.77
6.06.10	Supplying and placing of two layers of gunny bagged Riprap filled with mixture of sand (minimum FM 0.80) and Portland Composite Cement (CEM II/A-M, 42.5N) (8:1) along slopes of abutments, piers banks of river/khal, tamping the bags in place, curing by sprinkling water over the bags including the cost of all materials, labour and incidentals as necessary to complete the work as per specification and direction by the Engineer-In- Charge.	sqm	1,462.00
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	100.98
6.06.11.02	Sand (F.M 0.50)	bag	89.82
6.06.11.03	Caked cement/Brick bats	bag	162.34
6.06.12	Supplying and placing including embedment along the toe line/under the PVC water stopper properly, non-woven needle punched type geo-textile filter of different grades, specifications for effective erosion protection/inverted filter in hydraulic structures/river training works including local handling and placing in position, providing machine made joints (with 100% nylon or polypropylene thread) or 35 cm lap in dry condition or minimum 100 cm lap under water including protecting the geo-textile materials; from UV ray and from any other damages etc. complete as per drawing and direction of Engineer-in-Charge. Geo- textile delivered at site should be clearly labeled with brand name and printed at regular intervals across the body of the fabric)		
6.06.12.01	Grade-I: Specification of which Mass (minimum) = 170 gm/m ² , thickness under pressure 2 KPa (minimum)=1.5mm, Strip tensile strength (minimum)=12KN/m, elongation (minimum)=35%, Grab tensile strength (minimum)=700N, CBR puncture resistance (minimum)=2000N, effective opening size (maximum)=0.10mm, permeability vertical under 2 Kpa pressure h is 100m (minimum)=0.003m/s and permeability horizontal under 2 Kpa pressure (minimum)=0.004m/s	sqm	195.04
6.06.12.02	Grade-V: Specification of which Mass (minimum) = 365 gm/m ² , thickness under pressure 2 KPa (minimum)=3.0mm, Strip tensile strength (minimum)=25KN/m, elongation (minimum)=40%, Grab tensile strength (minimum)=1500N, CBR puncture resistance (minimum)=4000N, effective opening size (maximum)=0.80mm, permeability vertical under 2 Kpa pressure h is 100m (minimum)=0.003m/s and permeability horizontal under 2 Kpa pressure (minimum)=0.004m/s	sqm	236.20
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, curing 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	1,551.93
6.06.14	Supplying & dumping of sand 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 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.		

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	183.26
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	219.82
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	243.26
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	388.02
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	406.28
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	536.44

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 contractor'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	137.08
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	818.05
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	1,651.80
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	12.31
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	291.08
6.07.06	Supplying and driving of 100mm thick RCC sheet piles with strength of 20.7 N/mm ² 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	5,612.36
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	16,200.64

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.07.08	Supplying metal shoes (150mmx150mm) of approved design for RCC piles with cost of iron or steel plate welded to proper size and shape with necessary arrangement and embedding in concrete piles including cost of all materials and labour, etc. all complete as per Specification and direction of the E-I-C.	each	509.71
6.07.09	Labour for driving pre-cast RCC piles in any type of soil, handling and keeping in position and driving with suitable monkey to the required depth including fitting and fixing steel cap, etc, all complete as per direction of E-I-C.		
6.07.09.01	225mm x 225mm		
6.07.09.01.01	From 0m to 6m	m	1,172.13
6.07.09.01.02	From 6m to 12m and above	m	1,561.46
6.07.09.02	250mm x 250mm		
6.07.09.02.01	From 0m to 6m	m	1,523.42
6.07.09.02.02	From 6m to 12m and above	m	1,740.63
6.07.09.03	300mm x 300mm		
6.07.09.03.01	From 0m to 6m	m	1,619.33
6.07.09.03.02	From 6m to 12m and above	m	1,928.12
6.07.09.04	350mm x 350mm		
6.07.09.04.01	From 0m to 6m	m	1,997.56
6.07.09.04.02	From 6m to 12m and above	m	2,091.97
6.07.10	Labour for breaking head of cast-in-situ bored pile/pre-cast pile up to required length by any means and removing the dismantled materials, such as, concrete to a safe distance including scrapping and removing concrete from steel/MS rods, 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)	cum	9,681.26
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 Madhhyapara, 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	735.54
6.07.11.01.02	500mm dia	m	Add +25.00% with Item No 6.07.11.01.01
6.07.11.01.03	600mm dia	m	Add +50.00% with Item No 6.07.11.01.01
6.07.11.02	Concreting		
6.07.11.02.01	450mm dia	cum	14,181.57
6.07.11.02.02	500mm dia	cum	14,181.57
6.07.11.02.03	600mm dia	cum	14,181.57
6.07.12	Supplying, sizing, placing & driving in position of 75mm to 100mm dia Borak bamboo post or pins of 4.5m to 6.0m long etc. complete as direction of the Engineer in charge.	m	121.82
6.07.13	Driving 75mm to 100mm dia or other means in dry land etc. all complete as per direction of the Engineer in charge.	m	61.55
6.07.14	Driving 75mm to 100mm dia or other means under water etc. all complete as per direction of the Engineer in charge.	m	61.55

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	256.46
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	306.47
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	360.27
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	473.69
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	510.03
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	507.24
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	590.40
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	1,031.28
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	1,114.54
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	2,027.11
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	4,208.43
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	551.39
6.07.25	Providing barbed wire fencing with R.C.C. (1:2:4) posts @2.43m c/c and of section 100mmx100mm at top and 150mmx150mm at bottom of 2.13m total height (1.37m above G.L. and 0.76m below GI) in/c 150mm thick, 450mm square Spread footings (posts reinforced with 4 nos. 10mm dia main rod and 6mm dia stirrups @150mm c/c. footing reinforced with 5 nos. 10mm dia rod both ways) supplying, fitting and fixing 8 lines of barbed wire horizontally (fixed with the post through 6mm dia. Rods embedded into the post) and 2 lines diagonally from post to post with 12 BWG 2 ply barbed wire with 4 points barbs @minimum 112mm c/c in/c 6mm thick cement plaster (1:4) up to 1500mm length of the posts etc. all complete as per direction of the Engineer In Charge	m	634.34

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

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	115,963.38
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	73,515.41
6.08.03	Manufacturing, supplying of M.S Vertical lift gate shutter of 8mm 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	Manufacturing, supplying of M.S Vertical lift gate shutter of 8mm 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	38,633.64
6.08.03.02	Size: 1.35m x 1.275m	each	54,969.60
6.08.03.03	Size: 1.35m x 1.575m	each	54,734.50
6.08.03.04	Size: 1.65m x 1.575m	each	76,790.69
6.08.03.05	Size: 1.65m x 1.875m	each	83,255.77
6.08.03.06	Size: 1.65m x 2.075m	each	93,478.93
6.08.03.07	Size: 1.65m x 2.50m	each	100,731.14
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	53,366.71
6.08.04.02	Size: 1.35m x 1.275m	each	66,105.18
6.08.04.03	Size: 1.35m x 1.675m	each	66,105.58
6.08.04.04	Size: 1.65m x 1.575m	each	88,081.89
6.08.04.05	Size: 1.65m x 1.875m	each	100,690.04
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/sluiice 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	12,973.53
6.08.05.02	Size: 1.35m x 1.275m	each	12,973.53
6.08.05.03	Size: 1.35m x 1.675m	each	12,973.53

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.08.05.04	Size: 1.65m x 1.575m	each	15,092.50
6.08.05.05	Size: 1.65m x 1.875m	each	15,092.50
6.08.05.06	Size 1.65mx2.075m	each	16,698.25
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	3,280.47
6.08.06.02	Size 1.35m x 1.275m	each	3,280.47
6.08.06.03	Size 1.35m x 1.675m	each	3,280.47
6.08.06.04	Size 1.65m x 1.575m	each	3,751.97
6.08.06.05	Size 1.65m x 1.875m	each	3,752.22
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	118,137.24
6.08.08	Supply of Chain Pulley		
6.08.08.1	1.5 tons Capacity	LS	
6.08.08.2	3.0 tons Capacity	LS	
6.08.08.3	5.0 tons Capacity	LS	
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	1,331.29
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	1,367.52

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	3,655.81
6.09.01.2	Internal diameter: 200mm	m	5,022.47
6.09.01.3	Internal diameter: 300mm	m	7,246.72
6.09.01.4	Internal Diameter: 400mm (wall thickness 6mm)	m	9,536.87
6.09.01.5	Internal Diameter: 450mm(wall thickness 6mm)	m	13,045.83
6.09.01.6	Internal Diameter: 600mm(wall thickness 7mm)	m	17,458.78
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	598.51
6.09.02.2	50mm dia GI Pipe	m	708.14
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	2,452.63
6.09.04	Welding at the splicing point/at the joint of GI Pipe using electrodes including the cost of all materials , labours, tools & equipments, the cost of power etc. complete as per drawing , Specifications and direction of the Engineer.	each	26.29

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	2,811.69
6.09.05.2	900mm dia, 100mm thick	m	4,796.62
6.09.05.3	1200mm dia, 100mm thick	m	6,191.58
6.09.06	Supplying pre-cast RCC Pipes of different dia manufactured with 12mm down graded dust free stone chips (Suggested mix ratio 1:1.5:3 & 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	1,602.40
6.09.06.02	350mm internal dia, 50mm thick	m	1,784.54
6.09.06.03	400mm internal dia, 50mm thick	m	1,927.95
6.09.06.04	450mm internal dia, 50mm thick	m	2,077.63
6.09.06.05	500mm internal dia, 50mm thick	m	2,215.42
6.09.06.06	550mm internal dia, 75mm thick	m	3,078.96
6.09.06.07	600mm internal dia, 75mm thick	m	3,318.02
6.09.06.08	650mm internal dia, 75mm thick	m	3,521.22
6.09.06.09	700mm internal dia, 75mm thick	m	3,730.60
6.09.06.10	750mm internal dia, 100mm thick	m	5,042.34
6.09.06.11	800mm internal dia, 100mm thick	m	5,156.20
6.09.06.12	850mm internal dia, 100mm thick	m	5,232.62
6.09.06.13	900mm internal dia, 100mm thick	m	5,691.97
6.09.07	Supplying, fitting fixing and installation of 300mm dia Alfa valve as per drawing, specification and direction the Engineer-in-Charge.	LS	
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	134,943.03
6.09.08.02	450mm dia gate valve	each	125,256.13
6.09.08.03	400mm dia gate valve	each	114,492.11
6.09.08.04	355mm dia gate valve	each	102,220.12
6.09.08.05	315mm dia gate valve	each	92,070.78
6.09.08.06	280mm dia gate valve	each	81,469.05
6.09.08.07	250mm dia gate valve	each	73,558.68
6.09.08.08	225mm dia gate valve	each	69,882.11
6.09.08.09	200mm dia gate valve	each	57,351.51
6.09.08.10	150mm dia gate valve	each	42,171.40
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	11,372.01
6.09.10	Supplying and fitting, fixing of best quality accessories for the steel pipe line.		
6.09.10.1	as MS Flap cover Hinge at priming Inlet Top.	LS	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.09.10.2	as Hand wheel along with stem shaft including fitting & fixing at top slab with base plate	LS	
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	1,535.15
6.09.11.2	Trash screen for top cover of sump well (3000mm dia)	set	21,246.28
6.09.12	Supplying and laying 12BWG G.I. Wire 75mm rhombus mesh for required size & length of CC Block including placing in position by concrete block including cost of all materials, labour, etc. all complete as per direction of the E-I-C.	sqm	185.95
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 specifications in the drawing and direction of the Engineering-in-Charge.		
6.09.13.01	Internal Diameter:150mm	each	6,711.16
6.09.13.02	Internal Diameter:200mm	each	8,263.69
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 specifications in the drawing and direction of the Engineering-in-Charge.		
6.09.14.01	Internal Diameter:150mm (2.5mm thick)	each	4,178.01
6.09.14.02	Internal Diameter:200mm (3.0mm thick)	each	5,305.14
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	8,092.38
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	1,321.04
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	541.77
6.09.17.02	Dia 550mm to dia 750mm	each	711.67
6.09.17.03	Dia 750mm to dia 900mm	each	929.66
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 specifications in the drawing and direction of the Engineering-in-Charge.	each	21,032.60
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 specifications in the drawing and direction of the Engineering-in-Charge.	each	3,774.09

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	707.67
6.10.01.02	For PVC Pipe:180mm Dia, Wall Thickness 3.6mm	m	878.01
6.10.01.03	For PVC Pipe: 200mm Dia, Wall Thickness 4.0mm	m	1,053.88

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
6.10.01.04	For PVC Pipe: 225mm Dia, Wall Thickness 4.5mm	m	1,573.21
6.10.01.05	For PVC Pipe: 250mm Dia, Wall Thickness 4.9mm	m	1,674.31
6.10.01.06	For PVC Pipe: 280mm Dia, Wall Thickness 4.9mm	m	2,064.84
6.10.01.07	For PVC Pipe:315mm Dia, Wall Thickness 4.9mm	m	2,681.11
6.10.01.08	For PVC Pipe:355mm Dia, Wall Thickness 5.6 mm	m	3,380.46
6.10.01.09	For PVC Pipe:400mm Dia, Wall Thickness 6.3mm	m	4,179.53
6.10.01.10	For PVC Pipe:450mm Dia, Wall Thickness 7.0mm	m	5,118.47
6.10.01.11	For PVC Pipe:500mm Dia, Wall Thickness 7.8mm	m	6,188.98
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	1,468.35
6.10.02.02	For Bend Size:180mm Dia,wall thickness2.8mm&1.52m Length	each	1,792.76
6.10.02.03	For Bend Size:200mm Dia,wall thickness3.2mm&1.52m Length	each	2,184.89
6.10.02.04	For Bend Size:225mm Dia,wall thickness3.5mm&1.52m Length	each	2,647.54
6.10.02.05	For Bend Size:250mm Dia,wall thickness3.9mm&1.52m Length	each	3,303.42
6.10.02.06	For Bend Size:280mm Dia,wall thickness4.4mm&1.52m Length	each	4,165.25
6.10.02.07	For Bend Size:315mm Dia,wall thickness4.9mm&1.52m Length	each	5,410.73
6.10.02.08	For Bend Size:355mm Dia,wall thickness5.6mm&1.52m Length	each	6,805.73
6.10.02.09	For Bend Size:400mm Dia,wall thickness6.3mm&1.98m Length	each	10,144.42
6.10.02.10	For Bend Size:450mm Dia,wall thickness7.0mm&1.98m Length	each	12,384.32
6.10.02.11	For Bend Size:500mm Dia,wall thickness7.8mm&1.98m Length	each	15,233.55
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	703.85
6.10.03.02	For End Cap Size:180mm dia, wall thickness 2.3mm &0.56m Length	each	805.40
6.10.03.03	For End Cap Size: 200mm dia, wall thickness 2.5mm &0.56m Length	each	899.91
6.10.03.04	For End Cap Size: 225mm dia, wall thickness 2.8mm &0.56m Length	each	1,169.32
6.10.03.05	For End Cap Size:250mm dia, wall thickness 3.1mm &0.56m Length	each	1,307.55
6.10.03.06	For End Cap Size:280mm dia, wall thickness 3.5mm &0.56m Length	each	1,585.42
6.10.03.07	For End Cap Size: 315mm dia, wall thickness 4.0mm &1.42m Length	each	4,080.62
6.10.03.08	For End Cap Size:355mm dia, wall thickness 4.4mm &1.42m Length	each	5,159.66
6.10.03.09	For End Cap Size:400mm dia, wall thickness 5.0mm &1.42m Length	each	6,468.62
6.10.03.10	For End Cap Size:450mm dia, wall thickness 5.6mm &1.42m Length	each	7,993.38
6.10.03.11	For End Cap Size: 500mm dia, wall thickness 6.2mm &1.42m Length	each	9,780.51

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	1,940.87
6.10.04.02	For T-Joints: 180mmx180mmx180mm, Wall thickness 2.8mm&1.47 Length	each	2,258.23
6.10.04.03	For T-Joints: 200mmx200mmx200mm, Wall thickness 3.2mm&1.47 Length	each	2,623.56
6.10.04.04	For T-Joints: 225mmx225mmx225mm, Wall thickness 3.50mm&1.47 Length	each	3,172.25
6.10.04.05	For T-Joints: 250mmx250mmx250mm, Wall thickness 3.90mm&1.47 Length	each	3,885.97
6.10.04.06	For T-Joints: 280mmx280mmx280mm, Wall thickness 4.4mm&1.47 Length	each	4,770.36
6.10.04.07	For T-Joints: 315mmx315mmx315mm, Wall thickness 4.90mm&1.47 Length	each	6,020.07
6.10.04.08	For T-Joints: 355mmx355mmx355mm, Wall thickness 5.6mm&1.98 Length	each	9,265.67
6.10.04.09	For T-Joints: 400mmx400mmx400mm, Wall thickness 6.30mm&2.29Length	each	12,349.05
6.10.04.10	For T-Joints: 450mmx450mmx450mm, Wall thickness 7.0mm&2.67Length	each	16,835.90
6.10.04.11	For T-Joints: 500mmx500mmx500mm, Wall thickness 7.80mm&2.67Length	each	20,669.68
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	181.42
6.10.05.02	For 103mm dia pipe,Wall Thickness 1.40mm and weight 0.664Kg /m	m	247.89
6.10.05.03	For 153mm dia pipe,Wall Thickness 2.0mm and weight 1.06Kg /m	m	430.69
6.10.06	Supply and Placing of joint Sealant(2-part Polysulphide Sealer or Butyl Mastic Sealant or Similar approved) including cleaning and priming of joint surfaces and placement of sealant in accordance with manufacturers instruction for pipes with spigot and socket pipe joint, etc. all complete as per direction of Engineer- in – charge.	kg	2,221.56
6.10.07	Supplying, fitting and fixing in position of 9mm thick and 230mm wide PVC water stop (3 bulb type) having minimum strength of 13.80 N/mm ² at 225% elongation and of approved grade and quality in contraction and expansion joints with necessary arrangements for modification in shuttering and support arrangements for keeping the water stop in position during casting etc. all complete as per design, specification and direction of the E-I-C.	m	1,187.40
6.10.08	Supply Puddlow brand of England/German/India	LS	
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	387.76
6.10.09.2	300mm (Inside dia)	m	6,204.21
6.10.09.3	600mm (Inside dia)	m	11,632.90
6.10.09.4	900mm (Inside dia)	m	17,449.34

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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	24,040.29
6.11.01.02	For 12mm Thick Rubber Bag	sqm	23,155.52
6.11.01.03	For 11mm Thick Rubber Bag	sqm	22,418.20
6.11.01.04	For 10mm Thick Rubbar Bag	sqm	21,827.07
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	2,358.74
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	5,985.00
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	7,086.90
6.11.05	Supply of Rubber Glue at Site etc all complete as per direction of Engineer-In-Charge.	kg	623.66
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	3,532.95
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	847.33
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	3,627.84
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	10,351.84
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	4,986.35
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	2,872.32
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	13,603.31
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	2,154.24

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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	1,723.39
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	11,248.01
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.	each	118.48
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	14,361.60
6.11.19	Supplying and installation of Manhole cover on valve chamber including carrying and supplying of all materials, 500mm dia Manhole cover, fitting, fixing, all complete as per direction of the E-I-C.	each	8,616.96
6.11.20	Supply of 25mm thick rubber channel cap (with fitting, fixing etc.----- Engineer in charge)	m	258.51
6.11.21	Supply of 25mm thick rubber cork at the joining of steel sheet piles (with fitting, fixing etc.----- Engineer in charge)	each	35.90
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	9,853.31
6.11.23.01.2	Type D & E	set	7,368.49
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	13,848.69
6.11.25	Photograph at various construction stages & maintaining all photographs in Site Order Book etc. all complete as per direction of the Engineer-in-Charge.	LS	

Section-12: Dismantling Works

6.12.01	Dismantling damaged structural works in bridge/culvert and removing the debris to a safe distance, stacking properly for measurement, etc. all complete as per direction of the E-I-C.		
6.12.01.1	CC Work	cum	923.25
6.12.01.2	RCC Work	cum	1,600.29
6.12.01.3	Brick Work	cum	627.81
6.12.02	Dismantling steel structure bridge for re-use (as far as possible) by any means, removing the debris to a safe distance, carrying the salvaged steel members to the store yard of the department or anywhere as directed, etc. all complete as per direction of the E-I-C.	m.ton	5,214.41
6.12.03	Dismantling timber bridge and timber work including selecting, strong and stacking properly in measurable stacks after carrying those to a safe distance, etc. all complete as per direction of the E-I-C. (Measurement for payment to be made for quantity of salvaged wood).	cum	4,872.69

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 stacking 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	3,871.22

Section-13: De-watering, Bailing out water, Ring Bundh and Miscellaneous Works

6.13.01	De-watering of sub-soil water from the working area dry by controlling ground water table by undertaking all necessary measures including installation of shallow tube well, operation and maintenance of adequate number but not less than 2 nos. water pumps of not less than 60 L/S capacity each for pumping out water as required etc. all complete as per direction of the Engineer in charge.	LS	
6.13.02	Construction of temporary cross dam in all type of soil, including cutting, carrying throwing & filling with all leads and lifts etc. and removing the cross dam after complete the re-excavation of khal, etc. all complete as per direction of the Engineer-in-Charge.	LS	
6.13.03	Making earthen ring/cross bundh of required height and width to prevent water from entering in the working area for any type of foundation with earth arranged and carried by the contractor including bullah/bamboo palisading and double tarja mat/drum sheets walling as and where necessary, maintaining the same throughout the working period, filling by throwing earth in layers, removal of totally on completion of the hydraulic structures etc. all complete as per requirement and instruction of the Engineer-in-Charge.	LS	
6.13.04	Bailing out of water from work site including supply, operation and maintenance of requisite numbers of water pumps. It should be carried out in such a manner as to produce possibilities of the movement of water through or alongside any concrete being placed, etc. all complete as per direction of the Engineer-in-Charge.	LS	
6.13.05	Providing cork sheet/polystyrene 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	278.56
6.13.05.2	20mm thick sheet	sqm	278.56
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	101.70
6.13.06.2	20mm wide	m	81.40
6.13.07	Supplying, fitting and fixing 300mmx300mmx20mm thick marble Name plate at left hand wheel guard on each side, one in English and one in Bengali 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.	each	1,936.07
6.13.08	Supplying, fitting and fixing door & door frames (Chowkat) of sections 63mmx150mm made of 18 BWG (1.257mm) galvanized Steel Sheet, fixing, 250mm long 6 nos. of iron clamps of MS angle (38mmx38mmx6mm), one end bifurcated, with vertical members of the frames, fixing the frame in wall after filling the channel with cement concrete (1:2:4), mending good any damage, fixing 4 nos. of 100mm size iron hinge with vertical members of the frame for single leaf shutter, painting all iron faces in 2 coats over a coat of priming with enamel paint of approved colour and quality, including cutting, sizing, welding, etc. all complete, including supply of 38mm thick shutter manufactured with 22-24 BWG (0.794-0.629mm) Japanese coloured rolled/plastic coated iron sheet fitted to stiffener, at two vertical members and 4 bracings in between two sheets, sheets are fitted with requisite numbers of Aluminium repeat not by welding including supply of two handles, two hasbolts, two tower bolts (200mm) and all other materials, laborours, tools etc all complete as per drawing and direction of Engineer-in-Charge.	LS	

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1	2	3	4
6.13.09	Supplying, fitting and fixing steel window shutter including frame and Grill having requisite numbers of vertical and horizontal standard MS angles 25mmx25mmx5mm and 19mmx19mmx5mm and MS flat bar 25mmx5mm and 19mmx5mm (Grill) with grill FI clamps 225mmx3mm duly embedded in cement concrete (1:2:4) including making necessary arrangements of fabrications, welding etc. and finishing the intersecting points by filling including supplying and fixing handles, catch hooks 3 nos. hinge for each shutter etc. and 18 gauge MS sheet in position welded to steel shutter with 19mmx3mm MS flat bar stiffener and providing a coat of anticorrosive paint immediately after fabrication and before fixing in position as per drawings and direction of the Engineer-in-Charge.	sqm	4,617.50
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	9,742.70
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	
6.13.12	Testing of Ground Water collected from the observation well in/c. test for 'Arsenic' etc. all complete as per direction of the E-I-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	1,790.67
6.13.14	Supplying, fitting & fixing wooden gauges with borak bamboo 150mmx38mm of best quality Sundari or Jam/Jarul wood at site marked in meter and decimals including black & white painting and printing with red etc. all complete as per directions of the E-I-C.	m	978.61
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	143.62
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	667.30
6.13.17	Shifting of any gauge & de-fixing as per direction of the E-I-C.	each	123.10
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	6,297.18
6.13.19	Supplying, fitting and fixing 10mm dia to 12mm dia Polyvinyl / Nylon rope in position as per design drawings specifications and directions of the Engineering-in charge.	LS	
6.13.20	Supplying and installation of water pump (3 phase 440V-10HP centrifugal pump) with 200 Cum/hr. (2 cusec) capacity at maximum working head as per drawing and/or direction of the Engineer-in-Charge including supply with all fittings, fixing complete as per drawings and specifications including testing and commissioning to the satisfaction of the Engineer-in-Charge.	each	124,830.51
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	3,769.92
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	1,615.68
6.13.23	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	470.60
6.13.24	Supplying of Best Quality Safety Shoe of leather. all complete in all respect as per approved specification and direction of the Engineer-in-charge.	each	2,019.60
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	673.20

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

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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	9,302.28
6.14.01.2	Placing other places for additional for each 1 km beyond 5 km	m	Add +5.00% with Item No 6.14.01.1
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	1,846.88
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	3,220.20
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	6,482.53
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	81.52

Chapter 7

Sanitary and Water Supply Works

District : CUMILLA, B.BARIA, CHANDPUR

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Chapter - 7 : Sanitary, Water Supply & Fire Fighting Works**Section-1: Long Pan, Oriental pan & Lowdown**

7.01.01	Supplying, fitting and fixing Bangladesh pattern "BISF STANDARD" Long Pan (Model-314E, size 525mmx 295mmx 285mm, Bowl size-410mmx 225mm x 170mm or equivalent) with foot rest of vitreous China and preparing the base of pan with cement concrete (1:2:4) and wire net or rods including making holes wherever required and mending good the damages, etc. all complete as per direction of the E-I-C		
7.01.01.01	White [BISF STANDARD]	each	1,845.00
7.01.02	Supplying, fitting and fixing Bangladesh pattern "BISF STANDARD" Long Oriental Pan (Model-320, size 540mmx 425mmx 270mm, Bowl size-390mmx 210mm x 190mm or equivalent) with foot rest of vitreous China and preparing the base of pan with cement concrete (1:2:4) and with wire net or rods including making holes wherever required and mending good the damages, etc. all complete as per direction of the E-I-C.		
7.01.02.01	White [BISF STANDARD]	each	2,647.15
7.01.02.02	Coloured [BISF STANDARD]	each	2,700.49
7.01.02.03	Special Coloured [BISF STANDARD]	each	2,756.50
7.01.03	Supplying, fitting and fixing Bangladesh pattern BISF Standard Porcelain Oriental Pan (Model-320, size-540x425x270mm, Bowl size-390x210x190mm) or equivalent with foot rest with foot rest of vitreous China and preparing the base of pan with cement concrete (1:2:4) and wire net or rods including making holes wherever required and mending good the damages, supplying minimum 10 liters capacity lowdown with master siphon and lowdown cover or equivalent complete set and fitting fixing the same in position with C.I. brackets including supplying best quality 40mm dia PVC flush pipe with brass coupling (not exceeding 1.80m in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia ball cock and pulling chain etc. all complete as per direction of the E-I-C.		
7.01.03.01	White [BISF STANDARD]	each	5,653.03
7.01.03.02	Coloured [BISF STANDARD]	each	5,706.38
7.01.03.03	Special coloured [BISF STANDARD]	each	5,762.39
7.01.04	Supplying, fitting and fixing, Bangladesh pattern BISF Standard simple type Porcelain Long Pan (Model-323, size-520x290x260mm) or equivalent simple type of vitreous China with Siphon and preparing the base of pan with cement concrete and wire net or rods including making holes in walls and floors wherever required and mending good the damages, supplying Porcelain lowdown with master Siphon with Low down cover and all fittings, fitting fixing the same in position with C.I. brackets including supplying best quality 38mm dia PVC flush pipe with brass coupling (not exceeding 1.80m in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia ball cock and pulling chain etc. all complete as per direction of the E-I-C.		
7.01.04.01	White [BISF STANDARD] (520mmx290mmx260mm)	each	6,841.25
7.01.04.02	Coloured [BISF STANDARD] (520mmx290mmx260mm)	each	6,881.26
7.01.04.03	White [BISF STANDARD] Long Pan (Model-314E, size-525x295x285mm, Bowl size-410x225x170mm)	each	6,627.88
7.01.05	Supplying "BISF STANDARD" quality glazed porcelain Foot Rest (Model-305, size-280mmx140mmx30mm size or equivalent) including fitting fixing in position with cement mortar (1:4) if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing with all necessary fittings and connection etc. all complete as per direction of the E-I-C.		
7.01.05.01	White "BISF STANDARD"	each	251.43
7.01.05.02	Coloured "BISF STANDARD"	each	260.20

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7.01.06	Supplying, fitting and fixing superior quality Asian Water Closet (Long Oriental Pan) with foot rest of vitreous China and preparing the base of pan with cement concrete (1:2:4) and with wire net or rods including making holes wherever required and mending good the damages, supplying Asian cistern and fitting fixing the same in position with C.I. brackets including supplying best quality 40mm dia PVC flush pipe with brass coupling (not exceeding 1.80m in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia ball cock and pulling chain etc. all complete as per direction of the E-I-C.		
7.01.06.01	Asian Water Closet 29cm (long pan), size: 540x470x290mm, Asian Cistern, size: 385x105x210mm, Brand: RAK or Equivalent	each	7,676.07
7.01.06.02	Asian Water Closet 18 cm (long pan), size: 505x390x200mm, Asian Cistern, size: 385x100x210mm, Brand: RAK or Equivalent	each	6,842.58

Section-2: Commode & Lowdown, seat cover, flushing Siphon

7.02.01	Supplying, fitting and fixing European type glazed porcelain commode "P" or "S" type "BISF STANDARD" (Model-106A, Size-475mmx350mmx435mm, Bowl size-350mmx280mmx350mm) with 10.00 Liter Capacity low down cistern (Model-403, size-530x215x370mm), (vitress china) including all internal fittings (best quality) with ebonite (heavy type) plastic seat cover, best quality 12mm dia C.P. stop cock, 12mm dia plastic connection pipe with brass coupling and preparing the base with cement concrete and with wire net or rods including making holes wherever required and mending good the damages and fitting, fixing with all necessary fittings and connection, etc. all complete as per direction of the Engineer in Charge.		
7.02.01.01	White [BISF STANDARD]	each	6,610.38
7.02.01.02	Coloured [BISF STANDARD]	each	6,692.85
7.02.01.03	Special Coloured [BISF STANDARD]	each	6,776.71
7.02.02	Supplying, fitting and fixing superior quality Combi-closet glazed porcelain commode with seat cover, water tank with flushing unit, including fitting with fitting nut bolt of same brand in wall or floor with all internal fittings (best quality), best quality 12mm dia heavy type concealed C.P. stop cock for lowdown, 12mm dia plastic connection pipe with coupling including making holes in walls or floor or wherever required and mending good the damages and fitting, fixing with all necessary fittings and connection, etc. all complete as per direction of the E-I-C. (Commode, Lowdown, set with fittings)		
7.02.02.01	Size : 700x370x795 Model: RAK Orient or Equivalent	each	12,839.89
7.02.02.02	Size: 690x360x755mm (S Trap), Model: RAK Karla or Equivalent	each	11,347.16
7.02.02.03	Size: 725x360x840mm (S Trap), Model: RAK Venice or Equivalent	each	20,657.18
7.02.03	Commode/WC: Supplying, installation and commissioning of foreign made floor mounted close coupled European type commode/water closet (WC) 'P' or 'S' Trap with all internal parts of porcelain dual flush cistern (4.8l & 3l), plastic soft closing seat cover with rubber buffer and cap, supplying & fixing 12mm dia two in one bib cock for lowdown, 12mm dia heavy duty hose plus coupling, push shower, including fitting & fixing by specified nuts & bolts, making holes wherever required with preparing the base using cement concrete with wire mesh or rods (if necessary), mending the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction & approval of the Engineer-in-Charge.		
7.02.03.01	Size: 693x451x763 mm, Model: TOTO - C300 or Equivalent	each	54,740.78
7.02.03.02	Size: 695x368x763 mm, Model: TOTO C300RE#W or Equivalent	each	55,446.03
7.02.04	Commode/WC: Supplying, installation and commissioning of floor mounted close coupled European type commode/water closet (WC) 'P' or 'S' Trap with all internal parts of porcelain dual flush cistern, plastic soft closing seat cover with rubber buffer and cap, supplying & fixing 12mm dia two in one bib cock for lowdown, 12mm dia heavy duty hose plus coupling, push shower, including fitting & fixing by specified nuts & bolts, making holes wherever required with preparing the base using cement concrete with wire mesh or rods (if necessary), mending the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction of the Engineer-in-Charge & approval of concern Project Director or authority.		
7.02.04.01	Water closet with seat cover and flushing unit, Size: 380x750x810 mm (COTO-Farah C118 or Equivalent)	each	19,485.13

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Schedule of Rates, LGED, October 2019

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Section-3: Commode - Lowdown & WH Basin -Pedestal Set

7.03.01	Supplying, fitting and fixing superior quality Combi-closet glazed porcelain commode with seat cover, water tank with flushing unit, wash hand basin with pedestal including fitting with fitting nut bolt of same brand in wall or floor with all internal fittings (best quality), best quality 12mm dia heavy type concealed C.P. stop cock for lowdown and basin, 12 mm dia heavy type basin pillar cock, 12mm dia basin & lowdown plastic connection pipe with brass coupling, 30mm dia C.P. basin waste with chain plug, 44mm dia PVC waste water pipe with coupling including making holes in walls or floor or wherever required and mending good the damages and fitting, fixing with all necessary fittings and connection, etc. all complete as per direction of the E-I-C. (Commode, Lowdown, Wash Hand Basin with Pedestal complete set with fittings)		
7.03.01.01	Size: W.C. S trap & cistern : 680x370x800mm (S or P Trap), Wash basin & pedestal : 660x545x850 Model: RAK Orient or Equivalent	each	18,241.97
7.03.01.02	Size: W.C. S trap & cistern: 690x360x755mm (S Trap), Wash basin & pedestal : 605x485x 835 Model: RAK Karla or Equivalent	each	16,015.45
7.03.01.03	Size: W.C. S trap & cistern : 725x360x840mm S Trap), Wash basin & pedestal : 650x510x855mm Model: RAK Venice or Equivalent	each	29,272.55

Section-4: WH Basin, Pedestal Set, Cabinet Basin & Sink

7.04.01	Supplying, fitting and fixing "BISF STANDARD" glazed vitreous Wash Hand Basin (Model-213, size-450x405x180mm, Bowl size-375x275x136mm) including fitting fixing the same in position with heavy type C.I. brackets, 44mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia C.P. pillar cock, 30mm dia C.P. Basin waste with chain plug including making holes in walls and floors and fitting with royal plug, screws and mending good the damages etc. all complete as per direction of the E-I-C.		
7.04.01.01	White "BISF STANDARD"	each	6,504.05
7.04.01.02	Coloured "BISF STANDARD"	each	6,542.36
7.04.01.03	Special coloured "BISF STANDARD"	each	6,581.98
7.04.02	Supplying, fitting and fixing superior quality glazed vitreous Wash Hand Basin including fitting fixing the same in position with heavy type C.I. Brackets 44mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia C.P. pillar cock, 30mm dia C.P. Basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks screws and mending good the damages etc. all complete as per direction of the E-I-C.		
7.04.02.01	Size: 660x545mm (RAK Orient or Equivalent)	each	8,428.39
7.04.02.02	Size: 605x485mm, Model: RAK Karla or Equivalent	each	7,867.07
7.04.02.03	Size: 650x510mm, Model: RAK Venice or Equivalent	each	10,520.47
7.04.02.04	Size: 520x445mm (RAK Cynthia or Equivalent)	each	7,556.70
7.04.02.05	Size: 510x405mm, Model: RAK Lara or Equivalent	each	7,556.70
7.04.02.06	Size: 660x525mm (RAK Windsor or Equivalent)	each	9,683.11
7.04.03	Supplying, fitting and fixing "BISF STANDARD" glazed vitreous wash hand cabinet basin (Model-216, size-500x450x210mm and bowl size 395x315x160mm) including fitting, fixing the same in position with heavy type C.I. brackets, 44mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), 12mm plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia C.P. pillar cock, 30mm dia C.P. Basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks screws and mending good the damages etc. all complete as per direction of the E-I-C.		
7.04.03.01	White "BISF STANDARD"	each	7,270.09
7.04.03.02	Coloured "BISF STANDARD"	each	7,346.70
7.04.03.03	Special coloured "BISF STANDARD"	each	7,427.26

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7.04.04	Supplying, fitting and fixing "BISF STANDARD" glazed vitreous wash hand cabinet basin (Model-214, size-465x340x180mm and bowel size 350x230x130mm) including fitting, fixing the same in position with heavy type C.I. brackets, 44mm dia PVC waste water pipe with brass coupling (not exceeding 750mm in length), 12mm plastic connection pipe with brass coupling, 12mm dia brass stop cock, 12mm dia C.P. pillar cock, 30mm dia C.P. Basin waste with chain plug including making holes in walls and floors and fitting with wooden blocks screws and mending good the damages etc. all complete as per direction of the Engineering-in-charge.		
7.04.04.01	White "BISF STANDARD"	each	6,361.41
7.04.04.02	Coloured "BISF STANDARD"	each	6,397.07
7.04.04.03	Special coloured "BISF STANDARD"	each	6,431.41
7.04.05	Supplying, fitting and fixing "BISF STANDARD" glazed porcelain Pedestal (Model-715A, size-670x186x170mm) or equivalent best quality model etc. all complete as per direction of the Engineering-in-charge.		
7.04.05.01	White "BISF STANDARD"	each	821.56
7.04.05.02	Coloured "BISF STANDARD"	each	858.75
7.04.05.03	Special coloured "BISF STANDARD"	each	898.50
7.04.06	Supplying, fitting and fixing superior quality glazed porcelain Pedestal etc. all complete as per direction of the Engineering-in-charge.		
7.04.06.01	Size: 860mm long, Model: RAK Orient or Equivalent	each	1,985.88
7.04.06.02	Size: 835mm long (RAK Karla or Equivalent)	each	1,857.65
7.04.06.03	Size: 855mm long (RAK Venice or Equivalent)	each	2,902.71
7.04.06.04	Size: 795mm long (RAK Cynthia or Equivalent)	each	1,589.65
7.04.06.05	Size: 805mm long, Model: RAK Lara or Equivalent	each	1,589.65
7.04.06.06	Size: 860mm long, Model: RAK Windsor or Equivalent	each	2,550.08
7.04.07	Supplying, fitting and fixing local best quality glazed porcelain Pedestal (size-645mmx200mmx190mm or equivalent size and quality) etc. all complete as per direction of the Engineering-in-charge.		
7.04.07.01	White	each	821.56
7.04.07.02	Coloured	each	858.75
7.04.07.03	Special coloured	each	821.56
7.04.08	Supplying, fitting and fixing "BISF STANDARD" porcelain Sink (Model-502, size-635x480x195mm and bowel size : 555x418x175mm) fitted and fixed with heavy type C.I brackets, 12mm dia C.P. bib cock, 40mm dia C.P. chain plug, 40mm dia C.P. waste, 40mm dia PVC waste pipe with brass coupling (750mm length) including making holes in walls and floors and mending good the damages etc. all complete as per direction of the E-I-C.		
7.04.08.01	White "BISF STANDARD"	each	5,487.73
7.04.08.02	Coloured "BISF STANDARD"	each	5,603.96
7.04.09	Supplying, fitting and fixing porcelain Sink (625mmx490mmx224mm size) with sink tray (595mmx465mmx36mm) fitted and fixed with heavy type C.I brackets, 12mm dia C.P. bib cock, 40mm dia C.P. chain plug, 40mm dia C.P. waste, 40mm dia PVC waste pipe with brass coupling (750mm length) including making holes in walls and floors and mending good the damages etc. all complete as per direction of the E-I-C.		
7.04.09.01	White	each	7,812.26
7.04.09.02	coloured	each	8,044.71
7.04.10	Supplying, fitting and fixing single bowl Stainless Steel Sink with Sink Tray (Malaysia/ Singapore/Thailand made) fitted and fixed with heavy type C1/Steel brackets, 12mm dia C.P. bib cock, 40mm dia C.P. chain plug, 40mm dia CP waste, 40mm dia PVC waste water pipe with brass coupling (750mm length) including making holes in walls and floors and mending good the damages etc. all complete as per direction of the E-I-C.		

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7.04.10.01	Stainless Steel Sink with Sink Tray (Size : 1050mmx450mm)	sqm	6,465.09
7.04.10.02	Stainless Steel Sink with Sink Tray (Size : 750mmx450mm)	sqm	6,200.94
7.04.11	Counter Basin(Above): Supplying, installation and commissioning of foreign made glazed vitreous above counter Lavatories consist of 32mm dia nickel chrome P-Trap (not exceeding 352mm in length), 12mm dia plastic connection pipe with brass coupling, 12mm dia nickel chrome angle stop cock, 12mm dia C.P. pillar cock, 30mm dia one push C.P. Basin waste, including fitting and fixing of commode by specified nuts & bolts, making holes wherever required with preparing the base using cement concrete with wire mesh or rods (if necessary), mending the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction & approval of the Engineer-in-Charge.		
7.04.11.01	Size: 500x450mm, rectangle shape, white (TOTO – LT710CS or Equivalent)	each	47,406.10
7.04.11.02	Size: 550x446mm, oval shape, white (TOTO – LW861CJ or Equivalent)	each	36,827.25
7.04.12	Pedestal Basin: Supplying, installation and commissioning of foreign made glazed vitreous pedestal Lavatories consist of Basin body, 32mm dia nickel chrome P-Trap (not exceeding 352mm in length), 12mm dia metal wire sheathed connection pipe with brass/steel coupling, 12mm dia nickel chrome angle stop cock, 12mm dia C.P. pillar cock, 30mm dia one push C.P. Basin waste, including fitting, fixing and installation of Basin by specified nut bolt with preparing the base using cement concrete with wire mesh or rods (if necessary), mending the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction & approval of the Engineer-in-Charge.		
7.04.12.01	Size: 530x465mm, White (TOTO – LW236CJ / LW239FJ or Equivalent)	each	41,764.05

Section-5: Flat Urinal & Standing Urinal

7.05.01	Supplying, fitting and fixing "BISF STANDARD" European type glazed vitreous porcelain standing urinal (Model-603, size-485x360x290mm, Bowl size-300x255x245mm) including fitting, fixing the same in position after making holes in walls and floors, providing 40mm dia PVC waste water pipe with brass coupling upto grading below, 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock including mending good the damages etc. all complete as per direction of the E-I-C.		
7.05.01.01	White "BISF STANDARD"	each	4,320.85
7.05.01.02	Coloured "BISF STANDARD"	each	4,518.96
7.05.02	Supplying, fitting and fixing superior quality European type glazed vitreous Standing Urinals including fitting, fixing the same in position after making holes in walls and floors, providing 40mm dia PVC waste water pipe with brass coupling upto grading below, 12mm dia plastic connection pipe with brass coupling, 12mm dia brass stop cock including mending good the damages etc. all complete as per direction of the E-I-C.		
7.05.02.01	Size: 445x355x330mm, Model: RAK or Equivalent	each	5,417.07
7.05.03	Supplying, fitting and fixing "BISF STANDARD" glazed vitreous China squatting or porcelain flat urinal (Model-602A, size-510x380x85mm, Bowl size-210x260x46mm) with flushing inlet fitted in cement concrete with 12mm dia brass controlling valve, 44mm dia PVC flush pipe with brass coupling, 12mm dia plastic connection pipe including mending good the damages etc. all complete as per direction of the E-I-C.		
7.05.03.01	White "BISF STANDARD"	each	4,277.45
7.05.03.02	Coloured "BISF STANDARD"	each	4,329.46
7.05.04	Standing Urinal: Supplying, installation and commissioning of foreign made glazed vitreous Standing/wall hung Urinals consist of Urinal body, 40mm dia PVC waste water pipe with brass coupling up to grading below, inlet spud, wall flange w/seal gasket, hangers & screw, flash valve of 0.07MPa-0.75Mpa, including fitting and fixing of urinals by specified nuts & bolts, making holes wherever required with preparing the wall using cement concrete with wire mesh or rods (if necessary), mending the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction & approval of the Engineer-in-Charge.		
7.05.04.01	Size: 330x310x605mm, White & Rectangle Shape (TOTO – U57 / UT57 or Equivalent)	each	30,065.11

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Item Code	Brief Description of Item	Unit	Rate
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Section-6: Bib cock, Pillar cock, Sink cock, Faucets, Basin Mixture, Stop cock, Push shower, Shower Rose

7.06.01	Supplying, fitting and fixing best quality and heavy type bib cock, and Two in one Bib cock of brass or cromium plated or special quality plastic materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.01.01	12mm dia Brass Bib Cock	each	499.32
7.06.01.02	12mm dia C.P. Bib Cock	each	954.53
7.06.01.03	12mm dia Plastic Bib Cock with heavy iron thread	each	153.10
7.06.01.04	12mm dia C.P. concealed Bib Cock	each	1,281.52
7.06.01.05	20mm dia Plastic Bib Cock with heavy iron thread	each	217.22
7.06.01.06	12mm dia C.P Two in one Bib Cock	each	1,740.06
7.06.02	Supplying, fitting and fixing best quality Concealed sink cock of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.02.01	12 mm CP Concealed fixed sink cock	each	1,605.42
7.06.02.02	12 mm CP Concealed moving sink cock	each	2,041.40
7.06.03	Supplying, fitting and fixing best quality Stop Cock of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.03.01	20mm dia Brass Stop Cock (thread type)	each	871.18
7.06.03.02	12mm dia Brass Stop Cock (thread type)	each	614.73
7.06.03.03	20mm dia C.P. Stop Cock (thread type)	each	1,230.22
7.06.03.04	12mm dia C.P. Stop Cock (thread type)	each	1,255.87
7.06.04	Supplying, fitting and fixing special/fancy quality C.P. Concealed Stop Cock etc. all complete as per direction of the E-I-C..		
7.06.04.01	12mm dia Stop Cock (Special Quality) (thread type)	each	1,185.34
7.06.04.02	12mm dia Stop Cock (Fancy best quality) (thread type)	each	1,249.46
7.06.04.03	12mm dia C.P. Concealed Stop Cock (heavy duty thread type)	each	1,163.03
7.06.05	Supplying, fitting and fixing Special/Fancy quality C.P. concealed/ Surface Angle stop cock of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.05.01	12 mm CP surface mounted angle stop cock (general)	each	810.40
7.06.05.02	12 mm CP medium quality surface & heavy type fancy angle stop cock	each	810.40
7.06.05.03	12 mm surface special heavy type angle stop cock	each	945.04
7.06.05.04	12 mm CP concealed mount angle stop cock	each	1,182.27
7.06.06	Supplying, fitting and fixing 12mm dia C.P. Pillar Cock of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.06.01	12mm dia C.P. long Pillar Cock. Best quality	each	1,576.44
7.06.06.02	12mm dia C.P. long Pillar Cock. Special quality	each	1,512.33
7.06.06.03	12mm dia Moving Pillar Cock. Special quality	each	2,041.40
7.06.07	Supplying, fitting and fixing 125mm dia C.P. Shower Rose of cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.07.01	Best quality fixed type	each	1,512.33
7.06.07.02	Special Quality movable	each	1,159.70

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.06.07.03	Special fancy type moveable	each	1,448.21
7.06.08	Supplying, fitting and fixing best quality faucets of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.	each	1,592.60
7.06.09	Supplying, fitting and fixing CP Basin Mixture with all necessary hardware and consumables of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.	each	3,777.61
7.06.10	Supplying, fitting and fixing CP Single Handle Basin Mixture with all necessary hardware and consumables of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.	each	3,149.29
7.06.11	Supplying, fitting and fixing CP Shower Mixture including Shower Head only with all necessary hardware and consumables of fully brass or cromium plated materials made with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.	each	6,483.24
7.06.12	Supplying, fitting and fixing hand or push shower for ablution including holder of fully hard foreign plastic (Grohe) or stainless steel body with brass or stainless steel fittings push and SS chain or superior quality tube/pipe of standard length with leak proof and fixing in position with selected tape etc. all complete as per direction of the E-I-C.		
7.06.12.01	Moving type hand shower	each	2,479.08
7.06.12.02	Moving type push shower	each	713.81

Section-7: Looking Glass, Glass shelf, Towel rail, Soap case, Toilet Paper holder

7.07.01	Supplying, fitting and fixing Standard Size porcelain soap tray fitted with rowel plug and screw including making holes in walls by drill machine and mending good the damages etc. all complete as per direction of the E-I-C.		
7.07.01.01	White (150mmx110mmx40mm size)	each	289.80
7.07.01.02	Coloured (150mmx110mmx40mm size)	each	302.62
7.07.01.03	Superior Quality Porcelain soap tray, Size: 225x125mm, Model: RAK or Equivalent	each	507.79
7.07.01.04	Stainless Steel soap tray of standard size	each	596.26
7.07.02	Supplying, fitting and fixing toilet paper holder fitted with rowel plug and screw including making holes in walls by drill machine and mending good the damages etc. all complete as per direction of the E-I-C.		
7.07.02.01	White porcelain "BISF STANDARD" (Size: 150mmx150mmx126mm)	each	786.30
7.07.02.02	Special coloured porcelain (Size: 150mmx150mmx126mm)	each	581.13
7.07.02.03	Stainless Steel type (Size: 150mmx150mmx126mm)	each	722.18
7.07.02.04	Plastic type (Size: 150mmx150mmx126mm)	each	414.43
7.07.02.05	Porcelain toilet paper holder (Superior Quality), Size: 185x115mm, Model: RAK or Equivalent	each	786.30
7.07.03	Supplying, fitting and fixing Glass plate Shelf (600mmx125mm) of 5mm thick glass with fancy C.P. brackets, screws and frames fitted with rowel plug and screw including making holes in walls by drill machine and mending good the damages etc. all complete as per direction of the E-I-C.		
7.07.03.01	Super quality (white)	each	685.25
7.07.03.02	Medium quality (white)	each	569.85
7.07.03.03	Super quality (coloured)	each	659.61
7.07.03.04	Medium quality (coloured)	each	569.85
7.07.04	Supplying, fitting and fixing Towel rail with holder fitted with rowel plug and screw including making holes in walls by drill machine and mending good the damages etc. all complete as per direction of the E-I-C.		
7.07.04.01	C.P. Towel rail (Size : 600mmx20mm) with C.P. holder (Super quality)	each	1,224.58
7.07.04.02	C.P. Towel rail (Size : 600mmx20mm) with C.P. holder (Medium quality)	each	910.42

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.07.04.03	Superior Quality Towel rail with holder (Size: 95x65mm), Model: RAK or Equivalent	each	1,000.18
7.07.05	Supplying, fitting and fixing super quality unframed 5mm thick Mirror with hard boards at the back with all necessary fittings fitted with rowel plug and screw including making holes in walls by drill machine and mending good the damages etc. all complete as per direction of the E-I-C.		
7.07.05.01	Japan made Mirror (Size:450mmx350mm)	each	759.11
7.07.05.02	Belgium made Mirror (Size:450mmx300mm)	each	733.47
7.07.05.03	Belgium made Mirror (Size:450mmx600mm)	each	1,015.57
7.07.05.04	Belgium made Mirror	sqm	3,064.66

Section-8: Pipe of uPVC, ABS, PVC, HCl, CI, RCC etc. for Rainwater, Water supply, Soil, Waste etc.

7.08.01	Supplying 25mm to 200mm dia (inside) best quality uPVC pipes 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 fitted and fixed in position with sockets head and shoes, bends, clamps and nails etc. all complete in all floors as per direction of the E-I-C.		
7.08.01.01	Minimum inner dia 25mm and minimum wall thickness 2.50mm	m	110.56
7.08.01.02	Minimum inner dia 50mm and minimum wall thickness 2.50mm	m	160.04
7.08.01.03	Minimum inner dia 75mm and minimum wall thickness 2.9mm	m	290.92
7.08.01.04	Minimum inner dia 100mm and minimum wall thickness 3.4mm	m	429.92
7.08.01.05	Minimum inner dia 150mm and minimum wall thickness 4.5mm	m	916.83
7.08.01.06	Minimum inner dia 200mm and minimum wall thickness 5.3mm	m	1,902.62
7.08.02	Supplying different inside dia best quality uPVC C-grade 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 fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets (length: 6 meter each) etc. all complete as per direction of the E-I-C.		
7.08.02.01	12 mm dia wall thickness 2.8 mm - 3.3 mm	m	50.28
7.08.02.02	19 mm dia wall thickness 2.9 mm - 3.4 mm	m	71.71
7.08.02.03	25 mm dia wall thickness 3.4 mm - 4.0 mm	m	117.01
7.08.02.04	32 mm dia wall thickness 3.6 mm - 4.2 mm	m	126.32
7.08.02.05	40 mm dia wall thickness 3.7 mm - 4.3 mm	m	144.41
7.08.02.06	50 mm dia wall thickness 3.9 mm - 4.5 mm	m	174.47
7.08.02.07	60 mm dia wall thickness 4.8 mm - 5.5 mm	m	174.47
7.08.02.08	75 mm dia wall thickness 4.8 mm - 5.5 mm	m	314.19
7.08.03	Supplying different inside dia best quality ABS or PPR or prior approval equivalent best quality 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 fitted and fixed in position with sockets, bends, with all accessories such as Round grating/domed roof grating, bends, sockets (length: 6 meter each) etc. all complete as per direction of the E-I-C.		
7.08.03.01	12 mm dia wall thickness 2.8 mm - 3.3 mm	m	146.69
7.08.03.02	19 mm dia wall thickness 3.5 mm - 4.1 mm	m	223.02
7.08.03.03	25 mm dia wall thickness 4.6 mm - 5.2 mm	m	356.08
7.08.03.04	32 mm dia wall thickness 5.5 mm - 5.8 mm	m	445.50
7.08.03.05	40 mm dia wall thickness 6.9 mm - 7.2 mm	m	690.59
7.08.03.06	50 mm dia wall thickness 8.7 mm - 9.0 mm	m	1,091.03

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.08.04	Supplying different inside dia best quality uPVC special fittings having specific gravity 1.35 - 1.45, wall thickness 2.7 mm - 3.4 mm, 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 sockets, bends, with all accessories such as Round grating/domed roof grating bands, sockets etc. all complete as per direction of the E-I-C.		
7.08.04.01	50 mm dia uPVC Y or T - Y Cleanout	each	189.29
7.08.04.02	100 mm dia uPVC 'P' or 'S' trap	each	465.47
7.08.04.03	100 mm dia uPVC Y or T - Y Cleanout	each	356.86
7.08.05	Supplying, fitting, fixing and laying 150mm/200mm dia PVC "B" class pipe water grade (LIRA / AZIZ / NATIONAL POLYMER BRAND or equivalent) best quality sewerage pipe including necessary fittings and joints with high class solution and at the base and sides filling with best quality local sand all around the pipe (not less than 25mm) upto the required depth etc. complete as per type, plan and direction of the E-I-C.		
7.08.05.01	150mm dia PVC "B" class Pipe and minimum wall thickness 4.5mm	m	1,379.81
7.08.05.02	200mm dia PVC "B" class Pipe and minimum wall thickness 5.30 mm	m	1,753.73
7.08.05.03	Supplying 50 mm inside dia best quality uPVC B-grade rain water down pipe having specific gravity 1.35 - 1.45, wall thickness 2.5 - 3.0 mm, 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 sockets, bends, of uPVC Pipe with all accessories such as Round grating / domed roof grating bands, sockets etc. approved and accepted by the Engineer (length: 6000 mm each).	m	933.40
7.08.05.04	Supplying 100mm dia (inside) best quality PVC rain water down 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.	m	387.76
7.08.06	Supplying, fitting and fixing 5.49m long 100mm dia (inner) PVC "B" class pipe water grade (LIRA/AZIZ/ NATIONAL POLYMER brand or equivalent) with all HCl fittings and specials like plain bend, tees, reducing sockets, junctions, door bends, 100mm dia cowls, anti-siphon (MAANCO BRAND) including gasket and cement joints, PVC solution, making holes in walls and mending good the damages etc. all complete as per direction of the E-I-C.	each	6,271.77
7.08.07	Supplying, fitting and fixing of 5.49m long 100mm dia H.C.I. soil pipe (min. weight 25 Kg. per piece of 1.83 m) with all fittings and specials like plan bend, Tees, reducing sockets, junctions, door bends, 100mm dia cowls, ant siphon including gasket and cement joints making holes in walls and mending good the damages etc. all complete as per direction of the E-I-C. The rate is inclusive of 100mm thick Cement Concrete (1:3.6) all around the soil pipe under ground in/c. necessary earth cutting.	each	13,035.84
7.08.08	Supplying 100mm dia (inside) cast iron rain water down pipe, fitted and fixed in position with sockets head and shoes, bends, clamps and nails etc. all complete in all floors as per direction of the E-I-C.	m	2,046.53
7.08.09	Supplying, fitting and fixing 3.66m long Ventilation pipe with all fittings and specials like 50mm plain bends, tees, 50mm dia cowls etc. including gasket with cement joints and mending good the damages etc. all complete as per direction of the E-I-C.		
7.08.09.01	1.83m long 50mm dia H.C.I. ventilation pipe	each	2,498.92
7.08.09.02	3.66m long 50mm dia PVC best quality Ventilation Pipe (B.S. 3505)	each	2,051.20
7.08.10	Painting H.C.I. pipes in 2 coats (100mm to 50mm dia) with approved anti-corrosive paint over a coat of priming including cleaning the rust with sand paper, etc. all complete as per direction of the E-I-C.	m	61.20
7.08.11	Supplying, fitting, fixing and laying varoius RCC pipe having 1.83 meter in length over 100mm thick Cement Concrete (1:3.6) at base and sides including single layer brick flat soling and gasket with cement mortar joints, cutting and filling trenches up to required depth etc. all complete in all respect as per type plan and direction of the E-I-C. All other remaining costs like gasket, cement mortar, etc.		
7.08.11.01	R.C.C pipe of 150 mm dia with thickness 40mm	m	673.40
7.08.11.02	R.C.C pipe of 225 mm dia with thickness 40mm	m	1,030.99
7.08.11.03	R.C.C pipe of 300 mm dia with thickness 50mm	m	1,508.28

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.08.11.04	R.C.C pipe of 375 mm dia with thickness 50mm	m	1,862.41
7.08.12	Supplying, fitting and fixing 125mm dia Stainless steel floor Gratings on floor drains with cement mortar (1:4) including making holes in walls or floors and mending good the damages etc. all complete as per direction of the E-I-C.	each	166.69
7.08.13	Supplying, fitting and fixing 62mm dia Stainless steel floor Gratings on floor drains with cement mortar (1:4) including making holes in walls or floors and mending good the damages etc. all complete as per direction of the E-I-C.	each	187.46
7.08.14	Supplying, fitting and fixing plastic grating with hinged cover size 150 x 150 mm on floor 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.	each	53.86
7.08.15	Supplying, fitting and fixing 100mm dia C.I. gratings at the inlet of rain water down pipes etc. all complete as per specifications and drawings, directions of the E-I-C.	each	144.66
7.08.16	Supplying, fitting and fixing 125mm dia C.I. Gratings in traps or in drains with cement mortar (1:4) including making holes in walls or floors and mending good the damages etc. all complete as per direction of the E-I-C.	each	215.42
7.08.17	Supplying, fitting and fixing 100mm dia C.I. Trap (Siphon trap or 'P' trap) including making holes in walls and floors and mending good the damages etc. all complete as per direction of the E-I-C.	each	630.12
7.08.18	Supplying, fitting and fixing 40mm dia and 600mm long GI spout in floor or wherever required in/c cutting grooves in wall and floors etc. and mending damages properly etc. all complete as per specifications and directions of the E-I-C	each	382.55

Section-9: Water supply GI, MS Pipe & fittings

7.09.01	Supplying, fitting and fixing GI pipe confirming to the 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: minimum Yield Strength 188 MPa, minimum Tensile Strength 313 MPa and marking for a) Manufacturer; b) Materials; c) Wall thickness; d) Nomal outside dia; e) Intended use etc. on the body of the pipe as per British standard BS-729 having 80 micron galvanization and hydrostatic test pressure 50kg/cm2 (710 psi) with all general special fittings such as bends, elbows, sockets, reducing sockets, Tees, 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 holes in floors and walls and mending good the damages etc. all complete in all respects as per direction of the E-I-C. (Pipe manufactured by National Tubes Limited under Steel & Engineering Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)		
7.09.01.01	100mm dia GI pipe wall thickness 5mm	m	3,346.69
7.09.01.02	100mm dia GI pipe wall thickness 4mm	m	2,889.53
7.09.01.03	100mm dia GI pipe wall thickness 3.65mm	m	2,111.24
7.09.01.04	75~80mm dia GI pipe wall thickness 3.65mm	m	2,021.63
7.09.01.05	75~80mm dia GI pipe wall thickness 3.25~3.2mm	m	1,498.75
7.09.01.06	75~80mm dia GI pipe wall thickness 2.90mm	m	1,511.63
7.09.01.07	62~65mm dia GI pipe wall thickness 4mm	m	1,754.15
7.09.01.08	62~65mm dia GI pipe wall thickness 3.25~3.2mm	m	1,320.69
7.09.01.09	62~65mm dia GI pipe wall thickness 2.90mm	m	1,395.46
7.09.01.10	50mm dia GI pipe wall thickness 3.65mm	m	1,173.01
7.09.01.11	50mm dia GI pipe wall thickness 2.90mm	m	855.17
7.09.01.12	50mm dia GI pipe wall thickness 2.65mm	m	936.78
7.09.01.13	40mm dia GI pipe wall thickness 3.25~3.2mm	m	938.60
7.09.01.14	40mm dia GI pipe wall thickness 2.90mm	m	738.04
7.09.01.15	40mm dia GI pipe wall thickness 2.65mm	m	782.05
7.09.01.16	32mm dia GI pipe wall thickness 3.25mm	m	735.93

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1	2	3	4
7.09.01.17	32mm dia GI pipe wall thickness 2.65mm	m	622.12
7.09.01.18	32mm dia GI pipe wall thickness 2.35~2.3mm	m	628.79
7.09.01.19	25mm dia GI pipe wall thickness 2.9mm	m	621.43
7.09.01.20	25mm dia GI pipe wall thickness 2.65mm	m	430.25
7.09.01.21	25mm dia GI pipe wall thickness 2.35~2.3mm	m	459.98
7.09.01.22	20mm dia GI pipe wall thickness 2.65mm	m	445.58
7.09.01.23	20mm dia GI pipe wall thickness 2.35~2.3mm	m	360.52
7.09.01.24	20mm dia GI pipe wall thickness 2.10~2.2mm	m	362.41
7.09.01.25	12~15mm dia GI pipe wall thickness 2.65mm	m	356.93
7.09.01.26	12~15mm dia GI pipe wall thickness 2.35~2.3mm	m	327.31
7.09.01.27	12~15mm dia GI pipe wall thickness 2.00mm	m	276.35
7.09.02	Cost for concealing of GI pipe work (12mm and 20mm dia) in brick wall by cutting wall, lintel, beam etc. by any means carefully without damaging the structure and filling the grooves after laying of pipe with Cement Concrete (1:2:4) including cost of scaffolding etc. all complete in all respects as per direction of the E-I-C.	m	286.80
7.09.03	Supplying, fitting and fixing best quality G.M. Pit valve of brass fittings with leak proof and fitted selected tape etc. all complete in all respects as per direction of the E-I-C.		
7.09.03.01	50mm dia peet valve	each	1,677.74
7.09.03.02	40mm dia peet valve	each	1,293.06
7.09.03.03	30mm dia peet valve	each	1,049.42
7.09.03.04	25mm dia peet valve	each	703.21
7.09.03.05	20mm dia peet valve	each	574.98
7.09.03.06	12mm dia peet valve	each	491.63
7.09.04	Supplying, fitting and fixing best quality G.I. Union of leak proof, fitted with sealant, Teflon tape etc. all complete in all respects as per direction of the E-I-C.		
7.09.04.01	12 mm dia G.I. Union	each	160.84
7.09.04.02	20 mm dia G.I. Union	each	202.37
7.09.04.03	25 mm dia G.I. Union	each	240.97
7.09.04.04	32 mm dia G.I. Union	each	306.94
7.09.04.05	40 mm dia G.I. Union	each	396.84
7.09.04.06	50 mm dia G.I. Union	each	499.75
7.09.04.07	62 mm dia G.I. Union	each	858.80
7.09.04.08	75 mm dia G.I. Union	each	1,102.47
7.09.04.09	100 mm dia G.I. Union	each	1,470.27
7.09.05	Supplying, fitting and fixing best quality G.I. gate valve of brass fittings, leak proof, fitted with sealant, Teflon tape etc. all complete in all respects as per direction of the E-I-C.		
7.09.05.01	12 mm dia Brass gate valve	each	407.11
7.09.05.02	20 mm dia Brass gate valve	each	640.19
7.09.05.03	25 mm dia Brass gate valve	each	764.43
7.09.05.04	32 mm dia Brass gate valve	each	1,066.28
7.09.05.05	40 mm dia Brass gate valve	each	1,163.03
7.09.05.06	50 mm dia Brass gate valve	each	1,950.04

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1	2	3	4
7.09.05.07	62 mm dia Brass gate valve	each	3,841.47
7.09.05.08	75 mm dia Brass gate valve	each	5,124.98
7.09.05.09	100 mm dia Brass gate valve	each	8,309.85
7.09.06	Supplying, fitting and fixing best quality G.I. Check valve of brass fittings, threaded joint, leak proof with sealant, Teflon tape etc. all complete in all respects as per direction of the E-I-C.		
7.09.06.01	12 mm brass check valve	each	448.16
7.09.06.02	20 mm brass check valve	each	530.74
7.09.06.03	25 mm brass check valve	each	758.15
7.09.06.04	32 mm brass check valve	each	1,066.28
7.09.06.05	40 mm brass check valve	each	1,231.44
7.09.06.06	50 mm brass check valve	each	1,950.04
7.09.06.07	62 mm brass check valve	each	3,294.19
7.09.06.08	75 mm brass check valve	each	4,509.29
7.09.06.09	100 mm brass check valve	each	7,216.70
7.09.07	Supplying, fitting and fixing best quality G.I. Float valve with brass fittings, threaded joint Pit valve with sealant, Teflon tape, leak proof etc. all complete in all respects as per direction of the E-I-C.		
7.09.07.01	12 mm brass Float valve	each	426.27
7.09.07.02	20 mm brass Float valve	each	554.00
7.09.07.03	25 mm brass Float valve	each	619.96
7.09.07.04	32 mm brass Float valve	each	1,022.51
7.09.07.05	40 mm brass Float valve	each	1,323.11
7.09.08	Supplying, Installation, fitting and fixing MS pipe of different size with necessary wrapping tape and primer conforming to the standard and marking for a) Manufacturer; b) Materials; c) Wall thickness; d) Normal outside dia; e) Intended use etc. on the body of the pipe as per standard with all general special fittings such as bends, elbows, sockets, reducing sockets, Tees, unions, jam-nuts etc. Cutting and cleaning the pipe, applying coal tar. Wrapping the pipes with necessary tape etc. including cutting trenches where necessary and filling the same with sand duly rammed and fixing in walls with holder bats and making holes in floors and walls and mending good the damages etc as per specification of Titas Gas T and D co. Ltd. all complete in all respects as per direction of the E-I-C. (Pipe manufactured by National Tubes Limited under Steel & Engineering Corporation, Ministry of Industries, Government of Bangladesh shall be given priority)		
7.09.08.01	75mm dia MS pipe weight minimum 8.30 kg/m, standard test pressure 176 kg/m ² , wall thickness 4.00mm	m	1,915.49
7.09.08.02	50mm dia MS pipe weight minimum 5.44 kg/m, standard test pressure 176 kg/m ² , wall thickness 4.00mm	m	1,201.05
7.09.08.03	25mm dia MS pipe weight minimum 2.50 kg/m, standard test pressure 50 kg/m ² , wall thickness 2.90mm	m	662.67
7.09.08.04	20mm dia MS pipe weight minimum 1.68 kg/m, standard test pressure 50 kg/m ² , wall thickness 2.65mm	m	504.22
7.09.09	Providing Butt welding joints with pipes to Tees, Elbows, Saddles, end caps etc. above or below ground i/c. cutting and V-leveling in each end of the pipe, grinding by machine etc. as per specification of Titas Gas T and D co. Ltd. all complete in all respects as per direction of the E-I-C.		
7.09.09.01	75mm N.D (88.90mm O.D)	each	249.03
7.09.09.02	50mm N.D (60.30mm O.D)	each	186.77
7.09.09.03	25mm N.D (33.40mm O.D)	each	132.30
7.09.09.04	20mm N.D (26.70mm O.D)	each	124.52

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.09.10	Supplying, fitting and fixing following materials including carriage to the work site from Titas Gas store etc. as per specification of Titas Gas T and D co. Ltd. all complete in all respects as per direction of the E-I-C.		
7.09.10.01	50mmx50mmx50mm (N.D) equal Tee	each	281.82
7.09.10.02	50mmx50mmx25mm (N.D) reducing Tee	each	312.40
7.09.10.03	25mmx25mmx25mm (N.D) equal Tee	each	187.65
7.09.10.04	50mmx90 degree elbow	each	235.00
7.09.10.05	25mmx90 degree elbow	each	85.96
7.09.10.06	50mmx25mm 45 degree elbow	each	115.51
7.09.10.07	50mmx25mm reducer	each	125.79
7.09.10.08	20mm plug, socket	each	278.68
7.09.10.09	50mmx20mm saddle	each	246.56
7.09.10.10	50mm dia end cap	each	119.36
7.09.10.11	25mm dia end cap	each	106.51
7.09.11	Supplying, welding, fitting and fixing of different size Valve Tee/Service Tee to connect the pipe line with the Titas Gas main gas pipe line etc. as per specification of Titas Gas T and D co. Ltd. all complete in all respects as per direction of the E-I-C.		
7.09.11.01	50mmx50mm Valve Tee	each	21,394.30
7.09.11.02	50mmx25mm Valve Tee	each	3,082.64
7.09.11.03	50mmx25mm service Tee	each	5,195.85
7.09.11.04	25mmx25mm service Tee	each	3,229.24
7.09.12	Supplying, fitting and fixing of Gas burner (double burner) of standard size made with Stainless steel sheet with all other accessories as connection pipe, Key, burner and all other facilities of approved best quality etc. all complete in all respects as per direction of the E-I-C.	each	4,806.65
7.09.13	Supply & Installation of dynamic Pressure Reducing valve of brass body, screwed end type, shall be used with building water supply system (where high pressure reduction is necessary). Valve body shall be made with hot pressed brass, seat of stainless steel ANSI304. Shall be suitable for 80°C. Initial pressure range shall be 69-380 kPa (10-55 psi), adjustable final pressure range shall be 69-241 kPa (10-35 psi), including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction of the Engineer-in-Charge & approval of concern Project Director or authority. Country of Origin: China / Local or their licensed manufacturing units.		
7.09.13.01	12mm dia pressure reducing valve	each	4,440.43
7.09.13.02	20mm dia pressure reducing valve	each	4,869.93
7.09.13.03	25mm dia pressure reducing valve	each	5,877.04
7.09.13.04	40mm dia pressure reducing valve	each	6,995.22
7.09.13.05	50mm dia pressure reducing valve	each	11,764.17

Section-10: Water Tank (PVC, Stain less steel, Fiber)

7.10.01	Supply and installation of food-grade 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 in all respects as per direction of the E-I-C..		
7.10.01.01	150 liter capacity	each	4,376.83
7.10.01.02	300 liter capacity	each	6,855.10

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.10.02	Supplying, fitting and fixing plastic overhead Water Tank of different capacity.		
7.10.02.01	Supplying, fitting and fixing plastic overhead Water Tank of 500 litres capacity made with 25mm thick plastic composed sheet with plastic cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	7,402.83
7.10.02.02	Supplying, fitting and fixing plastic overhead Water Tank of 1000 litres capacity made with 25mm thick plastic composed sheet with plastic cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	12,950.00
7.10.02.03	Supplying, fitting and fixing plastic overhead Water Tank of 1500 litres capacity made with 25mm thick plastic composed sheet with plastic cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	18,497.16
7.10.02.04	Supplying, fitting and fixing plastic overhead Water Tank of 2000 litres capacity made with 25mm thick plastic composed sheet with plastic cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	24,044.33
7.10.02.05	Supplying, fitting and fixing plastic overhead Water Tank of 2500 litres capacity made with 25mm thick plastic composed sheet with plastic cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	29,591.50
7.10.03	Supplying, fitting and fixing overhead Water Tank of different type.		
7.10.03.01	Supplying, fitting and fixing overhead Water Tank of 1800 litres capacity (Size : 1200mmx1200mmx1200mm) made with 16 gauge GI sheet including painting the tank with anticorrosive paint of approved colour and quality, providing GI cover on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	14,466.38
7.10.03.02	Supplying, fitting and fixing of 1800 litres capacity fibre glass spherical type water tank made of Johannes or other approved company as per specifications and drawings, painting the tank of approved colour and quality if necessary, providing cover (made of same material) on top with locking arrangements, providing inlet and outlet pipe with flanges and plug, jum nuts, 40mm dia ball cock, 12mm dia 1.12m long overflow pipe and with all other necessary fittings etc. all complete in all respects as per direction of the E-I-C.	each	19,372.03
7.10.03.03	Supplying, fitting and fixing of 500 litres capacity best quality cylindrical type stainless steel overhead water tank made of 0.50mm thick special brand SUS304# stainless steel including top cover with handle, cap with locking arrangement, inlet and outlet coupling, plastic ventilation system, stainless steel stand with anchoring arrangement with bolts and nuts and with all other necessary fixings etc. all complete and as per direction of the E-I-C.	each	11,911.88
7.10.03.04	Supplying, fitting and fixing of 1500 litres capacity best quality cylindrical type stainless steel overhead water tank made of 0.60mm thick special brand SUS304# stainless steel including top cover with handle, cap with locking arrangement, inlet and outlet coupling, plastic ventilation system, stainless steel stand with anchoring arrangement with bolts and nuts and with all other necessary fixings etc. all complete and as per direction of the E-I-C.	each	29,670.75
7.10.03.05	Supplying, fitting and fixing of 2000 litres capacity best quality cylindrical type stainless steel overhead water tank made of 0.70mm thick special brand SUS304# stainless steel including top cover with handle, cap with locking arrangement, inlet and outlet coupling, plastic ventilation system, stainless steel stand with anchoring arrangement with bolts and nuts and with all other necessary fixings etc. all complete and as per direction of the E-I-C.	each	38,229.23

Section-11: Inspection Pit, Septic Tank & Soak well

7.11.01	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 up to a depth of 700 mm etc. all complete and as per direction of the E-I-C (minimum sand F.M. 1:2).

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.11.01.01	Clear 450x450 mm and depth 600 to 675 mm average 525 mm for single 150 mm dia R.C.C pipes and 400 mm PVC pipe	each	4,593.80
7.11.01.02	Clear 520x525 mm and depth 675 to 825 mm average 750 mm for single 225 mm dia R.C.C pipes and 400 mm PVC pipe	each	6,843.23
7.11.01.03	Clear 600x600 mm and depth 750 to 900 mm average 825 mm for single 300 mm dia R.C.C pipes and 375 mm and 400 mm PVC pipe	each	9,508.39
7.11.01.04	Master-pit of Size: Clear 600x500 mm and average 750 mm depth for Septic tank.	each	4,907.09
7.11.02	Construction and placing of R.C.C inspection pit cover (100 mm thick RCC slab) in (1:2:4) (of item no-5.05.01.01) with 1% reinforcement (of item no-5.06.01.01) excluding M.H cover with locking/ unlocking arrangement including necessary earth work, side filling, shuttering, curing, cement plaster (1:4) (of item no-5.12.01) with neat finishing on edges and top etc. all complete and as per direction of the E-I-C.		
7.11.02.01	900 x 900 x 75 mm R.C.C pit cover	each	1,666.37
7.11.02.02	1025 x 1025 x 75 mm R.C.C pit cover	each	1,935.21
7.11.02.03	1100 x 1100 x 75 mm R.C.C pit cover	each	2,215.55
7.11.03	Construction and placing of R.C.C inspection pit cover (100 mm thick RCC slab) with supplying and provisions for placing, fitting, fixing 450 mm dia C.I Man-hole cover with locking/ unlocking arrangement including concrete (1:2:4)(of item no-5.05.01.01) with approx. 1% reinforcement (of item no-5.05.01.01) necessary earth cutting, or cleaning side filling, curing, etc. with minimum 12 mm cement plaster (1:4)(of item no-5.05.01.01) and neat cement finishing on edges and top etc. all complete and as per direction of the E-I-C.		
7.11.03.01	950 x 950 x 75 mm R.C.C pit cover with 450 mm dia C.I manhole cover.	each	2,780.79
7.11.03.02	1025 x 1025 x 75 mm R.C.C pit cover with 450 mm dia C.I manhole cover.	each	2,986.70
7.11.03.03	1100 x 1100 x 75 mm R.C.C pit cover with 450 mm dia C.I manhole cover.	each	3,278.12
7.11.04	Construction of Septic Tank with brick masonry works in main and partition walls in cement mortar (1:6) as per standard drawing enumerated in Appendix-6 (Typical septic tank design) over a single layer brick flat soling and 150mm thick cement concrete flooring (1:2:4), in/c 20mm thick cement plaster (1:4) to inside of walls with neat cement finishing, 25mm thick patent stone (1:2:4) flooring with neat cement finishing including supplying fitting and fixing of two RCC Tees and providing 450mm dia water sealed heavy type C.I. M.H. cover with necessary locking arrangements, 100mm thick RCC (1:2:4) top slab & 125mm thick RCC (1:2:4) wall around inside of the main wall of septic tank with minimum 1% reinforcement including centering, shuttering, fabricating, casting, curing etc. complete up to required depth. The item is inclusive of 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 the approved plan and direction of the E-I-C.		
7.11.04.01	For 200 users with 3 manhole covers.	each	247,760.91
7.11.04.02	For 100 users with 3 manhole covers.	each	171,890.67
7.11.04.03	For 50 users with 3 manhole covers.	each	118,448.74
7.11.04.04	For 30 users with 2 manhole covers.	each	78,060.78
7.11.04.05	For 20 users with 2 manhole covers.	each	71,402.11
7.11.04.06	For 10 users with 2 manhole covers.	each	33,776.94
7.11.05	Construction of soak well with 250mm thick solid brick work (1:6) and 250mm honey comb brick work (1:6) as per design over RCC (1:2:4) well curb with 1.5% reinforcement upto the depth as per drawing with 100mm dia water sealed heavy type C.I. manhole cover with all locking arrangements, filling the well upto the required depth with graded khoa and sand including supplying and fabricating MS Rod, casting, curing etc. The item is inclusive of necessary earth work in excavation, side filling and bailing out water etc. all complete as per drawing, design and direction of the E-I-C.		
7.11.05.01	For 200 users (Internal dia 1800mm)	each	120,042.73
7.11.05.02	For 100 users (Internal dia 1500mm)	each	107,280.51
7.11.05.03	For 50 users (Internal dia 1200mm)	each	92,891.82

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.11.05.04	For 30 users (Internal dia 1050mm)	each	80,600.20
7.11.05.05	For 20 users (Internal dia 1050mm)	each	80,600.20
7.11.05.06	For 10 users (Internal dia 900mm)	each	57,865.38
7.11.06	Construction of soak or leaching pit including supplying and fitting of 760mm dia 38mm thick 305mm height RCC (1:2:4) ring with 3 layers of No. 10 BWG wire as reinforcement placing in position one above another at equal spacing, placing in position, filling interstices with local sand, placing pit, jointing with 1:6 sand-cement mortar, making hole to RCC ring for inlet pipe and vent pipe including all fittings and jointing including labour, site cleaning, all complete as per drawing and direction of E-I-C.	per ring	392.79
7.11.07	Manhole Cover		
7.11.07.01	CI Manhole Cover		
7.11.07.01.01	Supplying, fitting and fixing best quality heavy type CI manhole cover round perforated/solid plate made with locking & un-locking arrangement. All other remaining cost including all accessories; their carriages, wages of labor, technician and incidental charges etc. all complete as per direction & approval of the Engineering –in- charge. Size: 600 mm dia with locking arrangement, Brand: MANCO or equivalent	each	4,912.87
7.11.07.01.02	Supplying, fitting and fixing best quality heavy type CI manhole cover round perforated/solid plate made without locking arrangement. All other remaining cost including all accessories; their carriages, wages of labor, technician and incidental charges etc. all complete as per direction & approval of the Engineering-in-charge. Size: 600 mm dia with unlocking arrangement, Brand: MANCO or equivalent	each	3,600.02

Section-12: Two-pit Latrine

7.12.01	Construction of two-in-pit latrine		
7.12.01.01	Manufacturing and supplying of RCC ring of 40mm wall thickness and 1m internal diameter and 0.3m of height including casting, curing for requisite period, fixing in position etc. all complete as per direction of the E-I-C. (The cost is inclusive of reinforcement and its fabrication)	each	461.72
7.12.01.02	Manufacturing, supplying, fitting and fixing white porcelain 450mm long pan (BISF standard) with PVC trap fixed properly to make it fully leak proof, etc. all complete as per direction of the E-I-C.	each	1,654.15
7.12.01.03	Construction of Y-junction pit mortar for twin pit sanitary latrine, with depth 375mm and octagonal in shape with each arm of 150mm in length with 125mm brick work in cement mortar (1:4), 50mm thick RCC (1:2:4) top slab having reinforcement with 10 BWG wire @125mm c/c both way including necessary earth excavation, side filling, one layer of brick flat soling work, side filling and one layer brick flat soling on a 75mm thick CC (1:3:6) base for making invert channel (shape should be from one inlet to two outlet with one CC separator) including 12mm thick Cement Plaster (1:2) with neat cement finishing, casting, curing, reinforcement fabrication etc. all complete as per drawing and direction of the E-I-C. (The item is inclusive of the cost of reinforcement)	each	4,913.84
7.12.01.04	Construction of Y-junction pit mortar for twin pit sanitary latrine, with depth 300mm and octagonal in shape with each arm of 150mm in length with 75mm thick CC (1:2:4) wall and 50mm thick CC (1:2:4) base and with 50mm thick RCC (1:2:4) top slab having reinforcement with 10 BWG wire @125mm c/c both way including necessary earth excavation, side filling and one layer brick flat soling on a 75mm thick CC (1:3:6) base for making invert channel (shape should be from one inlet to two outlet with one CC separator) including 12mm thick Cement Plaster (1:2) with neat cement finishing, casting, curing, reinforcement fabrication etc. all complete as per drawing and direction of the E-I-C. (The item is inclusive of the cost of reinforcement)	each	660.12

Section-13: Bathtub

7.13.01	Bathtub: Supplying, installation and commissioning of foreign made acrylic bathtub consists of hand grips, head rest, slip resistant surface and pop-up waste including fitting and fixing of bathtub by specified nuts & bolts, making holes wherever required with preparing the base using cement concrete with wire mesh or rods (if necessary), mending good the damages etc., including cost of all necessary accessories, their carriages, wages of labour, plumber and incidental charges etc. all complete, as per direction & approval of the Engineer-in-Charge.		
7.13.01.01	Size: 1500x750x580 mm, Model: TOTO- PAY1570D/DB501-2DR or PAY 1570DH/DB501-2DR or Equivalent.	each	115,687.82

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1	2	3	4

Section-20: Fire Protection System (Extinguisher)

7.20 Fire Extinguisher

7.20.01 Dry Chemical Powder Type:

Supply & fixing the following capacities multi purpose ABC&E dry chemical powder stored pressure type with manometer system Fire Extinguisher suitable for repeated use complete with wall bracket, Cartridge, easy refilling system etc. as per sample accepted/approved by the Engineer.

7.20.01.01	1 kg.Dry Chemical Powder type Fire Extinguisher	each	1,567.62
7.20.01.02	2 kg.Dry Chemical Powder type Fire Extinguisher	each	2,162.40
7.20.01.03	3 kg. Dry Chemical Powder type Fire Extinguisher	each	2,333.09
7.20.01.04	5 kg. Dry Chemical Powder type Fire Extinguisher	each	3,481.30
7.20.01.05	6 kg. Dry Chemical Powder type Fire Extinguisher	each	4,141.42

7.20.02 Carbon-Di-Oxide Type:

Supply & fixing the following capacities Carbon-di-Oxide type Fire Extinguisher suitable for repeated use complete with wall bracket, discharge nozzle etc. as per sample accepted/approved by the Engineer.

7.20.02.01	3 kg. Carbon-di-Oxide type Fire Extinguisher	each	5,065.59
7.20.02.02	5 kg. Carbon-di-Oxide type Fire Extinguisher	each	8,390.20

7.20.03 Accessories of Dry Chemical Powder Type & Carbon-Di-Oxide Type Fire Extinguishers: Providing & fixing the following parts of fire extinguisher as per sample accepted/approved by the Engineer.

7.20.03.01	Trigger	each	237.38
7.20.03.02	Hose pipe	each	402.74
7.20.03.03	Nipple with nozzle	each	204.04
7.20.03.04	Cartridge	each	1,257.56
7.20.03.05	ABC & E powder	kg	270.72
7.20.03.06	Carbon-Di-Oxide Recharge	kg	322.73

Section-21: Fire Protection System (Hydrant)

7.21 Hydrant System

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.21.01	FIRE WATER PUMP (Engine Driven): Supply & Installation of Diesel Engine Driven Fire Pump complete with all related & essential accessories. The pump shall be designed and installed in accordance with globally accepted international standard. Each unit shall be tested and UL listed/FM approved Type: Pumps shall be of the non-overloading, centrifugal, volute type, horizontally split, double suction type with suction and discharge connections in the lower half of the casing, allowing removal of the rotating element 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. Casing: Casing of horizontally split pumps shall be capable of at least withstanding a hydrostatic test pressure of 150% of pump's shut-off head plus 15 kg/cm². Pump casing shall be cast iron / ductile iron, precision making for best performance and long term duty. Impeller: Impellers shall be cast bronze SAE 40 / relavent NEMA and dynamically balanced, accurately keyed to the shaft and fixed in an axial position by shaft sleeves and separate snap rings. Impeller shall be fully protected against damage from reverse rotation. Shaft : Shaft of pump with stuffing box shall be of stainless steel, chrome iron extending through the stuffing boxes. Shaft shall be designed with high safety precautions to easily withstand the torsional loads with other stresses. Shaft sleeves shall be keyed to the shafts and extend through the stuffing box. "O" ring or gaskets shall be provided at sleeve ends to protect the shafts from water corrosion. And will be designed, no dismantling of the pump casing will be required to replace the sleeves. Bearing: Bearings of the pump shall be heavy duty with anti-friction grease lubricated. The bearing shall be self-sealed and housed in malleable iron housing aligned to a bearing bracket, and shall be removable without dismantling any rotating elements or pumps. Diesel Engine: The diesel engine brake horsepower shall be listed by UL / Approved by FM 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. 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. Cooling System & Engine Exhaust Pipe: The engine shall be provided with close circuit cooling water circulation system shall be provided. The exhaust shall be galvanized steel sized in accordance with the manufacturer's recommendations. The exhaust pipe shall be galvanized steel sized in accordance with the manufacturer's recommendations. The exhaust pipe shall be as short as possible. Fuel Tank: The fuel tank shall be as per manufacturer's recommendation with rigid frame. Fuel tank shall have capacity 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 sightglass. Controller: The controller shall be UL listed / FM approved, 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 (min) without losing 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. Country of Origin : USA/ EU Countries/ Japan Or their Liscenced manufacturing units located Globally.		
7.21.01.01	EFP Type - I : (up to 6 storied building) 500 US GPM of water against a head of 80 Meter handling capacity pump-motor set with base plate and accessories.	set	2,670,088.16
7.21.01.02	EFP Type - II : (7 to 10 storied building) 500 US GPM of water against a head of 90 Meter handling capacity pump-motor set with base plate and accessories.	set	3,336,876.73
7.21.01.03	EFP Type - III : (11 to 15 storied building) 750 US GPM of water against a head of 100 Meter handling capacity pump-motor set with base plate and accessories	set	3,849,678.17

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.21.02	FIRE WATER PUMP (Motor Driven):		
7.21.02.01	MFP Type - I (up to 6 storied building) Supply & installation of electrically driven centrifugal type end suction, vertical discharge Fire Water Pump manufactured according to globally accepted standard shall be complete with skid mounted, coupled with motor, safety cover etc. Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm / Class F insulation / Encloser IP55 [as per pump manufacturer's recommendation / performance curve of the pump]. The pump shall have a capacity to handle 350 US GPM of water against a head of 80 Meter. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	660,062.98
7.21.02.02	MFP Type - II (7 to 10 storied building) Supply & installation of electrically driven centrifugal type end suction, vertical discharge Fire Water Pump manufactured according to globally accepted standard shall be complete with skid mounted, coupled with motor, safety cover etc. Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm / Class F insulation / Encloser IP55 [as per pump manufacturer's recommendation / performance curve of the pump]. The pump shall have a capacity to handle 500 US GPM of water against a head of 90 Meter. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	692,921.55
7.21.02.03	MFP Type - III (11 to 15 storied building) Supply & installation of electrically driven centrifugal type end suction, vertical discharge Fire Water Pump manufactured according to globally accepted standard shall be complete with skid mounted, coupled with motor, safety cover etc. Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm / Class F insulation / Encloser IP55 [as per pump manufacturer's recommendation / performance curve of the pump]. The pump shall have a capacity to handle 750 US GPM of water against a head of 100 Meter. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	791,497.27
7.21.03	JOCKEY PUMP (Pressure Maintenance Pump):		
7.21.03.01	JP Type - I (up to 6 storied building): Supply, installation of multistage jockey pump manufactured according to globally accepted standard or Fire Hydrant system to keep a certain pressure in water distribution system. Capacity of the pump shall be 15 US GPM against a Head of 80 meter of water. Pump shall be complete with motor suitable to meet performance curve of the pump. The Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	285,475.27
7.21.03.02	JP Type - II (for 7 to 10 storied building) Supply, installation of multistage jockey pump manufactured according to globally accepted standard or Fire Hydrant system to keep a certain pressure in water distribution system. Capacity of the pump shall be 15 US GPM against a Head of 90 meter of water. Pump shall be complete with motor suitable to meet performance curve of the pump. The Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	307,161.93
7.21.03.03	JP Type - III (for 11 to 15 storied building) Supply, installation of multistage jockey pump manufactured according to globally accepted standard or Fire Hydrant system to keep a certain pressure in water distribution system. Capacity of the pump shall be 20 US GPM against a Head of 100 meter of water. Pump shall be complete with motor suitable to meet performance curve of the pump. The Motor shall be 420V/3 phase/ 50 HZ/ 2900 rpm. Country of Origin : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore / Or their Licensed manufacturing units located Globally.	set	364,335.84

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.21.04	Pump Control Panels for Motor Driven Fire & Jockey Pumps: Supply, installation of 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. Enclosure of the panel shall be made of 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 locally assembled in accordance with Standard Code of Practice as NEMA / IEC / VDE / BS standards comprising of required capacity. Country of Origin of Main components (MCCB / MCB / Magnetic Contactor / Overload) : Australia / USA / UK / Germany / Japan / Italy / Holland / Malaysia / Singapore or their Licensed manufacturing units located Globally.		
7.21.04.01	Controller for FP Type - I	set	106,599.78
7.21.04.02	Controller for FP Type - II	set	126,314.92
7.21.04.03	Controller for FP Type - III	set	165,745.21
7.21.04.04	Controller for JP Type - I	set	32,339.41
7.21.04.05	Controller for JP Type - II	set	38,911.12
7.21.04.06	Controller for JP Type - III	set	46,008.57
7.21.05	Fire Brigade Connection:		
7.21.05.01	Fire Brigade Connection : 2 - Way Supply and installation of 2 - way Fire Brigade Connection complete in all respect with all accessories. The unit shall have two Inlet connections of 63mm male instantaneous with non-return valve and having 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 ANSI-B-16B-16.5B. or equivalent and Shall be suitable to withstand pressure of 20kg/cm². It shall be manufactured according to BS standard & suitable for using with fire service & civil defense department of Bangladesh. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	set	52,705.15
7.21.05.02	Fire Brigade Connection : 4 - Way Supply and installation of 4 - way Fire Brigade Connection complete in all respect with all accessories. The unit shall have two Inlet connections of 63mm male instantaneous with non-return valve and having 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 100mm dia shall be as per ANSI-B-16B-16.5B. Or equivalent and Shall be suitable to withstand pressure of 20kg/cm². It shall be manufactured according to BS standard & suitable for using with fire service & civil defense department of Bangladesh. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	set	78,203.40
7.21.06	Fire Hydrant Unit (40mm dia): Each 40mm dia Fire Hydrant Unit shall be complete with the following Components and accessories.		
7.21.06.01	Hose Angle Valve (Landing valve): 40mm dia Supply and installation of Hose Angle valve / Landing valve of 40mm shall be made with brass / bronze with instantaneous female outlet. The valve shall be UL Listed /FM approved with working pressure not less than 10kg/cm². Inlet must be threaded end type, shall be installed inside the hydrant cabinet.	set	20,858.62

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
7.21.06.02	Fire Hose : 40mm dia Supply & installation of Fire Hose of 40mm dia 30 meter long suitable to install inside the Hydrant cabinet. The hose shall confirming to BS 6391 . The Hose shall be UL Listed /FM approved & Burst Pressure shall be not less that 600 psi and working pressure 200 psi, 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 sthrength. Hose shall be 30 meter long in a single length and shall be with male coupling in one end, female in the other. Couplings shall be binded with hose with copper wire properly. Instantaneous couplings shall be made with bronze / alluminium alloy, polished / hard anodized to confirm BS 336.	set	28,521.24
7.21.06.03	Jet / Spray Nozzle : 40mm dia Supply & installation of Jet / Spray Nozzle having 40mm dia male instantaneous coupling. 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 or Alluminium & Nylon. Working pressure shall be not less than 7Kg / Cm ² . Flow shall be not less than 100 lpm @ 7kg / cm ² . Nozzle shall be install inside the cabinet.	set	12,038.07
7.21.06.04	Steel Cabinet for 40mm Dia Hydrnt Unit: Fabrication, Supply & Installation of Hydrant cabinet of suitable size (as per site measurement and requirement / Recommendation of Engineering in Charge) to accommodate Landing valve, Hose, Nozzle and coupling. The cabinet shall be with swing type door with breakable tempered glass. The Cabinet shall be made with 16 SWG sheet steel, Powder coated of red color.	set	14,079.24
7.21.07	Fire Hydrant Unit (63mm dia): Each 63mm dia Fire Hydrant Unit shall be complete with the following Components and accessories.		
7.21.07.01	Hose Angle Valve (Landing valve): 63mm dia Supply and installation of Hose Angle valve / Landing valve of 40mm shall be made with brass / bronze with instantaneous female outlet. The valve shall be UL Listed /FM approved and working pressure shall not be less than 10kg/cm ² . Inlet shtall be threaded end type, shall be installed inside the hydrant cabinet.	set	25,761.12
7.21.07.02	Fire Hose : 63mm dia Supply & installation of Fire Hose of 40mm dia 30 meter long suitable to install inside the Hydrant cabinet. The hose shall confirming to BS 6391 . The Hose shall be UL Listed /FM approved & Burst Pressure shall be not less that 600 psi and working pressure 200 psi, 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 sthrength. Hose shall be 30meter long in a single length and shall be with male coupling in one end other end with female coupling. Couplings shall be binded with hose with copper wire properly. Instantaneous couplings shall be made with bronze / alluminium alloy, polished / hard anodized to confirm BS 336.	set	32,990.01
7.21.07.03	Jet / Spray Nozzle : 63mm dia Supply & installation of Jet / Spray Nozzle having 40mm dia male instantaneous coupling. 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 or Alluminium & Nylon. Working pressure shall be not less than 7Kg / Cm ² . Flow shall be not less than 100 lpm @ 7kg / cm ² . Nozzle shall be install inside the cabinet.	set	10,646.18
7.21.07.04	Steel Cabinet for 63mm Dia Hydrnt Unit: Fabrication, Supply & Installation of Hydrant cabinet of suitable size (as per site measurement and requirement / Recommendation of Engineering in Charge) to accommodate Landing valve, Hose, Nozzle and coupling. The cabinet shall be with swing type door with breakable tempered glass. The Cabinet shall be made with 16 SWG sheet steel, Powder coated of red color.	set	16,560.72
7.21.08	Pillar Hydrant:		
7.21.08.01	Pillar Hydrant : Single Headed Supply and installation of Cast Iron body Single Headed Pillar Hydrant complete with One (01) no. cast brass made controllable outlet of 65mm dia with female instantaneous outlet, Inlet shall be 80mm dia flanged end. The Hydrant shall be suitable to withstand test pressure of 300 psi (min). Color of the unit shall be red / approved by the manufacturer or as per code.	each	40,876.06

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1	2	3	4
7.21.08.02	Pillar Hydrant : Double Headed Supply and installation of Cast Iron body Double Headed Pillar Hydrant complete with Two (02) nos. cast brass made controllable outlet of 65mm dia with female instantaneous outlet, Inlet shall be 100mm dia flanged end. The Hydrant shall be suitable to withstand test pressure of 300 psi (min). Color of the unit shall be red / approved by the manufacturer or as per code.	each	67,162.92
7.21.09	Black Steel Pipe ERW, Schdule 20 Supply and Installation of ERW black steel pipe 20 schedule. The Pipe work shall include welding type Tee, Elbow, Reducer etc., and also hangers / supports etc. complete. Pipe work (over ground) shall be painted with red oxide primer. Underground pipes should be laid after wrapping with pvc tape after using approved primer. Pipe diameter and minimum wall thickness shall be as follows. Country of Origin: Japan / Korea / India /Australia or Equivalent.		
7.21.09.01	200 mm dia, Wall Thickness: 6.11mm, ERW, Schedule 20	mm	10,573.89
7.21.09.02	150 mm dia, Wall Thickness: 4.85mm, ERW, Schedule 20	mm	8,335.56
7.21.09.03	100 mm dia, Wall Thickness: 4.50mm, ERW, Schedule 20	mm	5,852.77
7.21.09.04	80 mm dia, Wall Thickness: 4.05mm, ERW, Schedule 20	mm	4,623.86
7.21.09.05	65 mm dia, Wall Thickness: 3.85mm, ERW, Schedule 20	mm	3,525.07
7.21.09.06	50 mm dia, Wall Thickness: 3.65mm, ERW, Schedule 20	mm	2,878.41
7.21.09.07	40 mm dia, Wall Thickness: 3.25mm, ERW, Schedule 20	mm	2,447.31
7.21.09.08	25 mm dia, Wall Thickness: 3.25mm, ERW, Schedule 20	mm	2,102.95
7.21.09.09	20 mm dia, Wall Thickness: 2.65mm, ERW, Schedule 20	mm	1,800.65
7.21.09.10	12 mm dia, Wall Thickness: 2.65mm, ERW, Schedule 20	mm	1,477.32
7.21.10	Black Steel Pipe ERW, Schdule 40 Supply and Installation of ERW black steel pipe 40 schedule. The Pipe work shall include welding type Tee, Elbow, Reducer etc., and also hangers / supports etc. complete. Pipe work (over ground) shall be painted with red oxide primer. Underground pipes should be laid after wrapping with pvc tape after using approved primer. Pipe diameter and minimum wall thickness shall be as follows. Country of Origin: Japan / Korea / India /Australia or Equivalent.		
7.21.10.01	200 mm dia, Wall Thickness: 8.2mm, ERW, Schedule 40	mm	11,284.95
7.21.10.02	150 mm dia, Wall Thickness: 7.1mm, ERW, Schedule 40	mm	10,142.78
7.21.10.03	100 mm dia, Wall Thickness: 6.0mm, ERW, Schedule 40	mm	8,233.04
7.21.10.04	80 mm dia, Wall Thickness: 5.5mm, ERW, Schedule 40	mm	6,465.25
7.21.10.05	65 mm dia, Wall Thickness: 5.2mm, ERW, Schedule 40	mm	4,171.72
7.21.10.06	50 mm dia, Wall Thickness: 3.9mm, ERW, Schedule 40	mm	3,093.96
7.21.10.07	40 mm dia, Wall Thickness: 3.7mm, ERW, Schedule 40	mm	2,662.86
7.21.10.08	25 mm dia, Wall Thickness: 3.4mm, ERW, Schedule 40	mm	2,360.56
7.21.10.09	20 mm dia, Wall Thickness: 2.9mm, ERW, Schedule 40	mm	1,887.40
7.21.10.10	12 mm dia, Wall Thickness: 2.8mm, ERW, Schedule 40	mm	1,564.07
7.21.11	OS & Y Valves: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.11.01	150 mm dia OS & Y Valve	each	40,936.59
7.21.11.02	100 mm dia OS & Y Valve	each	29,952.56

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7.21.11.03	80 mm dia OS & Y Valve	each	23,362.44
7.21.11.04	65 mm dia OS & Y Valve	each	16,716.40
7.21.11.05	50 mm dia OS & Y Valve	each	14,225.46
7.21.11.06	40 mm dia OS & Y Valve	each	9,290.43
7.21.12	Gate Valves: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.12.01	150 mm dia Gate Valve	each	35,785.61
7.21.12.02	100 mm dia Gate Valve	each	26,234.28
7.21.12.03	80 mm dia Gate Valve	each	20,503.75
7.21.12.04	65 mm dia Gate Valve	each	14,724.58
7.21.12.05	50 mm dia Gate Valve	each	12,558.55
7.21.12.06	40 mm dia Gate Valve	each	8,267.22
7.21.13	Globe Valves: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.13.01	150 mm Globe Valve	each	38,026.57
7.21.13.02	100 mm Globe Valve	each	28,045.45
7.21.13.03	80 mm Globe Valve	each	21,895.64
7.21.13.04	65 mm Globe Valve	each	15,651.19
7.21.13.05	50 mm Globe Valve	each	14,665.44
7.21.13.06	40 mm Globe Valve	each	11,346.72
7.21.14	Non-Return/Check Valves: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.14.01	150 mm Non-Return/Check Valve	each	40,017.80
7.21.14.02	100 mm Non-Return/Check Valve	each	32,218.49
7.21.14.03	80 mm Non-Return/Check Valve	each	23,785.66
7.21.14.04	65 mm Non-Return/Check Valve	each	20,096.30
7.21.14.05	50 mm Non-Return/Check Valve	each	17,488.65
7.21.14.06	40 mm Non-Return/Check Valve	each	11,246.83

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1	2	3	4
7.21.15	Y-Strainers: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.15.01	150 mm Y-Strainers	each	38,809.92
7.21.15.02	100 mm Y-Strainers	each	28,036.25
7.21.15.03	80 mm Y-Strainers	each	19,608.68
7.21.15.04	65 mm Y-Strainers	each	18,873.96
7.21.15.05	50 mm Y-Strainers	each	16,087.56
7.21.15.06	40 mm Y-Strainers	each	11,526.79
7.21.16	Foot Valve with Strainer: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.16.01	150 mm Foot Valve with Strainer	each	26,643.04
7.21.16.02	100 mm Foot Valve with Strainer	each	21,936.38
7.21.16.03	80 mm Foot Valve with Strainer	each	18,738.59
7.21.16.04	65 mm Foot Valve with Strainer	each	15,029.51
7.21.16.05	50 mm Foot Valve with Strainer	each	12,277.28
7.21.16.06	40 mm Foot Valve with Strainer	each	9,586.82
7.21.17	Flexible Joint: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.17.01	150 mm Flexible Joint	each	24,643.93
7.21.17.02	100 mm Flexible Joint	each	18,789.85
7.21.17.03	80 mm Flexible Joint	each	17,793.57
7.21.17.04	65 mm Flexible Joint	each	16,685.58
7.21.17.05	50 mm Flexible Joint	each	13,727.00
7.21.17.06	40 mm Flexible Joint	each	12,172.13
7.21.18	Ball Valves, Class: PN20: Supply & Installation of Valves & Fittings manufactured to confirm ANSI B16, ISO-9001 standard. Suitable to withstand a working pressure of 150 psi and complete in all respect with all accessories such as Flanges, Nut – Bolts, Gaskets etc. Valves 80mm dia and above shall be of Cast Iron body flanged end type, smaller than those shall be Brass / Bronze body Screwed end type. Country of Origin: USA / UK / Germany / Italy / Korea / Singapore / OR Licensed Manufacturing units located Globally.		
7.21.18.01	65 mm Ball Valve	each	12,001.26

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1	2	3	4
7.21.18.02	50 mm Ball Valve	each	8,547.17
7.21.18.03	40 mm Ball Valve	each	4,454.31
7.21.18.04	25 mm Ball Valve	each	3,803.71
7.21.18.05	20 mm Ball Valve	each	3,283.23
7.21.18.06	12 mm Ball Valve	each	2,451.25
7.21.19	Pressure Gauge: Supply and installation of 100mm dial type Pressure Gauges including supply of all accessories and consumable. The range shall be 0-250 psi. Country of Origin: Japan / Germany / EU / Korea or their Licensed manufacturing units located Globally.	each	6,703.15
7.21.20	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 Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.	each	9,989.01
7.21.21	Pressure Release Valve: Supply, installation and testing of Pressure Release valve of 50mm dia of cast iron / brass body with adjustable knob to adjust set pressure for release excess pressure from the system to safe the fire fighting system network to drain. The valve shall be installed at pump house in discharge header. The valve shall be suitable to withstand pressure of 12kg/cm ² . Inlet / outlet shall be flanged / threaded end type. Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.		
7.21.21.01	50 mm dia Pressure Release Valve	each	40,790.63
7.21.21.02	80 mm dia Pressure Release Valve	each	54,019.49
7.21.22	Auto Air-Vent Valve: Supply & Installation of Auto Air vent valve of 25mm dia of 25mm dia inlet BSP, bronze made with rubber ball and seat. The valve shall be suitable to release air from the fire hydrant pipes. Shall be suitable to withstand pressure up to 10kg/cm ² . Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.	each	10,646.18
7.21.23	Flow Switch: Supply & Installation of Flow Switch of leaf type suitable for installation within 65mm and 50mm dia water hydrant pipe. The flow switch 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 24V DC. The Flow Switch shall be UL Listed. Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.		
7.21.23.01	100 mm dia Flow-switch	each	26,418.29
7.21.23.02	80 mm dia Flow-switch	each	21,160.92
7.21.23.03	65 mm dia Flow-switch	each	17,217.89
7.21.23.04	50 mm dia Flow-switch	each	13,274.86
7.21.23.05	150 mm dia Flow-switch	each	28,389.81
7.21.24	Pressure Reducing Valve: Supply & Installation of Pressure Reducing valve of brass body, screwed end type, shall be used with Hydrant system (To reduce high pressure as necessary). Valve body shall be made of hot pressed brass, seat of stainless steel ANSI304 and suitable for 80°C. Initial pressure shall be 15 bar, adjustable final pressure shall be 0.5bar (min) to 7bar (max) Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.		
7.21.24.01	80 mm Pressure Reducing Valve	each	41,007.50
7.21.24.02	65 mm Pressure Reducing Valve	each	37,064.47

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7.21.24.03	50 mm Pressure Reducing Valve	each	33,121.44
7.21.24.04	40 mm Pressure Reducing Valve	each	29,217.84
7.21.25	Sprinklar Head: Supply & Installation of Sprinklar head of 12 mm 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. Sprinklar head shall be UL Listed / FM Approved.		
7.21.25.01	Pendent Type Sprinkler Head	each	3,364.72
7.21.25.02	Up-Right type Sprinkler Head	each	3,281.91
7.21.25.03	Side wall type Sprinkler Head	each	3,719.59
7.21.26	Sprinklar Alarm Check Valve: Supply & Installation of Sprinkler Alarm Check Valve (Wet Riser Type) The valve shall be actuated by breaking of sprinkler glass bulb. The valve shall be UL Listed /FM approved Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.		
7.21.26.01	150 mm dia Alarm Check Valve	each	330,031.49
7.21.26.02	100 mm dia Alarm Check Valve	each	264,314.35
7.21.27	Water Flow Monitoring Panel: Supply & Installation of Water Flow Monitoring Panel to monitor water flow of Hydrant units. After receiving Close Contact through flow switches Indication will be at Panel and buzzer will be activated. Power supply: 230V AC $\pm$ 10%. Network power shall be 24V DC. The panel shall be Conventional type, complete with LED indication, keypad, trickle charger, rechargeable batteries etc. Country of Origin: Japan / Germany / EU / Korea or their licensed manufacturing units located globally.		
7.21.27.01	WFMP for 8 nos of Hydrant	each	107,421.24
7.21.27.02	WFMP for 16 nos of Hydrant	each	134,062.97
7.21.27.03	WFMP for 24 nos of Hydrant	each	199,464.67
7.21.28	Balancing, Testing & Commissioning of Fire Hydrant system.		
7.21.28.01	For Level: 1 to 5	Job	39,237.94
7.21.28.02	For next level	Job	6,094.86

Section-22: Fire Detection & Alarm System (Conventional Type)

7.22	Conventional Fire Alarm & Detection System		
7.22.01	Conventional Fire Alarm Control Panels:		
7.22.01.01	Fire Alarm Control Panel : 08 Zone Capacity Supply and Installation of 08 Zone Conventional Fire alarm control panel 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 or FM Approved.	each	106,188.39
7.22.01.02	Fire Alarm Control Panel : 16 Zone Capacity Supply and Installation of 16 Zone Conventional Fire alarm control panel 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 or FM Approved.	each	132,191.35
7.22.01.03	Fire Alarm Control Panel : 24 Zone Capacity Supply and Installation of 24 Zone Conventional Fire alarm control panel 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 or FM Approved.	each	199,320.09

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7.22.02	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. According to UL listed or FM approved / NFPA or equivalent standard . Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	6,862.18
7.22.03	Notification Devices:		
7.22.03.01	Fire Alarm Bell: Supply and installation of Conventional type Fire Alarm Bell of 150mm dia , red color, shall be UL / ULC listed / CSFM / FM / MEA / BFP / EN54 approved. Power supply shall be 24VDC. Sound level shall be not less than 92 dBA @ 3meter. Color of the Bell shall be red. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	7,081.68
7.22.03.02	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 / ULC listed / CSFM / FM / MEA / BFP / EN54 approved. Power supply shall be 24VDC. Color of the device shall be red. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	6,817.50
7.22.03.03	Strobe / Horn with Strobe: 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 / ULC listed / CSFM / FM / MEA / BFP / EN54 approved. Power supply shall be 24V DC. Color of the device shall be red. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	7,122.42
7.22.04	Optical / Photoelectric Smoke Detector: Supply and installation of Smoke Detector complete with base. Shall be UL / ULC listed / CSFM / FM / MEA / BFP / EN54 approved. Integrated alarm LED. Remote LED connection. Power supply shall be 24V DC. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	6,863.50
7.22.05	Heat Detector: Supply and installation of Heat Detector complete with base. Shall be UL / ULC listed / CSFM / FM / MEA / BFP / EN54 approved. Integrated alarm LED. Remote LED connection. Power supply shall be 24V DC. Country of Origin : Australia / USA / Japan / Malaysia / EU countries / Or their Licensed manufacturing units located Globally.	each	6,863.50
7.22.06	Balancing, Testing & Commissioning of Fire Detection & Alarm System		
7.22.06.01	For 8 Zone	Job	21,213.49
7.22.06.02	For 16 Zone	Job	42,426.99
7.22.06.03	For 24 Zone	Job	84,853.97

Section-23: Fire Detection & Alarm System (Addressable Type)

7.23 Fire Detection & Alarm System

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7.23.01

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. Control units for Fire -Protective Signaling Systems".

Addressable Fire Alarm Control Panel shall be complete, non-coded, Addressable, microprocessor based 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.

Monitoring: FACP shall individually monitor sensors for calibration, sensitivity, and alarm condition, and shall individually adjust for sensitivity. The control unit shall determine the condition of each sensor by comparing the sensor value to the stored values.

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.

Programmable Sensitivity : Photoelectric Smoke Sensors shall have various sensitivity levels ranging from ($\pm$) 0.2% up to 3.7%, programmed and monitored from the FACP.

Sensitivity Testing Reports: The FACP shall provide sensor reports that meet NFPA /internationally accepted standard calibrated test method requirements. The reports shall be viewed on a CRT Display or printed for annual recording and logging of the calibration maintenance schedule.

The FACP shall automatically indicate when an individual sensor needs cleaning. The system shall provide a means to indicate that a sensor requires cleaning. When a sensor's average value reaches a predetermined value, (3) progressive levels of reporting are provided. The first level shall indicate that a sensor is close to a trouble reporting condition and will be indicated on the FACP as "ALMOST DIRTY." This condition provides a means to alert maintenance staff of a dirty sensor without creating a trouble in the system.

If this indicator is ignored, a second level "DIRTY SENSOR" condition shall be indicated at the FACP and subsequently a system trouble is reported [to the Central Monitoring Station]. The sensor base LED shall glow steady giving a visible indication at the sensor location. The "DIRTY SENSOR" condition shall not affect the sensitivity level required to alarm the sensor. If a "DIRTY SENSOR" is left unattended, and its average value increases to a third predetermined value, an "EXCESSIVELY DIRTY SENSOR" trouble condition shall be indicated at the control unit.

The FACP shall continuously perform an automatic self-test on each sensor which will check sensor electronics and ensure the accuracy of the values being transmitted. Any sensor that fails this test shall indicate a "SELF TEST ABNORMAL" trouble condition.

Options at FACP : The control panel operator shall be able to make announcements via the push-to-talk paging microphone over the pre-selected speakers. Soft touch keypad, LED indications, LCD Display.

Facility for total building paging shall be accomplished by the means of an "All Call" switch.

Firefighter's phone (Optional) : Provide a supervised, two-way communication system between the Command Center/main fire alarm control panel and emergency phones.

The firefighter's phone system shall be capable of handling single or simultaneous conversations with all phones connected into the system. As many as seven (7) phones shall be able to be connected into the active conversation.

The phone system circuits shall be designed to prevent static, hum or other interference for clear, intelligible two-way conversation among all phones of the system.

The phone system circuits shall be supervised, such that the FACP shall be able to differentiate between whether a handset has been plugged into the emergency phone jack or whether the circuit has a shorted wire.

A beeping busy signal shall indicate to the person attempting to use a remote phone that the signal is being received at the control unit and that the lines are intact.

The act of plugging a handset into an emergency phone jack or removal of any phone from its normal hook position shall cause an audible and visual indication at the control unit.

Picking up the master phone and acknowledgment of the phone circuit shall silence the tone and allow for direct two-way communications.

The act of unplugging handsets in use and replacement of remote phones will return the phone circuits to their normal supervisory functions.

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

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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 240VAC. All circuits requiring system-operating power shall be 24 VDC 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 green "power on" LED shall be displayed continuously while incoming power is present.

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 per the prescribed backup time periods and under all voltage conditions 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.

Alphanumeric Display and System Controls: Panel shall be included an 80 character LCD display to indicate alarm, supervisory, and component status messages and shall include a keypad for use in entering and executing control commands.

Voice Alarm: Provide an emergency communication system, integral with the FACP, including voice alarm system components, microphones, amplifiers, and tone generators.

Features include:

Amplifiers comply with UL 1711, "Amplifiers for Fire Protective Signaling Systems."

Amplifiers shall provide an onboard local mode temporal coded horn tone as a default backup tone. Test switches on the amplifier shall be provided to test and observe amplifier backup switchover. Each amplifier shall communicate to the host panel amplifier and NAC circuit voltage and current levels for display on the user interface.

All announcements shall made over dedicated, supervised communication lines. All risers shall support [Class A][Class B] wiring for each audio channel.

Emergency voice communication audio controller module shall provide up to 30 minutes of message memory for digitally stored messages. Provide supervised connections for master microphone and up to 5 remote microphones.

Fire fighters' telephone communication system: Arrange system to use dedicated, two-way, supervised voice communication links between the FACP and remote fire fighters' telephone stations throughout the building.

Fire Alarm Control Unit shall be capable of operating remote CRT's and/or printers; output shall be ASCII from an RS connection with an adjustable baud rate.

Fire Alarm Control Unit shall be capable of operating a PC Annunciator which provides status annunciation and limited system control using a convenient and familiar Microsoft Windows® 2000 operating system based interface. PC Annunciator shall provide the following functions: FACP shall be with Login / Logoutword protection with time duration selectable automatic logout. Displays: Alarm, Supervisory, Priority 2, and Trouble conditions with numerical tallies for each displays first and last alarms. Different event types have separate visible indicators with common audible indicator. Event logs can be searched and printed. View and / or print status reports and service reports (printing requires and available local or network printer).

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.

Each RS port shall be capable of supporting and supervising a remote Printer; the FACP shall support as many as remote displays. The Fire Alarm Control Panel shall support five RS ports.

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.

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	Operating Temperature Range: 32° to 120°F (0° to 49°C) Operating Humidity Range: Up to 93% RH, non-condensing @ 90° F (32° C) maximum Approvals: UL, ULC Listed/, FM approved/ CSFM approved.		
7.23.01.01	FACP for up to 250 Addressable Devices (Max.)	set	595,594.47
7.23.01.02	FACP for up to 500 Addressable Devices (Max.)	set	704,684.92
7.23.01.03	FACP for up to 750 Addressable Devices (Max.)	set	845,319.61
7.23.01.04	FACP for up to 1000 Addressable Devices (Max.)	set	966,239.15
7.23.01.05	FACP for up to 1500 Addressable Devices (Max.)	set	1,162,996.28
7.23.01.06	FACP for up to 2000 Addressable Devices (Max.)	set	1,499,862.35
7.23.02	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 40 characters each. Annunciator shall be provided with programmable control switches and associated LEDs. Under normal conditions the LCD shall display a "SYSTEM IS NORMAL" message and the current time and date. Should an abnormal condition be detected 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: 40 character location label. Type of device (e.g. smoke / pull station / water flow etc.). Point status (e.g. alarm / trouble). Operator keys shall be 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 temperature range shall be : 0° to 40°C Operating Humidity Range: 10% to 90% from 0° to 40°C The Panel shall be fixed on wall with Surface mount box. Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Liscenced manufacturing units located Globally.	set	218,378.07
7.23.03	Multi Detector / Multi Sensors: Supply & Installation of Multi-Sensors shall be combined with photoelectric smoke sensing and heat sensing technologies complete with standard base. An alarm shall be determined by either smoke detection, with selectable sensitivity from 0.2 to 3.7 %/ft obscuration; 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. The Sensors shall be complete with Programmable standard bases. It shall be possible to program relay and sounder bases to operate independently of their associated sensor. Magnet test activation of smoke sensors shall be distinguished by its label and history log entry as being activated by a magnet. shall be suitable for 360° smoke entry for optimum response, photoelectric light scattering sensing technology. The detector shall be functional and architecturally styled enclosures for ceiling or wall mounting. Smoke sensor louver design that directs air flow to chamber enhancing smoke capture. Shall be designed for EMI compatibility, RFI shielded. UL Listed temperature Range shall be: 0° to 38°C and Operating temperature range shall be : 0° to 50°C Shall be suitable for Humidity range: 10% to 95% RH Housing color shall be Frost White. Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Liscenced manufacturing units located Globally.	set	10,843.33

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7.23.04	Addressable type Photoelectric Smoke Detector: Supply & Installation of Addressable type Photoelectric Smoke Detector c/w Standard Base. Comply with internationally accepted standard "Smoke Detectors for Fire Protective Signaling Systems." Include the following features: The detector shall be Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore normal operation. Sensors shall be with Plug-In Arrangement and associated electronic components are mounted in a module that connects to a fixed base with a twist-locking plug connection. Base shall provide break-off plastic tab that can be removed to engage the head/base locking mechanism. No special tools shall be required to remove head once it has been locked. Removal of the detector head shall interrupt the supervisory circuit of the fire alarm detection loop and cause a trouble signal at the control unit. Sensors shall be with Quick Connect Arrangement: Photoelectric sensor and electronics in a single piece construction which shall twist-lock onto a mounting base that attaches to a standard electrical box. Each sensor base shall contain an LED that will flash each time it is scanned by the Control Unit (once every 4 seconds). In alarm condition, the sensor base LED shall be on steady. Each sensor base shall contain a magnetically actuated test switch to provide for easy alarm testing at the sensor location. 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 device", the control unit shall operate with the installed device at the default alarm settings for that sensor; 2.5% obscuration for photoelectric sensor, 135-deg F and 15-deg F rate-of-rise for the heat sensor, but shall indicate a "Wrong Device" trouble condition. The sensor's electronics shall be immune from false alarms caused by EMI and RFI. Sensors shall be including a communication transmitter and receiver in the mounting base having a unique identification and capability for status reporting to the FACP. Sensor address shall be located in base to eliminate false addressing when replacing sensors. Removal of the sensor head for cleaning shall not require the setting of addresses. UL Listed temperature Range shall be: 0° to 38°C and Operating temperature range shall be : 0° to 50°C Shall be suitable for Humidity range: 10% to 95% RH Housing color shall be Frost White. Smoke sensor Ambient Ratings: Air Velocity = 0-2000 ft/min (0-610m/min) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	9,923.29
7.23.05	Addressable Type Heat Detector: Supply & Installation of Addressable type Heat Detector / Thermal Sensor: Combination fixed-temperature and rate-of-rise unit with plug-in base and alarm indication lamp; 135° F fixed-temperature setting except as indicated. Thermal sensor shall be of the epoxy encapsulated electronic design. It shall be thermostat-based, rate-compensated, self-restoring and shall not be affected by thermal lag. The Heat Sensors of fixed temperature sensing shall be independent of rate-of-rise sensing and programmable to operate at 135° F or 155° F. Sensor rate-of-rise temperature detection shall be selectable at the FACP for either 15° F or 20° F per minute. The Heat Sensors shall have the capability to be programmed as a utility monitoring device to monitor for temperature extremes in the range from 32-deg F to 155-deg F. UL Listed temperature Range shall be: 0° to 38°C and Operating temperature range shall be : 0° to 50°C Shall be suitable for Humidity range: 10% to 95% RH Housing color shall be Frost White. Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	8,832.38

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Item Code	Brief Description of Item	Unit	Rate
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7.23.06	Addressable Manual Pull Station: Supply & Installation of Addressable type Manual Call Station of red LEXAN, with molded, raised-letter operating instructions of contrasting 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 MCS will require 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. UL Listed Temperature Range: 32° to 120° F (0° to 49° C) intended for indoor operation. Humidity Range: Up to 93% RH at 100°F (38°C) Housing Colour shall be Red with white raised lettering. Housing and pull lever shall be made with Lexan Polycarbonate or equal. The MCS shall be semi-flash / surface mount type. Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.		
7.23.06.01	Addressable Manual Pull Station : Single action	set	9,561.84
7.23.06.02	Addressable Manual Pull Station : Double action	set	11,664.79
7.23.07	Addressable Notification Devices:		
7.23.07.01	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. A visible LED on each appliance shall provide verification of communications. The device shall be suitable to program the High / Low setting of the audible (horn) appliances by channel from the addressable controller. The Horn shall be red color with "FIRE" lettering. Addressable horn shall be listed to UL. The horn shall be suitable to produce sound pressure level of 89 dBA @ 24VDC. 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 be suitable to temperature range : 0° to 50° C Humidity Range: Up to 93% RH at 100°F (38°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	9,561.84
7.23.07.02	Addressable Notification Device (Strobe Only) Supply & Installation of Addressable strobe shall be listed to UL. The V/O shall consist of a xenon flash tube and associated lens/reflector system. The V/O enclosure shall mount directly to standard single gang, double gang or 4" square electrical box, without the use of special adapters or trim rings. Appliances shall be wired with UTP conductors, having a minimum of 3 twists per foot. V/O appliances shall be provided with different minimum flash intensities from 15cd to 110cd and to provide a label inside the strobe lens to indicate the listed candela rating of the specific Visible Only appliance. Shall be suitable to temperature range : 0° to 50° C Humidity Range: Up to 93% RH at 100°F (38°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	9,561.84
7.23.07.03	Addressable Notification Device (Horn with Strobe) Supply & Installation of Addressable type Horn with Strobe for Audible & Visible application, combination of Audible & Visible (A/V) Notification Appliances shall be listed to UL. The strobe light shall consist of a xenon flash tube and associated lens / reflector system. Provide a label inside the strobe lens to indicate the listed candela rating of the specific strobe. The horn shall have a minimum sound pressure level of 83 to 89 dBA @ 24VDC. The audible / visible enclosure shall mount directly to standard single gang, double gang or 4" square electrical box, without the use of special adapters or trim rings. Shall be suitable to temperature range : 0° to 50° C Humidity Range: Up to 93% RH at 100°F (38°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	11,664.79
7.23.08	Addressable Modules:		

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7.23.08.01	Isolator Module / Fault Isolator Module Supply & Installation of Addressable type Isolator / Fault Isolator Module shall be used in the field wiring between the devices (contractor shall propose the quantity and location in the system required) 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 trouble shooting for wiring problems). The device shall be suitable for indoor use only. Shall be suitable to temperature range : 0° to 50° C Humidity Range: Up to 90% RH at 35°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	8,510.37
7.23.08.02	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 installed with a back box. The device shall be suitable for indoor use only. Shall be suitable to temperature range : 0° to 50° C Humidity Range: Up to 90% RH at 35°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	8,510.37
7.23.08.03	Addressable Relay / Control Module Supply & Installation of Addressable Relay / Control Module shall be used in the field wiring to connect the conventional Initiating devices with the Addressable FACP interfaces to 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 back box. Shall be suitable to temperature range : 0° to 50° C Humidity Range: Up to 90% RH at 35°C) Approvals: UL, ULC Listed/, FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA Or their Licensed manufacturing units located Globally.	set	8,510.37
7.23.09	Programming, Testing & Commissioning of Addressable type Fire Alarm		
7.23.09.01	FACP for up to 250 Addressable Devices (Max.)	Job	226,803.00
7.23.09.02	FACP for up to 500 Addressable Devices (Max.)	Job	239,946.43
7.23.09.03	FACP for up to 750 Addressable Devices (Max.)	Job	253,089.86
7.23.09.04	FACP for up to 1000 Addressable Devices (Max.)	Job	266,233.29
7.23.09.05	FACP for up to 1500 Addressable Devices (Max.)	Job	292,520.15
7.23.09.06	FACP for up to 2000 Addressable Devices (Max.)	Job	318,807.00

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Item Code	Brief Description of Item	Unit	Rate
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7.23.10	Supply, installation & commissioning of Addressable/Conventional type Beam Smoke Detector c/w Standard Base with LED indicator. Comply with internationally accepted standard "Smoke Detectors for Fire Protective Signaling Systems." Include the following features: The detector shall be Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore normal operation. Sensors shall be with Plug-In Arrangement and associated electronic components are mounted in a module that connects to a fixed base with a twist-locking plug connection. Base shall provide break-off plastic tab that can be removed to engage the head/base locking mechanism. No special tools shall be required to remove head once it has been locked. Removal of the detector head shall interrupt the supervisory circuit of the fire alarm detection loop and cause a trouble signal at the control unit. Sensors shall be with Quick Connect Arrangement. UL Listed temperature Range shall be: 0° to 38°C and Operating temperature range shall be: -38° to 55°C Shall be suitable for Humidity range: 10% to 93% RH Detection range: up to 100m Detector dimension (254x191x84 mm) Reflector dimension (200x230mm to 400x460mm) Voltage 15 to 32v Current 8.5mA to 92mA Approvals: UL, ULC Listed/ FM approved/ CSFM approved Country of Origin: Japan / Italy / UK / USA or their Licensed manufacturing units located Globally.	each	180,627.25

Section-24: Fire Rated Door

7.24	Fire Rated Door:		
7.24.01	Fire Rated Door: Supply & installation of UL listed /FM approved fire rated door complete with panic bar, electromagnetic door holder & vision panel. The door shall be UL certified made with 1.60mm thick sheet steel, powder coated paint finish and curing in temperature controlled gas oven with approved red colour over a coat of primer. Thickness of the leaf shall be 50mm and filled with fire proof / resisting materials rock wool with density of 100 kg/cum of minimum two hours rated. The panic bar shall be horizontal type, UL listed made of aluminum alloy / steel, chrome plated, c/w with security lock to operate from outside. All MS sheet surface shall be chemically treated before assembling in chemical treatment plant. Vision panel shall be made of minimum 5mm thick glass with a frame of 1.60mm thick imported cold rolled MS sheet & SS pop rivet, anchor bolts, ceramic fiber tape should be used for fixing. Door frame shall be made with sheet steel of 2.30mm 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. A complete door should also include frame header, frame strike jamb, frame hinge jamb, U-channel top, door closer, mortise/handle lock, door leaf bottom, door leaf top, U-channel bottom, etc. size shall be minimum 1100mm (width) x 2100mm (height). Measurement of the door shall be including frame & vision panel of minimum 0.045 sqm all complete as per direction of E-I-C.	each	112,217.44
7.24.02	Supply, fitting & fixing of Emergency lock Approved by the Engineer in charge. Country of Origin: Malaysia/China/ EU/Korea or other licensed manufacturing units located globally.	each	10,580.46
7.24.03	Supply, fitting & fixing of Fire Door Release Button & Approved by the Engineer in charge. Country of Origin: China/EU/Korea or other licensed manufacturing units located globally.	each	2,135.81

Chapter 8

Electrical Works

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1	2	3	4

Chapter - 8 : Electrical Works**Section-01: Main and Sub-Main Switches**

8.01	Distribution board (DB/MDB): Supplying, assembling, fitting, fixing & installation (with effective connection) of 415 volt, 50Hz grade Plug in type (concealed/surface) distribution board made of 18 SWG mild steel sheet, complete with hinged type door, built in type locking arrangement, along with approved type handle, 100A - 400A capacity bus-bar (Phase, Neutral & Earthing) , insulators at both ends, necessary arrangement for fixing of TP MCCB (incoming) & SP/TP MCB (outgoing) by keeping main MCCB's knob out on the top cover of the board with Powder Coated painting etc. all completes (except circuit breakers) as per specification & direction of the Engineer-in-Charge. Brand : Siemens/ Hager/ Legrand or equivalent.		
8.01.1	12-ways DB Box size-430mmx560mmx125mm; Incoming-TP MCCB Out going-12 nos. SP MCB/4 nos. TP MCB	each	18,898.33
8.01.2	24-ways DB Box size-430mmx630mmx125mm; Incoming-TP MCCB Out going-24 nos. SP MCB/8 nos. TP MCB	each	21,462.90
8.01.3	36-ways DB Box size-430mmx750mmx125mm; Incoming-TP MCCB Out going-36 nos. SP MCB/12 nos. TP MCB	each	25,950.90

Section-02: Distribution/Sub-Distribution Board

8.02	Sub-distribution board (SDB): Supplying & fitting 250 volt, 50HZ grade following concealed sub-distribution board made of 18 SWG mild steel sheet, complete with hinged type door, built in type locking arrangement, along with approved type handle 200 A capacity bus-bar with required number of holes there on, insulators at both ends. Copper bar for neutral & earth terminal, necessary arrangement for fixing of SPMCB by keeping its knobs out on the top cover of the board with enamel/hammer painting. All completes as per specification & direction of the Engineer-in-Charge. Manufacturer of SPMCB Dorman smith (UK/ Germany), MEM (UK), Legrand, SIEMENS (USA/Germany) or Equivalent.		
8.02.01	4-ways SDBBoxsize-450mmx350mmx125mmIncoming-1x 32 A SP MCBOut going-4 x 6/10/16 A SP MCB	each	3,559.66
8.02.02	5-ways SP MCBBoxsize-500mmx450mmx125mmIncoming-1 x 40 A SP MCBOut going-5 x 6/10/16 A SPMCB	each	4,258.91
8.02.03	6-ways SDBBoxsize-550mmx500mmx125mmIncoming-1 x 63 A SP MCBOut going- 6 x 6/10/16 A SPMCB	each	4,878.43
8.02.04	8-ways SDBBoxsize-550mmx500mmx125mmIncoming-1 x 63 A SP MCBOut going- 8 x 6/10/16 A SPMCB	each	5,527.93
8.02.05	10-ways SDBBoxsize-550mmx500mmx125mmIncoming-1 x 63 A SP MCBOut going- 10 x 6/10/16 A SPMCB	each	6,466.57
8.02.06	12-ways SDBBoxsize-550mmx500mmx125mmIncoming-1 x 63 A SP MCBOut going- 12 x 6/10/16 A SPMCB	each	7,405.20
8.02.07	Sub-distribution board (ENCLOSER): Supplying, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of 250 volt, 50HZ grade following concealed sub-distribution board made of 18 SWG mild steel sheet, complete with hinged type door, built in type locking arrangement, along with approved type handle 100 A capacity bus-bar (Only Neutral & Earthing) , insulators at both ends, necessary arrangement for fixing of SPMCB by keeping its knobs out on the top cover of the board with enamel/hammer painting. All completes as per specification & direction of the Engineer-in-Charge.		
8.02.07.1	4-ways SDBBoxsize-250mmx150mmx125mm, Provision : Incoming-1x 20 A SP MCB Out going-4 x 6/10/16 A SP MCB	each	1,056.35
8.02.07.2	6-ways SDBBoxsize-250mmx200mmx125mm, Provision : Incoming-1x 32 A SP MCB Out going-6 x 6/10/16 A SP MCB	each	1,235.87
8.02.07.3	8-ways SDBBoxsize-250mmx250mmx125mm, Provision : Incoming-1x 32 A SP MCB Out going-8 x 6/10/16 A SP MCB	each	1,710.31
8.02.07.4	10-ways SDBBoxsize-50mmx300mmx125mm, Provision : Incoming-1x 40 A SP MCB Out going-10 x 6/10/16 A SP MCB	each	2,518.15
8.02.07.5	12-ways SDBBoxsize-250mmx350mmx125mm, Provision : Incoming-1x 63 A SP MCB Out going-12 x 6/10/16 A SP MCB	each	2,800.26

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Item Code	Brief Description of Item	Unit	Rate
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8.02.08	Supplying, fitting and fixing Distribution/Sub-Distribution board made of 18 SWG steel sheet metal enclosed with double cover, gray hammer painted on outside and enamel paint on inside on rust proof prime coat with hinged front door with lock and key arrangement for half concealed mounted board having knock out for conduit entry and exit for 415/230V TP&N/ SP&N operations. The board shall have solid neutral and earth copper bus bar and also required size off 3 phase copper bus bars covering transparent fiber glass. All bars shall have required number of holes of 5mm for cable connections etc. all complete as per drawing, design and direction of E-I-C.	sqm	9,256.64
8.02.09	Water heater (Geyser):Supplying, assembling, fitting, fixing, installation (with effective connection), testing & commissioning of following capacity electrically operated Water Heater containing inner tank made of minimum 14 SWG non magnetic rust proof galvanized steel & outer jacket/body made of minimum 22 SWG mild steel sheet & proper thermal insulation with automatic thermostatic switch with suitable wattage range of immersion heating element, on-off indicating lamp, inlet and outlet water connection pipe including fixing accessories all complete as required with adequate safety measures complete with required accessories and in conformity with codes and specification of international standards, suitable for use in tropicalized country like Bangladesh. Model and sample to be approved by the competent authority.		
8.02.09.1	10 gallon/Hr. (1000Watt) Wall mounted type	each	10,081.84
8.02.09.2	15 gallon/Hr. (1250Watt) Wall mounted type	each	11,764.84
8.02.10	Supplying, fitting and fixing 300mm depth surface type double based meter board made of 16 SWG sheet metal with gray hammer paint on outside and enamel paint on inside surface over rust proof prime coat. Second base shall be part by part hinged type of required width fixing arrangement, MCCB/MCB's, bus bars and also to height of connecting cable. Outside sheets shall be fixed on 38mmx38mm M.S angle frame. Front cover shall be of hinged type with lock and key arrangement. The board shall have knockout for cable entry and exit and also to dispose heat produced inside. There shall be transparent plastic in the front door over the meter for meter reading. Copper bus bars for three phase, neutral and earthing shall be supplied by the contractors. The meter board shall be fixed on proper clamping with nuts and bolts etc. all complete as per drawing, design and direction of the E-I-C.	sqm	767.45
8.02.11	Supplying, fitting and fixing 250 volts 15 amps ICDB with fuse on live side and complete as per directions of the E-I-C.		
8.02.11.1	10- way	each	3,581.12
8.02.11.2	8-way	each	3,319.53
8.02.11.3	6-way	each	3,057.94
8.02.11.4	4-way	each	2,796.36
8.02.11.5	2-way	each	2,665.56
8.02.12	Supplying, fitting and fixing junctions boxes where necessary as per directions of the E-I-C. The junction boxes should be shock proof.		
8.02.12.1	2- way	each	171.93
8.02.12.2	4- way	each	279.42
8.02.13	Taking out old panel board, switch board, ICDB/sub-main switch board etc. and stacking the same to a preselected place as per directions of the E-I-C.	LS	

Section-03: Energy Meter

8.03	Supplying, fitting and fixing energy meter with cutout teak wood board etc. all complete as per directions of E-I-C (when the meter is not supplied by PDB).		
8.03.1	500 Volts 3 phase		
8.03.1.1	200 amps	each	18,074.67
8.03.1.2	150 amps	each	7,457.34
8.03.1.3	100 amps	each	13,429.59
8.03.1.4	60 amps	each	13,429.59
8.03.1.5	30 amps	each	11,438.84

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1	2	3	4
8.03.2	250 Volts single phase		
8.03.2.1	10 amps to 60 amps	each	2,812.26
Section-04: Circuit Breaker			
8.04	Supplying, assembling, fitting, fixing & installation (with effective connection) on a prepared board 250/500volt grade following single/triple pole SPMCB/TPMCB/TPMCCB having minimum breaking capacity 6/10/16KA with thermal over current & instantaneous electromagnetic short circuit release provision. Manufacturer of SPMCB/TPMCB/TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK), ABB (Italy), Legrand (France), Hager (France)/SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.		
8.04.1	"SPMCB (6KA) Manufacturer of SPMCB/TPMCB/TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany), MEM (UK), ABB (Italy), Legrand (France), SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge."		
8.04.1.1	3 amps (6KA) SPMCB	each	483.08
8.04.1.2	6 amps (6KA) SPMCB	each	478.29
8.04.1.3	10 amps (6KA) SPMCB	each	483.08
8.04.1.4	16 amps (6KA) SPMCB	each	483.08
8.04.1.5	20 amps (6KA) SPMCB	each	483.08
8.04.1.6	32amps (6KA) SPMCB	each	483.08
8.04.1.7	40 amps (6KA) SPMCB	each	483.08
8.04.1.8	63 amps (6KA) SPMCB	each	1,177.25
8.04.1.9	32A-63A (10kA) DP MCB	each	1,492.58
8.04.2	TP MCB (6KA) Manufacturer of SPMCB/TPMCB/TPMCCB (6/10/16 KA) Dorman smith (UK/ Germany) MEM (UK) SIEMENS (USA/Germany) or equivalent approved by the Engineer-in-charge.		
8.04.2.1	20 amps (6KA) TPMCB	each	2,344.15
8.04.2.2	32 amps (6KA) TPMCB	each	2,599.28
8.04.2.3	40 amps (6KA) TPMCB	each	2,599.28
8.04.2.4	63 amps (6KA) TPMCB	each	2,793.55
8.04.2.5	16 amps (6KA) TPMCB	each	2,320.94
8.04.3	TP MCCB: Manufacturer of TP MCCB Dorman smith (UK/ Germany) MEM (UK) SIEMENS (USA/Germany) or equivalent approved by the Engineering-charge.		
8.04.3.1	63 amps (10 KA) TPMCCB	each	9,083.89
8.04.3.2	80 amps (10 KA) TPMCCB	each	11,117.21
8.04.3.3	100 amps (10 KA) TPMCCB	each	11,635.26
8.04.3.4	150/160 amps (10 KA) TPMCCB	each	21,839.42
8.04.3.5	125 amps (10 KA) TPMCCB	each	12,199.67
8.04.4	Supplying, fitting and fixing 500V grade re-wearable fuse link porcelain carrier approved quality (foreign made) on prepared board etc. all complete as per directions of the E-I-C.		
8.04.4.1	100 amps	each	160.85
8.04.4.2	60 amps	each	150.88
8.04.4.3	30 amps	each	114.88
8.04.4.4	15 amps	each	91.56
8.04.4.5	10 amps	each	85.09
8.04.4.6	5 amps	each	66.96

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Section-05: Electrical Wiring and Cable**8.05 ELECTRICAL WIRING**

8.05.01	Batten Wiring: Surface Batten Wiring for the following Points Looping at the Switch board with earth terminal including Circuit wiring with 2c-1.5 sq.mm PVC insulated and sheathed cable (BYFYE) on minimum 12.5 mm thick teak wood batten painted at the bottom complete with 18 SWG GP Sheet switch board with 3mm thick ebonite sheet cover, 5 amps. Piano type switch, brass holder, ceiling rose, wooden round block, fixing materials & all other accessories as required including mending the damages: Manufacturer of cable Eastern/BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the specification & direction of the Engineer- in-charge.		
8.05.01.1	Light point / Exhaust / Wall bracket fan point	point	750.44
8.05.01.2	Ceiling fan point	point	750.44
8.05.01.3	Call bell point with bell push	point	807.89
8.05.01.4	2-pin 5 amps socket (outlet)	point	542.02
8.05.02	Channel Wiring: Surface Channel Wiring for the following Points Looping at the Switch board with earth terminal including Circuit wiring with 1C-1.5 Sq.mm PVC insulated and sheathed stranded cable (BYM) & 1.5 mm rm (green) PVC insulated ECC wire (BYA) through 01 mm thick PVC Channel complete with 18 SWG GP Sheet concealed/ surface switch board with 3mm thick ebonite sheet cover, circular box, 5 amps. Piano type switch, brass holder, ceiling rose, fixing materials & all other accessories as required including mending the damages: Manufacturer of cable Eastern/BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the specification & direction of the Engineer- in-charge.		
8.05.02.1	Light point/Exhaust / Wall bracket fan point	point	1,179.11
8.05.02.2	Ceiling fan point	point	1,337.91
8.05.02.3	Call bell point with bell push	point	1,371.22
8.05.02.4	2-pin 5 amps socket (outlet)	point	714.38
8.05.03	Surface Conduit wiring : Conduit wiring on Surface for the following Points Looping at the Switch board with earth terminal including Circuit wiring with 1c-2x1.5 Sq.mm PVC insulated and stranded cable (BYA) & 1.5 mm rm (green) PVC insulated ECC wire (BYA) through PVC conduit (Aziz or equivalent) of 25 mm inner dia , wall thickness 1.5 mm, 18 SWG GP Sheet, switch board & Pull box with 3 mm thick ebonite sheet cover, 5 amps. Piano type switch, brass holder, ceiling rose, wooden round block, fixing materials & all other accessories as required including mending the damages: Manufacturer of cable Eastern/BRB/ Paradise/Poly cable/ Super sign/BBS or equivalent according to the specification & direction of the Engineer- in-charge.		
8.05.03.1	Light point/Exhaust/Wall bracket fan point	point	978.34
8.05.03.2	Ceiling fan point	point	1,137.14
8.05.03.3	Call bell point with bell push	point	1,136.42
8.05.03.4	2-pin 5 amps socket (outlet)	point	714.38
8.05.04	Concealed Conduit wiring: Concealed Conduit wiring for the following Points Looping at the Switch board with earth terminal including Circuit wiring with 1c-2x1.5 Sq.mm PVC insulated stranded cable (BYA) & 1.5 Sq.mm (Yellow-green) PVC insulated stranded ECC wire (BYA) through PVC conduit (Aziz or equivalent) of 25 mm inner dia wall thickness 1.5 mm, 18 SWG GP Sheet, switch board & Pull box with 3mm thick ebonite sheet cover, brass contact, ceiling rose, fixing materials & all other accessories as required including mending the damages: Manufacturer of cable Eastern/ BRB/Paradise/Poly cable/Super sign/BBS or equivalent according to the specification & direction of the Engineer- in-charge.		
8.05.04.1	Light point/Exhaust/Wall bracket fan point	point	1,326.61
8.05.04.2	Ceiling fan point	point	1,485.41
8.05.04.3	Call bell point with bell push	point	1,454.70
8.05.04.4	2-pin 5 amps socket (outlet)	point	685.76

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8.05.05	BYFYE Cable: Supplying & installation of surface batten wiring with the following PVC insulated & sheathed cable (BYFYE) on 12.5 mm thick teak wood batten, painted at the bottom. Complete with all other accessories. Manufacturer of cable Eastern/BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.05.1	2c – 1.5 Sq.mm (BYFYE) Cable	m	109.45
8.05.05.2	2c – 2.5 Sq.mm (BYFYE) Cable	m	142.71
8.05.05.3	2c – 4.0 Sq.mm (BYFYE) Cable	m	188.85
8.05.05.4	2c – 6.0 Sq.mm (BYFYE) Cable	m	249.01
8.05.06	BYM Cable: Supplying & installation of surface Channel wiring with the following PVC insulated & sheathed stranded cable (BYM) & green Colored PVC insulated ECC wire (BYA) through PVC Channel complete with fixing materials & other accessories as specified. Manufacturer of cable. Eastern/ BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.06.1	1c-2x1.5 Sq.mm (BYM)Cable with 1.5 Sq.mm (BYA) ECC wire through PVC Channel	m	176.78
8.05.06.2	1c-2x2.5 Sq.mm (BYM)Cable with 2.5 Sq.mm (BYA) ECC wire through PVC Channel	m	227.69
8.05.06.3	1c-2x4.0 Sq.mm (BYM)Cable with 4.0 Sq.mm (BYA) ECC wire through PVC Channel	m	512.49
8.05.06.4	1c-2x6.0 Sq.mm (BYM)Cable with 6.0 Sq.mm (BYA) ECC wire through PVC Channel	m	754.49
8.05.07	BYA Cable: Conduit wiring on surface with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.07.1	1c-2x1.5 Sq.mm (BYA) Cable with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	150.85
8.05.07.2	1c-2x2.5 Sq.mm (BYA) Cable with 2.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	201.57
8.05.07.3	1c-2x4.0 Sq.mm (BYA) Cable with 4.0 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	260.95
8.05.07.4	1c-2x6 Sq.mm (BYA) Cable with 6.0 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	342.85
8.05.07.5	1c-2x10 Sq.mm (BYA) Cable with 10 Sq.mm (BYA) ECC wire through PVC Pipe of 31 mm inner dia.	m	539.54
8.05.07.6	1c-2x16 Sq.mm (BYA) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	807.09
8.05.08	NY Y Cable: Surface Conduit wiring with the following PVC insulated stranded cable (NY Y) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.08.01	1c-4x2.5 Sq.mm (NY Y) Cable with 2.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	419.61
8.05.08.02	1c-4x4.0 Sq.mm (NY Y) Cable with 4.0 Sq.mm (BYA) ECC wire through PVC Pipe of 30 mm inner dia.	m	535.85
8.05.08.03	1c-4x6 Sq.mm (NY Y) Cable with 6.0 Sq.mm (BYA) ECC wire through PVC Pipe of 30 mm inner dia.	m	718.43
8.05.08.04	1c-4x10 Sq.mm (NY Y) Cable with 10 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	1,003.59
8.05.08.05	1c-4x16 Sq.mm (NY Y) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	1,434.15
8.05.08.06	1c-4x25 Sq.mm (NY Y) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 50 mm inner dia.	m	2,021.50
8.05.08.07	1c-4x35 Sq.mm (NY Y) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 50 mm inner dia.	m	2,669.49

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1	2	3	4
8.05.08.08	1c-4x50 Sq.mm (NYY) Cable with 25 Sq.mm (BYA) ECC wire through PVC Pipe of 65 mm inner dia.	m	3,661.36
8.05.08.09	1c-4x70 Sq.mm (NYY) Cable with 35 Sq.mm (BYA) ECC wire through PVC Pipe of 65 mm inner dia.	m	5,076.47
8.05.08.10	1c-4x95 Sq.mm (NYY) Cable with 50 Sq.mm (BYA) ECC wire through PVC Pipe of 75 mm inner dia.	m	6,700.44
8.05.08.11	1c-4x120 Sq.mm (NYY) Cable with 70 Sq.mm (BYA) ECC wire through PVC Pipe of 75 mm inner dia.	m	8,057.00
8.05.08.12	1c-4x150 Sq.mm (NYY) Cable with 70 Sq.mm (BYA) ECC wire through PVC Pipe of 75 mm inner dia.	m	10,131.10
8.05.08.13	1c-4x185 Sq.mm (NYY) Cable with 95 Sq.mm (BYA) ECC wire through PVC Pipe of 100 mm inner dia.	m	12,412.26
8.05.08.14	1c-4x240 Sq.mm (NYY) Cable with 120 Sq.mm (BYA) ECC wire through PVC Pipe of 125 mm inner dia.	m	15,519.03
8.05.08.15	1c-4x300 Sq.mm (NYY) Cable with 150 Sq.mm (BYA) ECC wire through PVC Pipe of 125 mm inner dia.	m	19,172.56
8.05.09	BYA Cable: concealed Conduit wiring with the following PVC insulated stranded cable (BYA) & green Colored PVC insulated ECC wire (BYA) through PVC Conduit (Aziz or equivalent) complete with fixing materials & other accessories as specified, Manufacturer of cable Eastern/BRB/Paradise/Poly cable/Super sign/BBS or equivalent according to the Specification & direction of the Engineer-in-charge.		
8.05.09.1	1c-2x1.5 Sq.mm (BYA) Cable with 1.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	183.29
8.05.09.2	1c-2x2.5 Sq.mm (BYA) Cable with 2.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	234.01
8.05.09.3	1c-2x4.0 Sq.mm (BYA) Cable with 4.0 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	293.39
8.05.09.4	1c-2x6 Sq.mm (BYA) Cable with 6.0 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	375.29
8.05.09.5	1c-2x10 Sq.mm (BYA) Cable with 10 Sq.mm (BYA) ECC wire through PVC Pipe of 31 mm inner dia.	m	578.66
8.05.09.6	1c-2x16 Sq.mm (BYA) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	839.53
8.05.10	NYY Cable: concealed Conduit wiring with the following PVC insulated stranded cable (NYY) & green Colored PVC insulated stranded ECC wire (BYA) through PVC Conduit complete with fixing materials & other accessories as specified, Manufacturer of cable BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.10.01	1c-4x2.5 Sq.mm (NYY) Cable with 2.5 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	452.05
8.05.10.02	1c-4x4.0 Sq.mm (NYY) Cable with 4.0 Sq.mm (BYA) ECC wire through PVC Pipe of 25 mm inner dia.	m	568.29
8.05.10.03	1c-4x6 Sq.mm (NYY) Cable with 6.0 Sq.mm (BYA) ECC wire through PVC Pipe of 30 mm inner dia.	m	750.87
8.05.10.04	1c-4x10 Sq.mm (NYY) Cable with 10 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	1,036.03
8.05.10.05	1c-4x16 Sq.mm (NYY) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 40 mm inner dia.	m	1,466.59
8.05.10.06	1c-4x25 Sq.mm (NYY) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 50 mm inner dia.	m	2,053.94
8.05.10.07	1c-4x35 Sq.mm (NYY) Cable with 16 Sq.mm (BYA) ECC wire through PVC Pipe of 50 mm inner dia.	m	2,579.87
8.05.10.08	1c-4x50 Sq.mm (NYY) Cable with 25 Sq.mm (BYA) ECC wire through PVC Pipe of 65 mm inner dia.	m	3,558.65
8.05.10.09	1c-4x70 Sq.mm (NYY) Cable with 35 Sq.mm (BYA) ECC wire through PVC Pipe of 65 mm inner dia.	m	4,910.85

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8.05.10.10	1c-4x95 Sq.mm (NYY) Cable with 50 Sq.mm (BYA) ECC wire through PVC Pipe of 75 mm inner dia.	m	6,481.31
8.05.10.11	1c-4x120 Sq.mm (NYY) Cable with 70 Sq.mm (BYA) ECC wire through PVC Pipe of 75 mm inner dia.	m	8,185.47
8.05.10.12	1c-4x150 Sq.mm (NYY) Cable with 70 Sq.mm (BYA) ECC wire through PVC Pipe of 100 mm inner dia.	m	9,863.80
8.05.10.13	1c-4x185 Sq.mm (NYY) Cable with 95 Sq.mm (BYA) ECC wire through PVC Pipe of 100 mm inner dia.	m	12,144.60
8.05.10.14	1c-4x240 Sq.mm (NYY) Cable with 120 Sq.mm (BYA) ECC wire through PVC Pipe of 125 mm inner dia.	m	15,588.20
8.05.10.15	1c-4x300 Sq.mm (NYY) Cable with 150 Sq.mm (BYA) ECC wire through PVC Pipe of 125 mm inner dia.	m	19,208.34
8.05.10.16	1c-4x400 Sq.mm (NYY) Cable with 150 Sq.mm (BYA) ECC wire through PVC Pipe of 125 mm inner dia.	m	23,235.29
8.05.10.20	1c-3X240+120Sq.mm (2xFGY)Armour Cable through PVC Pipe of 150mm inner dia.	m	22,853.17
8.05.11	HT Cable: Supplying & Laying of following sizes HT (11KV) PVC insulated & sheathed stranded screened & armoured cable (NYSEYFGbY)/ HT(11KV) armoured XLPE cable in common trench.With HT (11KV) Cables (NYSEYFGby) Manufacturer of cable BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.11.1	3Cx25 sq.mm cable in ground/road through 75 mm PVC pipe having wall thickness of 3mm.	m	3,886.59
8.05.11.2	3Cx35 sq.mm cable in ground/road through 75 mm PVC pipe having wall thickness of 3mm	m	4,436.23
8.05.11.3	3Cx50 sq.mm cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	5,312.69
8.05.11.4	3Cx70 sq.mm cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	6,421.99
8.05.11.5	3Cx95 sq.mm cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	7,760.31
8.05.11.6	3Cx120 sq.mm cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	9,015.25
8.05.11.7	3Cx150 sq.mm cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	10,911.10
8.05.11.8	3Cx185 sq.mm cable in ground/road through 125 mm PVC pipe having wall thickness of 3mm	m	12,710.98
8.05.12	With HT (11KV) Cables (XLPE) insulated PVC sheathed armoured cables Manufacturer of cable BRB/Paradise/Poly cable/Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.12.1	3Cx25 sq.mm XLPE cable in ground/road through 75 mm PVC pipe having wall thickness of 3mm	m	3,106.04
8.05.12.2	3Cx35 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	3,768.70
8.05.12.3	3Cx50 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	4,517.13
8.05.12.4	3Cx70 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	5,637.17
8.05.12.5	3Cx95 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	6,975.75
8.05.12.6	3Cx120 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	8,196.37
8.05.12.7	3Cx150 sq.mm XLPE cable in ground/road through 100 mm PVC pipe having wall thickness of 3mm	m	9,634.24
8.05.12.8	3Cx185 sq.mm XLPE cable in ground/road through 125 mm PVC pipe having wall thickness of 3mm	m	11,458.02
8.05.13	Telecommunication Cable: Providing and drawing of following size PVC insulated & sheathed twisted pair telecommunication cable through pre-laid pipes.Manufacturer of cable BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.13.01	1C-2x0.282 sq.mm (1 pair)	m	14.35

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8.05.13.02	1C-4x0.282 sq.mm (2 pair)	m	23.32
8.05.13.03	1C-6x0.282 sq.mm (3 pair)	m	34.61
8.05.13.04	1C-8x0.282 sq.mm (4 pair)	m	49.68
8.05.13.05	1C-10x0.282 sq.mm (5pair)	m	58.27
8.05.13.06	1C-12x0.282 sq.mm (6 pair)	m	70.18
8.05.13.07	1C-16x0.282 sq.mm (8 pair)	m	88.92
8.05.13.08	1C-20x0.282 sq.mm (10 pair)	m	111.12
8.05.13.09	1C-40x0.282 sq.mm (20 pair)	m	213.94
8.05.13.10	1C-100x0.282 sq.mm (50 pair)	m	475.41
8.05.13.11	Network Cable, UTP-CAT-6, Brand-Pandit/Systimax/Digi- Link or equivalent.	m	37.19
8.05.14	CO-axial Cable: Providing and drawing of following size PVC insulated & sheathed 75 ohm impedance co-axial cables through pre-laid pipes.Manufacturer of cable BRB/Paradise/Poly cable/ Super sign/BBS or equivalent according to the Specification & direction of the Engineer- in-charge.		
8.05.14.1	4/C CO-axial Cable	m	34.72
8.05.14.2	5/C CO-axial Cable	m	41.65
8.05.14.3	6/C CO-axial Cable	m	54.65
8.05.15	Taking out old wiring including batten and stacking to a preselected place as per directions of the E-I-C.	LS	
8.05.16	Concealed conduit wiring with the following PVC insulated and sheathed stranded cable (NYY)/XLPE insulated and PVC sheathed stranded cable(2xY) & PVC insulated green/white coloured 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 relevant IEC/BDS/BS/VDE standards and as per detailed specification mentioned in Annexure-A. The work shall be carried out as per direction/approval/ acceptance of the Engineer		
8.05.16.1	1C-2x2.5 sq.mm. (NYY) cable with 2.5 sq.mm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm	m	289.41
8.05.16.2	1C-2x4.0 sq.mm. (NYY) cable with 4 sq.mm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm	m	353.40
8.05.16.3	1C-2x6.0 sq.mm. (NYY) cable with 6 sq.mm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm	m	441.22
8.05.16.4	1C-2x10 sq.mm. (NYY) cable with 10 sq.mm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm	m	547.14
8.05.16.5	1C-2x16 sq.mm. (NYY) cable with 16 sq.mm (BYA) ECC wire through PVC pipe of minimum inner dia 32mm having wall thickness of 1.5 mm	m	831.45
8.05.17	Overhead Cable AAC/ACSR: Supplying, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of following PVC insulated aluminum stranded conductor in overhead line at proper sag all complete with necessary accessories such as G.I binding, insulator, wire as required etc.with conductor manufactured by BRB/Paradise OR equivalent accepted/approved by the Engineer-in-charge.		
8.05.17.1	1C-25 sq.mm(GNAT)	m	84.25
8.05.17.2	1C-50 sq.mm(ANT)	m	118.87
8.05.17.3	1C-75 sq.mm(EARWIG)	m	168.88
8.05.17.4	1C-100 sq.mm(WASP)	m	218.89

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1	2	3	4
8.05.18	ELECTRICAL WIRING: Under ground wiring Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Under Ground wiring for the following Points Looping at the Switch board with earth terminal including Circuit wiring with 1c-2x2.5 Sq.mm PVC insulated stranded Sheathed cable (NYY) & 2.5 sq.mm (green) PVC insulated stranded ECC wire (BYA) through PVC conduit (Aziz or equivalent) of 25 mm inner dia wall thickness 2.0 mm, 18 SWG GP Sheet, switch board & Pull box with 3mm thick ebonite sheet cover, brass contact, ceiling rose, fixing materials & all other accessories as required including mending the damages: Manufacturer of cable Eastern/ BRB/Paradise/Poly cable/Super sign/BBS or equivalent according to the specification & direction of the Engineer- in-charge. Garden Light /Gate Light/Security Light point	each	2,321.96
8.05.19	Cable Tray: Supply, fitting,fixing of Cable Tray: 200 mm wide, 100 mm deep, 12 mm inside nosing, cable tray made with 18 SWG GP sheet with capsule hole including enamel paint with necessary clamps, nuts, bolts and other materials for complete installation. Local made. Model and sample to be approved by the E-I-C.	m	3,827.62
8.05.20	Cable Ladder: Supply, fitting,fixing of Cable Ladder: 300 mm wide ladder, made with 40x40x4 mm thick M.S. Angle and 25 mm x 25 mm 18 SWG hollow box steps with 300 mm spacing, all powder coating including welding, necessary clamps, nuts, bolts and other materials for complete. Sample to be approved by the E-I-C.	m	2,942.85
8.05.21	BUSBAR TRUNKING SYSTEM Supplying, delivering, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of bus bar trunking system both feeder and plugging having the following specification:- Rated operation voltage: 1000V 3-phase. Combination of Conductor: 3P+N+Pe Conducting Materials: Copper All bus-bar trunking products and fixing (straight length, elbow, tees, flanged ends, cables tap box and circuit breaker etc.) shall be in accordance with IEC61439;2012 or UL857. All other products (straight length, elbow, tees, flanged ends, cables tap box and circuit breaker etc.) shall be from the same manufacturer as per bus bar trunking system. 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 trunking system with flange, elbow, plug in points and fixing supports. Manufacturer of BBT: Energypac /ADEX or equivalent according to the specification & direction of the Engineer-in-charge.		
8.05.21.1	BUSBAR TRUNKING SYSTEM : 800A	m	44,200.39
8.05.21.2	BUSBAR TRUNKING SYSTEM : 1000A	m	51,955.65
8.05.21.3	BUSBAR TRUNKING SYSTEM : 1250A	m	64,975.98
8.05.21.4	BUSBAR TRUNKING SYSTEM : 1600A	m	95,045.58
8.05.21.5	BUSBAR TRUNKING SYSTEM : 2000A	m	116,050.70
Section-06: Switch Board, Switch and Socket			
8.06.07	Telephone Junction Board: Supply & Installation of Telephone Junction Board or Dish Junction Board (T.J.B & D.J.B) and other accessories completed Brand: Full or equivalent and sample to be approved by the Engineer -In-Charge	each	5,161.20
8.06.1	Supplying, fitting and fixing 20mm thick switch board for fan regulators, lighting switches two pin and at the three pin socket outlets the switch board to be made of teak wood and varnished on all sides etc. all complete as per directions of the E-I-C.		
8.06.1.1	350mmx450mm	each	484.70
8.06.1.2	250mmx350mm	each	370.26
8.06.1.3	200mmx300mm	each	370.26
8.06.1.4	150mmx200mm	each	323.14
8.06.1.5	100mmx150mm	each	282.74
8.06.1.6	100mmx100mm	each	242.35

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8.06.2	Supplying and installation of metal board (Switch/Socket/Regulator) with open front made of 18 SWG B.P sheet with corner of 14 SWG B.P sheet with machine screw duly painted inner and outer surface with gray enamel paint with suitable anchoring arrangement with all wall, column and other places (only back surface of the box will be considered for measurement) and all complete as per design, specification and direction of the E-I-C..	sqm	121.18
8.06.3	Supplying, fitting and fixing 5 Amps 2-pin socket with control switch etc. complete as per drawing & directions of the E-I-C.	each	655.00
8.06.4	Supplying, assembling, fitting, fixing & installation (with effective connection) of 250 volts single phase 3-pin combined switches and socket outlet (Gang type) foreign made MK/Legrand/Hager (Stylea)/ABB/MEM or equivalent brand, mounted on best quality locally made required size 18 SWG galvanized plain sheet board (75mm depth) etc. all complete as per drawings and directions of the E-I-C.		
8.06.4.1	13 amps, Flat pin type	each	577.03
8.06.4.2	15 amps, Round pin type	each	705.26
8.06.4.3	16 amps, Multi Switched Socket	each	851.44
8.06.5	Gang switch & socket: Supplying, assembling, fitting, fixing & installation (with effective connection) on prepared board 250 volt 5 amp concealed type switch/socket with switch (foreign made MK/Legrand/ Hager (Stylea)/ABB /MEM or equivalent brand) mounted on 18 SWG galvanized sheet board 75mm depth with other accessories as per drawing, specification & direction of the Engineer-in-charge..	each	
8.06.5.01	01-gang switch	each	334.92
8.06.5.02	02- gang switch	each	503.28
8.06.5.03	03-gang switch	each	569.56
8.06.5.04	04-gang switch	each	705.54
8.06.5.05	01-gang switch & one 5 amps 2 pin socket	each	930.67
8.06.5.06	Fan regulator(gang type)	each	671.64
8.06.5.07	Call bell push(gang type)	each	995.42
8.06.5.08	Telephone socket(gang type)	each	1,099.03
8.06.5.09	TV socket (gang type)	each	865.91
8.06.5.10	5A piano Switch	each	18.13
8.06.5.11	2-pin 5A Piano Socket	each	56.98
8.06.5.12	20A, Double Pole Switch with neon indicator	each	948.89
8.06.5.13	Fan Regulator with switch	each	802.71
8.06.5.14	Data Socket, RJ-45	each	1,139.95
8.06.6	Supplying, fitting and fixing teak wood battens minimum 12mm thick wooden plug of approved quality etc. for lights, fans and out lets from main switch board to distribution fuse board and from distribution fuse board to individual points in/c varnishing etc. complete as per directions of the E-I-C.		
8.06.6.1	63mm	m	240.57
8.06.6.2	50mm	m	236.68
8.06.6.3	40mm	m	230.21
8.06.6.4	25mm	m	213.37
8.06.6.5	20mm	m	208.19
8.06.6.6	12mm	m	208.19

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Section-07: Earthing and Thunder Protection

8.07.1	Earthing the electrical installation with 38mm dia GI pipe (earth electrode) having 6mm dia holes across the dia at 1.0m interval securedly bonded with 2 SWG HDBC earth lead with washer, nuts, bolts etc. sunk upto under-mentioned depth and protection of earth lead by 12mm dia GI pipe upto plinth level run at a depth of 6.6m below G.L upto main board to be earthed in/c necessary connecting copper sockets, bolts, nuts, in/c additional vertical run of 12mm dia GI pipe upto G.L. from 6.6m depth with blind socket for water pouring facility etc. all complete for maintaining earth resistance within 1 ohm.	each set	
8.07.1.01	Depth of main electrode at 12.0m and length of the electrode 11.0 m	set	24,150.57
8.07.1.02	Depth of main electrode at 35-40m	set	40,872.86
8.07.2	Supply and installation of electrolytic annealed copper/PVC single core green earth continuity conductor along with cable in pre-installed conduit/cable tray including connection to various metallic parts etc. all complete as per drawings, specifications and direction of the Engineer of the following :		
8.07.2.1	1.5mm ² Green	m	28.49
8.07.2.2	2.5mm ² Green	m	45.33
8.07.2.3	HDBC wire		
8.07.2.3.1	18 SWG	m	44.03
8.07.2.3.2	12 SWG	m	68.64
8.07.2.3.3	8 SWG	m	164.48
8.07.2.3.4	6 SWG	m	237.00
8.07.2.3.5	4 SWG	m	327.66
8.07.2.3.6	2 SWG	m	530.99
8.07.3	Supplying, fitting and fixing of single lightning arrester on the top of the building 1.22m long 12mm dia GI pipe and clamp with bolts and 3mm mounted air spike. Top of the lightning arrester should be soldered and other fittings required etc. all complete in all respects as per directions of the E-I-C.	set	1,409.55
8.07.4	Earthing for LPS : Supply & installation (with effective connection) of 10'-0" Solid Copper Rod (min. 12.7mm dia) under 2'-0" from FGL at 2'-0" from building premises , Connecting the rod with Lightning Arrester by 7.5mm dia copper wire (#2SWG), Copper bracket etc. (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in charge.	each	11,399.52
8.07.5	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-inforcement 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.	each	7,642.42
8.07.6	Early Streamer Emission (ESE) Lightning Protection system		
8.07.6.1	Lightning Arrester: Supply, Installation, Testing & Commissioning of Early Streamer Emission Air Terminal (ESEAT) based on collection volume method (CVM) as per IEEE 998-2012 having the following technical specification -Withstand peak lightning current : 100 KAWeather condition of work : All Material of Lightning Air terminal should be able to work any environment condition. Dimension of the Air Terminal :Minimum Length : 220 mm, 25mm dia solid rod at the bottom of the Air Terminal having M20 male thread to fix on mast.Certified advance Time :Maximum 60 μ second with a current peak higher than 100 KA.Material of the Air Terminal : Stainless Steel Type AISI316Weight: 2.25 – 2.5 kg.Radius of Protection : 90 – 100 meter at 5 meter height from the plan.Product Certification and Standards: Standards: IEC 62305-2 and NFC 17102, (UL Listed).Brand and Model: Brand: ABB or equivalentModel: ABB OPR 60 or equivalentManufactured and Made in: France/ EU Countriesas per direction and sample approved by the engineer-in-charge.	each	291,489.19

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8.07.6.2	Stroke Counter: Supply, Installation, Testing & commissioning of lightning event counter & recorder 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. Brand: ABB or equivalent Standard: UL Listed Manufactured and Made in : France/ EU Countries as per direction and sample approved by the engineer-in-charge.	each	45,572.43
8.07.6.3	Surge Protection Device (SPD): Supply, Installation, Testing & Commissioning of Surge Protection Device (SPD) for protection of overhead line connected to LT line. Capacity: 80 kA 4 Pole with wiring and SPD box. Brand: ABB or equivalent Manufactured and Made in : France/ EU Countries as per direction and sample approved by the engineer-in-charge.	each	61,601.01
8.07.6.4	Air Terminal Mast: Supply, Installation, Testing & Commissioning of Air Terminal Mast of the following specification - 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 direction and sample approved by the engineer-in-charge.	each	2,116.14
8.07.6.5	GI Tower: Construction of either GI or MS with epoxy paint Tower with the following Specifications: GI Pole: Dia 3" Length: 15 feet (L-10', D-3" ; L-5', D-2" dia) duly powder coating painted with epoxy polyester resin. There will be minimum 3 Guy wire for erection of the pole properly. the base of the pole and guy will be installed by CC on the roof-top & the size will be as required to hold the pole at any circumstance etc. complete as per direction of engineer-in-charge.	each	12,938.26
8.07.6.6	Down/Roof Conductor: Supply & drawing of copper made down/roof conductor having dia 12.7mm or copper strip (30mm x 2mm) through conduit with fixing holder on vertical & horizontal surfaces. Fixing the conductor with holder at every 300 mm as per direction and sample approved by the engineer-in-charge.	each	2,583.81
8.07.6.7	Earth Test Box: Supply & 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 as per direction and sample approved by the engineer-in-charge.	each	1,763.14
8.07.6.8	Aviation Light: Supply & Installation of aviation light fittings with LED lamp, day light sensor, wiring by 1C-2x1.5 sq.mm cable (NYY) with ECC. The aviation Light shall be fixed below the air terminal on GI Pipe (GI Bracket) with necessary fixing material as per direction and sample approved by the engineer-in-charge.	each	9,411.98
8.07.6.9	Earthing with Inspection Pit: Construction of Earthing (2 nos.) for the Lightning Arrester in the following way-Soil Digging : Size- 3000mm x 400mm x 400mm (2 nos.)Construction of 2 nos Pits by brick and RCC slab on it. On the top slab there will be hole and a pit cover made by cast iron.Size of the Pit : (600mm x6000mm x6000mm) (2 nos.)Copper Plate: (300mm x150mm x 15mm) (2 nos.)Copper plate will be fixed with the electrode (copper rod or Copper Strip) by necessary fixing materials made of copper.Copper Electrode (12.7 mm dia Solid Copper Rod or copper strip (30mm x 2mm). Length of Copper rod or Strip: minimum 20M (10+10)=20 Meter.Ground enhancing Materials (40+40)= 80 kg(2 Nos. of earthing is consider 1 Set)etc. complete as per direction of the engineer-in-charge.	each	132,027.34

Section-08: Miscellaneous

8.08.1	Laying medium pressure under ground cable of different sizes etc. all complete by cutting trench on the following measurements on a layer of 150mm thick sand cushion. The cable should be protected by a single layer 1st class brick soling etc. all complete as per directions of the E-I-C.		
8.08.1.1	450mm wide and 900mm depth	m	313.00

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8.08.1.2	450mm wide and 600mm depth	m	295.66
8.08.2	Supplying, fitting and fixing PVC pipe for service line and sleeves for electrical wiring when it passes through wall etc. all complete as per directions of the E-I-C.		
8.08.2.1	40mm dia	m	196.34
8.08.2.2	25mm dia	m	130.90
8.08.2.3	20mm dia	m	74.99
8.08.2.4	12mm dia	m	61.67
8.08.3	Supplying, fitting and fixing 250 volts electric buzzer complete set including push bottom switch, required length of PVC twin flexible cord, 25w bulb, brass batten holder etc. all complete as per directions (Foreign made or prior approved quality) of the E-I-C.	set	1,544.14
8.08.4	Supplying all materials as per requirement of power development board for service connection from PDB pole to the desired structure and any other charges (e.g. security deposit, connection fee, meter installation, testing fee) required by the power development board for supply of power to the desired structure through underground cable/overhead line etc. complete as per direction of the E-I-C.		
8.08.4.1	For 3-phase	LS	
8.08.4.2	For 1-phase	LS	

Section-09: Ceiling and Exhaust Fan Fittings

8.09.1	Supplying, fitting and fixing 250V capacitor type ceiling fan complete with concealed condensers, canopies and required length of rods, ceiling roses, wooden round blocks, regulator, switches and required length of flexible wire etc.. all complete as per drawings and directions of the E-I-C. Brand:BRB/Energypac or equivalent approved by Engineer in charge		
8.09.1.1	1.422m sweep (best quality)	each	4,070.27
8.09.1.2	1.22m sweep (best quality)	each	3,584.60
8.09.1.3	.914m sweep (best quality)	each	2,956.47
8.09.1.4	wall bracket fan 16" sweep plastic body & blade	each	3,239.33
8.09.1.5	wall bracket fan 16" sweep steel body & blade	each	3,951.64
8.09.1.6	Fan clamp box type : Supplying, fitting & fixing of box type fan clamp made of 25 mm x 6.35 mm MS flat bar with 16 mm diameter MS hook including necessary bolts, nuts, etc	each	262.17
8.09.1.7	Fan clamp 'U' type : Supplying, fitting & fixing of 'U' type fan clamp made of 16 mm diameter MS rod or according to the specification	each	262.04
8.09.2	Supplying, fitting and fixing 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 in/c cutting wall and mending good the damages etc. all complete as per directions of the E-I-C.		
8.09.2.1	600mm sweep (best quality)	each	6,974.16
8.09.2.2	450mm sweep (best quality)	each	4,320.48
8.09.2.3	400mm sweep (best quality)	each	4,124.92
8.09.2.4	300mm sweep (best quality)	each	3,801.14
8.09.3	Repairing of ceiling fan and supplying necessary accessories as per directions of the E-I-C.		
8.09.3.1	Repairing of ceiling fan	set	1,056.48
8.09.3.2	Bearing supply	pair	129.51
8.09.3.3	Capacitor supply	each	155.41
8.09.3.4	Old blade bending (three blade) and spray painting including body.	set	341.62
8.09.3.5	Supply of approved quality regulator	each	751.16

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Section-10: Light Fittings

8.10.01	Saucer Light : Supplying, assembling, fitting, fixing & installation (with effective connection) the special type single lamp lock type saucer light fitting of following manufacturers consisting of golden/anodized brass carrier of minimum 250mm dia designed glass of min. height 100mm suitable for carrier, brass holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable, compatible for 23/26 W CFI etc. complete (except lamp) of the following model & as per sample approved by the Engineer-in-charge Asha cat No. ACSP-2816 or Anyasha cat No.ACCMS-71 or Crescent cat No. CPC-29-CP-29 or Gloria cat No. GCF-689 Ring or Shwash cat No. SCCF-12/28 or equivalent approved by the Engineer-in-charge.	set	1,166.57
8.10.02	Bracket Light: Supplying, assembling, fitting, fixing & installation (with effective connection) the fancy Single bracket light fitting of following manufacturers consisting of designed glass shade of breadth 150mm minimum total height of fitting 200mm, oxidized or chromium plated/golden brass bracket with carrier, brass holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable etc. complete (except lamp) of following model & as per sample approved by the Engineer Asha cat No.ACSBS-3778 G 529 GB or Crescent cat No. CB-431-592 FR or Gloria cat No. GWB-1501-2101 FR or Shwash cat No. SCS-447	set	1,101.81
8.10.03	Mirror light: Supplying, assembling, fitting, fixing & installation (with effective connection) the Bath-room light fitting of following manufacturers consisting of oxidized/chromium plated brass frame with carrier, cylindrical type glass shade of minimum dia 78mm (minimum total length of fitting 325mm), brass holder, earth terminal, necessary wiring with 2x0.4 sq.mm stranded PVC insulated flexible FR cable etc complete of following model & as per sample accepted by the engineer-in -charge. Asha cat no. ACSBB-2876 or Crescent cat. No.CB-807/6-t6-DGN or Gloria cat no. GBB-399-1802-CR/BR or equivalent product.	set	713.28
8.10.04	Pendent Light : Supplying, assembling, fitting, fixing & installation (with effective connection) of stiff pendent light fitting of the following manufacturers (as per picture No. PWD Sch.-1.9) consisting of anodized reflective body of 550mm dia, 150mm long pipe of 3/4" dia, total length of fitting 440mm, with ceiling base, thread type ceramic holder, earth terminal, necessary wiring with 2x0.4 sq.mm stranded PVC insulated flexible cable etc. complete (except lamp) of the following model and as per sample approved by the Engineer-in-charge. Asha cat no. ASS-C-228 or Crescent cat No.CML-527 or Gloria cat No. GCF-1198/85 or Swash cat No. SCH-218(1) or equivalent approved by the enginer in charge	set	2,785.45
8.10.05	Foot Light: Supplying, assembling, fitting, fixing & installation (with effective connection) the outdoor type foot light fitting of following manufacturers (as per figure no. 11.1, PWD schedule) suitable for mounting recessed wall/step consisting of cast aluminum robust housing of min breadth 250mm and height 100 mm water proof louver type diffuser polished alluminum reflector with fixing materials rubber, gasket, lamp cap (including LED type lamp), necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable, etc. complete of the following model & as per sample approved by the Engineer in charge Asha cat No. ACSF-2770 or Crescent cat No.-CML184 or Gloria cat No. GFL-01 Shwash cat no. Shwash Foot light	set	1,231.32
8.10.06	Supplying, fitting and fixing 1.22m long 40 watt fluorescent tube light with necessary superior quality ballast, starter, condenser, holders, 18 SWG sheet steel stove enamel base, etc. all complete as per drawing and directions of the E-I-C. Each lamp is to be operated by one way switch. (Eastern or prior approved quality)	set	933.45

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8.10.07	Supplying, fitting and fixing 450mm dia flood light fitting consisting of 20 SWG aluminium sheet body, anodized aluminium reflector, screw type holder, heat proof glass cover, glass ring MS flat bar stand and 500 watt lamp etc. all complete as per direction (Model No. SCFT or prior approved quality) of the E-I-C.	set	12,241.83
8.10.08	Supplying, fitting and fixing metallic cone shade with brass batten holder as per directions of the E-I-C.	each	436.23
8.10.09	Supplying, fitting and fixing metallic cone shade with brass pendent holder ceiling rose, required length of flexible wire as per directions of the E-I-C.	each	444.31
8.10.10	Repairing of fluorescent tube light and supplying necessary accessories as per directions of the E-I-C. (Eastern or prior approved quality)		
8.10.10.1	1.20m 40 watt. fluorescent tube	each	164.48
8.10.10.2	Choke	each	414.43
8.10.10.3	Holder	pair	168.36
8.10.10.4	Starter	each	34.32
8.10.10.5	Condenser	each	382.06
8.10.11	Supplying, fitting and fixing signal light with brass batten holder in/c coloured bulb, etc. all complete as per direction of the E-I-C.	set	1,903.81
8.10.12	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1*4'40 watt Fluorescent tube light fitting of consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 104mm, superior quality electronic ballast with one year guarantee, holder, necessary wiring with 2*0.4 sq mm PVC insulated (stranded) flexible fr wire, earth terminal etc. complete (except lamp) of following model & as per sample approved by Engineer. Gloria cat no. GTF-899*1*40 watt or equivalent approved by Engineer-in-charge.	set	1,633.38
8.10.13	Louver type Double Tube Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 2x4'x40 watt Louver type fluorescent tube light fitting (ceiling hanging) of following manufacturers consisting of powder coated 22 SWG sheet steel frame of minimum length of 1340mm & breath 165mm, superior quality electronic ballast holder, earth terminal, necessary wiring with 2x1.5sq.mm insulated and sheathed wire etc. complete (except lamp) of the following model & as per sample approved by the Engineer	set	1,793.66
8.10.14	Flood Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of the following manufacturers having min. total length 460mm, consisting of aluminum sheet body of min. dia 460mm, polished aluminum reflector, screw type holder, earth terminal cast aluminum/iron adjustable stand, heat proof galss cover, necessary wiring with FR cable for use with 500/1000W lamp etc. complete of the following model & as per sample approved by the engineer in charge. Asha cat No. ACSFL-972 or Crescent cat No. CFLD-11 or Gloria cat No. GFL-730x1x500/1000W or Shwash cat No.-SCFL-21/84 or equivalent	set	8,685.95
8.10.15	EMERGENCY EXIT LIGHT Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 250 volt grade Exit light fitting of die-cast aluminium robust housing with anodized aluminium reflector, heat proof/ toughened glass, silicon rubber gasket, lamp holder, etc. complete with prime coating and best quality powder coated paint suitable to use with Par-38 lamp (with lamp) of following model & as per sample approved by the Engineer-in-charge. Crescent cat. No. CTLS-189 (EXIT) Gloria cat. No. GWT-EXIT Light Shwash cat. No. Exit Light (Both Side) or equivalent approved by the Engineering-in-Charge.	set	2,082.18

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8.10.16	Ceiling Concealed Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of concealed type spot light fitting of following manufacturers consisting of steel sheet base and arm having powder coated paint and inside aluminium reflector of min. 104mm dia 182mm height compatible for 23/26W CFL E-27 holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable, etc. complete (except lamp) of the following model & as per sample approved by the Engineering-in-Charge.	set	831.95
8.10.17	Ceiling Light (Surface Type): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of spot light fitting of following manufacturers consisting of minimum 114mm dia 203mm high cylindrical powder coated aluminium shade, brass holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable, compatible for 23/26 W CFL etc. complete (except lamp) of the following model & as per sample approved by the Engineer	set	864.00
8.10.18	Boundary Security Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Glass/Acrylic Globe boundary light fitting consisting of aluminium sheet cover with cast aluminium base, duly painted with DUCO wrinkle/place paint, design glass globe of min. dia 330mm and height 420mm with brass holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable etc. complete suitable for use of energy saving lamp of following model and sample approved by the Engineer	set	2,466.86
8.10.19	Gate Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Speaker type special bollard light fitting consisting of cast aluminum body duly painted with DUCO wrinkle paint, acrylic luminous cover of min. dia 195mm and height 1050mm with brass holder, earth terminal, necessary wiring with 2x0.4sq.mm stranded PVC insulated flexible FR cable etc. complete suitable for use of energy saving lamp of following brand (Gloria/crescent/asha) and sample approved by the Engineer.	set	6,441.95
8.10.20	Street Light Fitting: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of black die-casting aluminium body of , polisged aluminium reflector, suitable for 50mm dia Bracket for pole mounting, E-40 holder, ballast (Philips/Harmonics/ GE), necessary wiring suitable for use with 65/85 watt enegry saving lamp etc. with earth terminal complete & as per sample approved by the Engineer.	set	5,416.12
8.10.21	Louverset 2'x2': Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 4x2'x20 watt Fluorescent tube light fitting (concealed type) with v-grid louver of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 600mm & breadth 600mm, symmetrical mirror reflector of anodized, superior quality electronic ballast with one year guarantee, holder necessary wiring with 2x0.4sq.m PVC insulated flexible FR wire earth terminal etc complete of following model & as per sample approved by the engineer. Asha cat No. ACSTLS 356X4X20 watt Crescent cat No. CTLS-96X4X20 watt Gloria cat No. GTF 851X4X20 watt V Grid	set	4,005.60
8.10.22	Supplying, fitting and fixing mushroom type garden light of 350mm dia at top portion, 250mm height and having 20 SWG aluminium casting with green colour. The garden light should be installed on 300mmx300mmx13mm size base plate as per directions of the E-I-C. (Swash model No. SCGL 21 or any equivalent prior approved model). The rate excludes the cost of base plate.	each	2,466.86
8.10.23	Supplying, fitting and fixing 300mmx300mmx13mm size base plate placing on CC foundation in/c required size of nuts, bolts and two coats of red oxide paint complete and as per directions of the E-I-C. The rate excludes the cost of CC.	set	839.26
8.10.24	Supplying, fitting and fixing gate light fitting of minimum 610mm high consisting of hexagonal conical shaped polished brass made body, frosted fancy glass cover, brass holder, necessary wiring etc. complete (except lamp) of suitable for 38mm dia GI pipe post of following model as per sample approved by the E-I-C. (Model No. CG-14 Crescent or any equivalent prior approved quality).	each	2,844.06

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8.10.25	GI Pole (L-25'): Supplying, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of G.I pole fabricated with G.I pipe completed with G.I sockets, top cover, necessary welding as required: Total 7.62m (25'-0") long GI pole having dia 113.30mm~114.90mm & wall thickness 4mm of length 4.572m at bottom and dia 87.90mm~88.70mm & wall thickness 3mm of length 3.05m at top, including supplying and installation of 275mmx275mmx16mm MS steel base plate at bottom of the pole, all complete as per approved drawing, specification & direction of Engineer-In -Charge	each	22,927.27
8.10.26	GI Pole (L-30'): Supplying, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of total 9.325m long GI pole having dia 164.00mm~166.00mm & wall thickness 4.75mm of length 5.525m at bottom and dia 87.90mm~88.70mm & wall thickness 3mm of length 3.80m at top, including supplying and installation of 275mmx275mmx16mm MS steel base plate at bottom of the pole, all complete as per approved drawing, specification & direction of Engineer-In -Charge.	each	32,287.95
8.10.27	Pole Light Fitting: Supply, fitting fixing, testing & Commissioning of Metal halide flood light fitting as of following manufacturers (as per picture No. 10.2) consisting of black die-cast aluminium body of min. length 635mm & breadth 270mm, 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 250 watt metal halide lamp etc. with earth terminal complete with 250 watt metal halide lamp (Phillips /Harmonics/GE) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSM-3730(Metal) or Harmonics cat No. HPL-STL1003/250 MH or Crescent cat No. CST-1011/250 W MH or Shwash cat No. SCFL-9 MHRL-250 Watt or equivalent product.	each	23,386.33
8.10.28	Saucer Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Saucer light fitting (with round fluorescent tube) of following manufacturers consisting of powder coated aluminium carrier & acrylic circular cover of minimum dia 350mm & height 120mm, holder, electronic ballast with one year guarantee, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc. compatible for 18/20 W RT complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CML - 42(32W R/T) or Gloria cat No. GCF- 801X1"X36 Watt Opel or Shwash cat No. SCCF (TFR)- 1/84 or equivalent product.	each	2,254.26
8.10.29	Saucer Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fancy Saucer light fitting (suitable for 18/20 W fluorescent round tube) of following manufacturers consisting of powder coated steel carrier of min. dia 264mm, acrylic semicircular shade of height 90mm suitable for the carrier, holder, superior quality electronic ballast with one year guarantee, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CPM 56 (22Watt R/T) or Gloria cat No. GCF-884x1x22 watt or Shwash cat No. SCTFR- 4x22 watt or equivalent product.	each	2,587.65
8.10.30	Bracket Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fancy single bracket light fitting of following manufacturers consisting of half round designed glass shade of minimum breadth 233mm, minimum total height of fitting 194mm, golden oxidized or chromium plated/ brass bracket with carrier, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CB-790-906 or Gloria cat No. GWB-2781-2418 FR or Shwash cat No. SCSB- 207 - CF Glass or equivalent product.	each	1,331.01

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8.10.31	Bracket Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fancy single bracket light fitting of following manufacturers consisting of half round half bowl type white acrylic sheet & lacquered chromium plated steel sheet base of minimum dia 285 mm & height 150 mm, with CFL compatible shade with brass holder, earth terminal, necessary wiring with 2 x 0.4 sq. mm stranded PVC insulated flexible FR cable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSBS- 64 (H-SON) or Crescent cat No. CB-1199(ACR) CFL or Gloria cat No. GWB-1795-2155 CR(white) or Shwash cat No.SCSB-448 HUF MOON or equivalent product.	each	1,433.60
8.10.32	Mirror light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Double lamp bath-room light fitting of following manufacturers consisting of powder coated steel base with carrier, brass holder, cylindrical glass shade of minimum dia 100mm (minimum total length of fitting 330mm), earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSBB 2810 or Crescent cat No. CBB-4/12-T12-P or Gloria cat No. GBB-953-1803 D/CUT or Shwash cat No. SCB- 33-12"PL or Anyasha cat No. ACBF-31-12"T or equivalent product.	each	1,331.01
8.10.33	Pendent Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fancy Pendent light fitting of following manufacturers consisting of frosted ornamental designed glass of dia518mm, Golden /oxidized/ chromium plated brass carrier, brass holder, suspended by golden brass chain of required length where total length of fitting 600mm, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ASSCP-209 or Crescent cat No. CML-362 or Gloria cat No.GCF-3115-2422 or Shwash cat. No. SCH-10 (RLM New) orr equivalent product.	each	2,712.03
8.10.34	Pendent Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of High Bay Light fitting suitable for 1x 85watt energy saving lamp of following manufacturers consisting of 325 mm. dia. inside & outside powder coated aluminium sheet body , height of 820 mm, covered with heat proof glass, E - 27 Porcelain Holder, suspended by oxidized/ chromium / plated golden brass chain/ stick of required length, Earth terminal, necessary wiring with 2 x 0.4 Sq. mm. stranded PVC insulated round FR Cable with ceiling base etc. complete (Except Lamp) of following model & as per sample accepted/approved by the Engineer.	each	3,126.21
8.10.35	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 60mm, designed acrylic sheet cover, superior quality electronic ballast of one year guarantee, holder, necessary wiring with 2 X 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type Crescent cat No. CTLS- 11 x1 x 40 watt Dgn or Gloria cat No. GTF- 755 x 1 x 40 watt Dgn or Asha cat No. ACSTLS 317x 1x 40 watt Shwash cat No. SCTF- 34x 1 x 40 watt or equivalent product.	each	1,895.22

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8.10.36	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1x 4' x 40 watt Fluorescent tube light fitting of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1213mm & breadth 175mm, symmetrical mirror reflector of anodized aluminum, superior quality electronic ballast with one year guarantee, holder, necessary wiring cable with 2 x 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Ceiling / wall mounted type : Crescent cat No. CTLS- 101 x1 x 40 watt or Gloria cat No. GTF- 807x 1 x 40 watt or Asha cat No. ACSTLS-339 x 1x 40 watt or Shwash cat No. SCTF- 24/85 x 1 x 40 watt or Anyasha cat No. ACTLS 84 x 1x 40 watt or equivalent product.	each	2,997.98
8.10.37	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light Louver fitting (ceiling mounted) of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 104mm, superior quality electronic ballast with one year guarantee, holder, necessary wiring with 2 x 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Gloria cat No. GTF- 892 x1 x40 watt or Crescent cat No. CTLS- 225x1x40 (G) or Shwash cat No -CATA (CH) or Asha cat No. ACSTLS 307 x1x 40 watt or equivalent product.	each	2,074.74
8.10.38	Single Tube Light Set : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1 x 4' x 40 watt Fluorescent tube light fitting (ceiling mounted & with design perspex sheet/cover) of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 1240mm & breadth 104mm , superior quality electronic ballast with one year guarantee, holder, , necessary wiring with 2 x 0.4 sq mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Gloria cat No. GTF- 899 x1 x40 watt or Crescent cat No. CTLS- 225x1x40 (P) or Shwash cat No -SCTF-40 AX1X40 W or Asha cat No. ACSTLS 373 x1 x 40 watt Anyasha cat No. ACTLS 103 x1 x 40 watt or equivalent product.	each	2,126.03
8.10.39	Double Tube Set: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 4 x 2'x 23 watt Compact Fluorescent light (CFL) fitting (False ceiling mounted concealed type) of following manufacturers consisting of powder coated 22 SWG sheet steel frame of min. length 600mm & breadth 600mm, designed prismatic sheet cover, superior quality E-27 holder, necessary wiring with 2 x 0.4 sq.mm PVC insulated (stranded) flexible FR wire, earth terminal etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Gloria cat No. GTF 924x4x23 watt CFL or Asha cat No. ACSTLS 391 x 4 x 20/23 watt Crescent cat No. CTLS-230x4x23 W (CFL) or Shwash cat No -SCTF-33X4X20 CFL or equivalent product.	each	4,100.75
8.10.40	Flood Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Flood light fitting with high pressure sodium lamp of following manufacturers having minimum breadth 410mm & height 300mm, back side cover of 145mm width, total height with stand 510mm, black color housing, consisting of aluminum die-casting body coated with epoxy powder, high purity anodized aluminum reflector, terminal resistant tempered glass cover , 250 W Sodium lamp, ignitor, 25 mfd capacitor, control gear, best quality E-40 holder, earth terminal, cast aluminum /iron adjustable stand, necessary wiring with FR cable suitable for use with 250 watt lamp etc. complete of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSFL-40 (250 W) or Harmonics cat No. HPL-MHL 1027/250HPS or Crescent cat No. CMHLD-02-250 W-HPS Shwash cat No.SCFL-8.5 MH-250 W or equivalent product.	each	21,616.77

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8.10.41	Flood Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Flood light fitting with metal halide lamp of following manufacturers having min. total length 460mm, black color housing consisting of aluminum sheet/die-casting body of min. dia 460mm & coated with epoxy powder, high purity anodized aluminum reflector, terminal resistant tempered glass cover, 400W flood light lamp, ignitor, 40mfd capacitor, control gear, best quality E-40 holder, earth terminal, cast aluminum /iron adjustable stand, necessary wiring with FR cable suitable for use with 400 watt lamp etc. complete of following model & as per sample accepted/approved by the Engineer.(suitable for upward high rise long beam glowing) Asha cat No. ACSF-3701 or Gloria cat No. GFL 734 x 1x 400 W MH or Crescent cat No. CFLD-03-400 WM/H or Shwash cat No.SCFL-1001/400 W or equivalent product.	each	24,232.64
8.10.42	LED Flood: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of LED Flood light fitting with earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable, base foundation etc. complete of following specification & as per sample accepted/approved by the Engineer Power : 50W Driver : Standard, 90V-265V Housing : Aluminium Injection Body IP : IP65, Colour Temp. =6500 Kelvin Beam -120o Brand & Origin: EAE/OSRAM/PHILIPS, EU/USA	each	6,716.61
8.10.43	LED Flood: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of LED Flood light fitting with earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable, base foundation etc. complete of following specification & as per sample accepted/approved by the Engineer Power : 100W Driver : Standard, 90V-265V Housing : Aluminium Injection Body IP : IP65, Colour Temp. =6500 Kelvin Beam -120o Brand & Origin: EAE/OSRAM/PHILIPS, EU/USA	each	13,128.04
8.10.44	Ceiling Concealed Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Spot light fitting of following manufacturers consisting of powder coated white aluminium body of minimum dia 130mm at bottom (minimum total height of shade 160mm) & cast aluminium bracket, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable etc., compatible for 15/18 watt CFL, complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSS-2887 or Crescent cat No. CML - 149 or Gloria cat No. GSL- 401 or Shwash cat No. SCSL- 20 (B) or Anyasha cat No. ACSL-1012 or equivalent product.	each	984.80
8.10.45	Ceiling Concealed Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Concealed type Spot Light fitting of following manufacturers consisting of min. 120 mm. dia & 184mm height Steel Sheet Carrier (body & arms) with Powder coated Paint & inside powder coated white reflector, E – 27 Holder, Earth terminal, necessary wiring with 2 x 0.4 Sq. mm. Stranded PVC insulated flexible FR Cable etc., suitable for 18/20 watt CFL, Complete (Except Lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSP-3670 or Gloria cat No. GDL 377 or Crescent cat No. CML-177 or Shwash cat No -SCCSL-1 Brass or equivalent product.	each	1,228.43

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8.10.46	Ceiling Concealed Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Concealed type Spot Light fitting of following manufacturers consisting of min. 152 mm. dia & 114 mm height Cylindrical aluminium shade having Powder coated Paint & inside chromium plated brass reflector, E – 27 Holder, Earth terminal, necessary wiring with 2 x 0.4 Sq. mm. Stranded PVC insulated flexible FR Cable etc., suitable for 15/18 watt CFL, Complete (Except Lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSS-2852 or Gloria cat No. GDL 378(B) AL/CHB or Crescent cat No. CML-58 or Shwash cat No -SCCSL-6 Charuta (M) or equivalent product.	each	1,536.18
8.10.47	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Special type Bollard light fitting of following manufacturers having minimum total height 455 mm & dia 225 mm, consisting of cast aluminium body, aluminium louver, mounted on 50.8 mm (2") dia G.I. pipe with base duly painted with DUCO hammer/wrinkle paint, acrylic luminous cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable & suitable to be fitted on prepared C.C base, complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CG-74 or Gloria cat No. GGL-307 or Shwash cat No. SCGL-37 or equivalent product.	each	3,959.70
8.10.48	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Garden light fitting of following manufacturers having minimum total height 1090 mm, consisting of Aluminium cast top cover & cast Aluminum base, Vertical support with Steel Sheet frame (dia 300mm at top) duly Painted with Wrinkle / Powder coated Paint, Clear glass cover, Brass Holder, earth terminal, necessary wiring with 2 x 0.4 Sq. mm. Stranded PVC insulated flexible FR Cable, etc. Complete to be fitted on 740mm GI pipe (38mm dia) (except Lamp, except pipe) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSGL-994 or Crescent cat No. CGL-82 or Gloria cat No. GGD-268 or Shwash cat No -SCGD-40 New garden light or equivalent product.	each	5,690.78
8.10.49	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Glass/Acrylic Globe light fitting of following manufacturers having minimum total height 420 mm, consisting of cast aluminium base duly painted with DUCO wrinkle/ place paint, plain glass shade of min. dia 330 mm, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete suitable for use of energy savings lamps (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACS-GL 978 (16") or Crescent cat No. CG-100-G-16" or Shwash cat No -SCGL-12" Globe or equivalent product.	each	4,203.33
8.10.50	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Bollard light fitting of following manufacturers having minimum total height 1110 mm & upper part dia 205 mm & made of cast aluminium body, acrylic luminous cover etc. mounted on 50.8 mm (2") dia G.I pipe with base plate duly painted with DUCO hammer/wrinkle paint polished aluminium reflector, acrylic luminous cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable & suitable to be fitted on C.C base, complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CGL-27 or Gloria cat No. GBL-253 or Shwash cat No. SCBL-2(ALU) or equivalent product.	each	7,614.21

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1	2	3	4
8.10.51	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Special type Bollard light fitting of following manufacturers with minimum total height 900 mm & dia 235 mm , consisting of cast aluminium body, mounted on 50.8 mm (2") dia G.I. pipe with base, duly painted with DUCO hammer/wrinkle paint, acrylic luminous cover, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable & suitable to be fitted on prepared C.C base, complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CGL-36 or Gloria cat No. GBL-263 or Shwash cat No. SCBL-11(Big) or Asha cat No. ACSBL-2954 or equivalent product.	each	3,428.83
8.10.52	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fancy Gate light fitting of following manufacturers having minimum height 420 mm, (shade top dia 195mm), consisting of cast aluminium cover with cast aluminium base, duly painted with DUCO paint, design glass, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete suitable for use of energy savings lamps (except lamp) of following model & as per sample accepted/approved by the Engineer. Crescent cat No. CGL-67 or Asha cat No. ACSGL- 976 or Gloria cat No. GGL-295(B) or Shwash cat No -New gate light SCGL-40 or equivalent product.	each	3,068.51
8.10.53	Boundary/Garden Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Garden light fitting of following manufacturers having minimum total height 930 mm , consisting of 300mm height & 195mm dia cast aluminium shade (top & bottom cover including louver type middle part) , 630 mm GI pipe of 50mm dia & cast aluminium base duly painted DUCO wrinkle/ place paint, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete suitable to be fitted on prepared C.C. base & for use of energy saving lamps (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSWGL-9307 or Gloria cat No. GBL 284 or Shwash cat No.SCBL-12 or equivalent product.	each	7,652.68
8.10.54	Security Light (Water Tight): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Special type Security light fitting of following manufacturers consisting of maroon color powder coated steel sheet body of 205 mm length & 110mm breadth, thickness 100 mm, cover of glass, brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSBF (WT) 2019 or Gloria cat No. GWT 363 Glass or Crescent cat No. CML- 140 GL or Shwash cat No -BF (WT)-Glass or equivalent product.	each	1,411.80
8.10.55	Security Light (Water Tight): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Special type W.T light fitting of following manufacturers consisting of cast aluminium base of min. length 205mm, splited aluminium cover, (breadth of fitting 135mm) brass holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete (except lamp) of following model & as per sample approved by the Engineer . Crescent cat No. CBH- 20 or Gloria cat No. GWT-711 or Shwash cat No. BF(WT)-7 or equivalent product.	each	1,411.80

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1	2	3	4
8.10.56	Street light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 150 W Road light fitting with high pressure Sodium lamp of following manufacturers of length 530mm, breadth 240mm, height 235 mm, consisting of epoxy powder coated grey colour Aluminium die-casting body, high purity anodized aluminium reflector, terminal resistant tempered frosted glass cover, 150 W high pressure sodium lamp, E-40/E-27 holder, Ignitor, 12 mfd Capacitor, control gear, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable & mountable on 38.1 mm (1.5") dia G.I pipe bracket etc. complete (with lamp) of following model & as per sample accepted/approved by the Engineer. Harmonics cat No. HPL-STL1001 /150 HPS OR Asha cat No. ACS RL- 3747(CFL) or Crescent Cat No-CST-1010-150 watt or Shwash cat No -SCSLR-1006X1X150 W or equivalent product.	each	17,000.54
8.10.57	Street light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1x85 W CFL Street light fitting of following manufacturers consisting of powder coated black/grey painted steel sheet body of breadth 310mm& length 425mm , clear heat proof glass cover, E-27 holder, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable & mountable on 38.1 mm (1.5") dia G.I pipe bracket etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Gloria cat No. GRL 746x1x85W CFL or Asha cat No. ACS RL- 3723(CFL) or Crescent Cat No-CST-1007 or Shwash cat No -SCRL-6 (SM) or equivalent product.	each	7,017.95
8.10.58	Street light: LED LIGHT Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of LED Street light fitting with earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible Frcable & mountable on 38.1 mm (1.5") dia G.I pipe bracket etc. complete of following specification & as per sample accepted/approved by the Engineer Power : 36W Driver : Standard, 110V-265V Housing : Aluminium Injection Body IP : IP66, Colour Temp. =4000 Kelvin Optics -1 : narrow beam lense Optics-2 : Tempered Glass	each	25,950.90
8.10.59	Fountain light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 250 volt grade Fountain light fitting of following manufacturers of cast aluminium robust housing with net type arrangement with polished aluminium reflector of min. dia 125mm at top & height 150mm, heat proof/ toughened glass, silicon rubber gasket, necessary wiring with sub marine cable, lamp holder, etc. complete with prime coating and best quality powder coated paint suitable to use with Par-38 lamp, complete (with lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACS-U WL1188 or Crescent Cat No-CUWL-03 (N) or S hwash cat No -SCEPL-1 Net Brass or equivalent product.	each	8,967.02
8.10.60	Tower/aviation light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 250 volt grade Tower/Aviation light fitting of following manufacturers consisting of cast aluminium robust housing of min. dia 210mm & height 300mm with polished aluminium reflector, heat proof/ toughened glass, silicon rubber gasket, metallic net, necessary wiring with FR cable , lamp holder, etc. complete with prime coating and best quality powder coated paint suitable to use with 400W-1000W lamp, complete (without lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACS-L2006 or Crescent cat No. CML x339 (Expansion Proof) or Gloria cat No. GEPL-742 or Shwash cat No -SCAV-1 Sincnac or equivalent product.	each	9,050.37

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
8.10.61	Lake light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of out door type, recessed wall/step mounted lake light fittings of following manufacturers consisting of cast aluminium robust housing of breadth 300mm & height 110mm (width or depth of housing 100mm) , water proof louver type diffuser, polished aluminium reflector with fixing materials, rubber gasket, lamp cap, earth terminal, necessary wiring & mending the damages good, complete (except Lamp) of following model & as per sample accepted/approved by the Engineer. Asha ACSF-230 casting (lake light) or Crescent cat No. CML-568 or Shwash cat No -SCSL-786X1X30 Watt or equivalent product.	each	6,552.48
8.10.62	Operation Theatre Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Special type OT Light (Operation Theatre Light) with all necessary accessories complete as per following specification & as per sample accepted/approved by the Engineer. Diameter of Light Head: 650mm Illumination at 1m: 80000-160000 Diameter of Light Sport D10: 180mm Diameter of Light Sport D50:110mm Depth of Illumination: 130mm Color rendering index CRI: ≥ 90 Optional color Temperature (K): 3500/4000/4500 Number of LED bulbs: 72 Average bulb life: 50000 hours Heat-to-Light Ratio: ≤ 3.3 Power Supply: 110V/220V Input Power: 240V Ceiling Height for installation: 270-320 cm Country of Origin : USA/EU countries or Equivalent	each	161,048.67
8.10.63	Foot Light: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Stair light fitting of following manufacturers consisting of pre-treated powder coated steel sheet body of min. breadth 300mm & height 180mm, earth terminal, necessary wiring with 2 x 0.4 sq.mm stranded PVC insulated flexible FR cable etc. complete (except lamp) of following model & as per sample accepted/approved by the Engineer. Asha cat No. ACSF- 216 or Crescent cat No. CML- 568 (I) or Gloria cat No. GFL-02 or Shwash Foot light Dhali+B705 or equivalent product.	each	1,228.43
8.10.64	LED panel light: Supply & Installation of 40 watt LED panel light size :(600x600mm) including all accessories to complete and direction of the Engineer-in-charge(Brand: Energy+ or equivalent).	each	3,731.45
8.10.65	Supply, fitting & fixing of non- maintained Emergency Light of 2x3W LED light, Backup time 2 hours, main supply 110v-220ACV, 50/60Hz ,battery sealed acid (4V, 4.0 AH), charge monitor red LED 5mm dia., Injected moulded thermoplastic ABS housing, 14mm dia. k/o hole, 320x148x110mm dimension and weight 1.2kg at different places as per design drawing & approved by the Engineer in Charge. Country of Origin: China/EU/Korea or other licensed manufacturing units located globally.	each	4,997.71
8.10.66	Slim Panel Light-4ft (36 Watt-LED): Supplying , delivering , fitting, fixing, installation (with effective connection) testing & Commissioning of 36W LED Slim Panel Light- 4ft(feet) of following Manufacturers of having length 1200mm & width 75mm, consisting of Diffuser-Poly Carbonate & Heat Sink Aluminum housing, input Voltage 220V to 240V(AC), Operating Voltage 150V to 265V(AC), Power Rating of 36W, Operating Frequency-50/60 HZ, CCT-6500K, Efficacy-75 LM/W, necessary wiring with stranded PVC cable insulated flexible cable with all other accessories as per sample approved by the E-I-C. Brand: Energypac /Saif Powertec or equivalent approved by Engineer-in-charge.	each	1,160.47
8.10.67	LED panel light: Supplying, delivering, assembling, fitting, fixing, installation (with effective connection) testing & commissioning of Square/round LED panel light of following Watt & Manufacturers of having operating voltage 120V to 260V, Efficacy(Lumen/Watt) 90, necessary wiring with stranded PVC cable insulated flexible cable including all accessories to complete and direction of the Engineer-in-charge. Brand: Energypac /Saif Powertec or equivalent.		
8.10.67.1	LED panel light 12W	each	1,141.23

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8.10.67.2	LED panel light 18W	each	1,243.82

8.10.67.3	LED panel light 24W	each	1,756.73

Section-11: Electric Bulb/Lamp

8.11 Supplying, fitting and fixing the following electric lamp for garden/gate/room light and different places as per directions of the E-I-C.

8.11.1 Balandered bulb

8.11.1.1	160 watt	each	592.51

8.11.1.2	200 watt	each	663.74

8.11.2 Normal bulb

8.11.2.1	500 watt	each	236.36

8.11.2.2	200 watt	each	100.37

8.11.2.3	100 watt	each	59.70

8.11.2.4	60 watt	each	53.23

8.11.2.5	40 watt	each	53.23

8.11.2.6	1.20m 40 wall flurorecent lamp	each	164.48

8.11.3 Energy Savings Lamp (CLF)

8.11.3.01	5/6/7 watt Pin Type B-22 CDL (Cool Day Light)	each	313.01

8.11.3.02	11/13/14/15 watt B-22 CDL	each	357.58

8.11.3.03	8 watt screw Type lamps E-27 CDL/11 watt E22	each	316.14

8.11.3.04	15 watt Spiral Type lamps B22 CD	each	316.14

8.11.3.05	20 watt Spiral Type lamps B22 CD	each	406.79

8.11.3.06	23 watt Spiral Type lamps B22	each	393.84

8.11.3.07	15 watt Spiral Screw Type lamps E-27	each	367.94

8.11.3.08	20 watt Spiral Screw Type lamps E-27	each	393.84

8.11.3.09	23 watt Spiral Screw Type lamps E-27	each	380.89

8.11.3.10	9 watt lamps B-22/E-27 CDL	each	342.04

8.11.3.11	14 watt Mini Spiral Type lamps B-22/E-27 Warm White	each	354.99

8.11.3.12	25/26 watt Spiral Type lamps E-27 CDL	each	380.89

8.11.3.13	8 watt lamps E-14 DL/ W W	each	329.09

8.11.3.14	11 watt lamps E-14 DL	each	353.69

8.11.3.15	15 watt lamps B-22 DL	each	369.24

8.11.3.16	20 watt lamps B-22 DL/E-27 DL	each	393.84

8.11.3.17	65 watt lamps E-27 DL/B-27	each	1,674.70

8.11.4 Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of the following electric lamp/bulb for room light/gate light/garden light etc. complete as per requirement. Origin :EU/USA or equivalent.

8.11.4.01	28W, T5 Tube	each	211.58

8.11.4.02	3W LED Bulb (White)	each	371.86

8.11.4.03	5W LED Bulb (White)	each	532.15

8.11.4.04	7W LED Bulb (White)	each	641.14

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1	2	3	4
8.11.4.05	9W LED Bulb	each	897.60
8.11.4.06	12W LED Bulb	each	2,564.57
8.11.4.07	65W LED Street Bulb	each	30,774.86
8.11.4.08	150W High Pressure Sodium Vapor lamp	each	1,538.74

Section-12: Electric Motor/Pump

8.12	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of single stage 2800-2900 RPM Centrifugal water Pump Motor Set monobloc type manufactured according to DIN/NEMA/IEC/BS/VDE/JIS & ISO 9001 standard of following capacity suitable for operation at single phase, 230V/400V $\pm$ 5% 50Hz A.C having insulation: Class F & Protection: IP44 (Minimum) manufactured by CE certified/UL listed countries as per sample accepted/approved by the Engineer.		
8.12.1	440 volts 3-phase		
8.12.1.1	3.00 HP	each	43,303.25
8.12.1.2	5.5 HP	each	78,271.18
8.12.1.3	7.5 HP	each	83,451.62
8.12.1.4	10.00 HP	each	108,706.23
8.12.1.5	15.00 HP	each	175,922.37
8.12.1.6	20.00 HP	each	210,162.78
8.12.1.7	30.00 HP	each	249,822.56
8.12.1.8	40 H.P Pump Motor Set, Discharge: 4650- 833 liter/min , Head: 28-51 metre, Suction & delivery: 100 mm x 80 mm (4"x3")	each	585,696.82
8.12.1.9	4 HP, Suction& Delivery (2" X 2") and Head =37.5 - 25 Meter	each	64,114.29
8.12.2	220 volts single phase		
8.12.2.1	.5 H.P Pump Motor Set. Discharge: 10-80 liter/min, Head: 22-14 metre Suction & delivery : 25 mm x 25 mm (1" x 1")	each	12,611.77
8.12.2.2	1.00 H.P Centrifugal Pump Motor Set Discharge: 10-90 liter/min, Head: 34-25 meter. Suction & delivery : 25 mm x 25 mm (1" x 1")	each	14,942.96
8.12.2.3	1.5 H.P Centrifugal Pump Motor Set. Discharge: 30- 120 liter/min Head: 38-22 meter. Suction & delivery: 32 mm x 25 mm (1.25" x 1")	each	26,592.04
8.12.2.4	2.00 H.P Centrifugal Pump Motor Set Discharge: 50 - 220 liter/ min Head: 37-20 meter Suction & Delivery: 40 mm x 25 mm (1.50" x 1")	each	34,285.76
8.12.3	Motor starter Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of metal clad surface mounting type three phase 400 $\pm$ 5% Volt 50 Hz. automatic direct-on -line (DOL) motor starter complete with contractor, overload relay coil, etc. (Foreign made) of the following range of rated current including supply of required fixing materials assembled by ADEX/SIEMENS/SIGMA PUMP LTD. or equivalent as per direction of the Engineers.		
8.12.3.1	4 Amps to 12Amps (up to 3 H.P.)	each	13,128.04
8.12.3.2	12 Amps to 17Amps (up to 5 H.P.)	each	15,692.61
8.12.3.3	17 Amps to 32Amps (up to 7.5 H.P.)	each	19,539.47

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8.12.3.4	More than 32 Amps to 50Amps (up to 15 H.P.)	each	22,745.18
8.12.4	Submersible pump: Supplying, assembling, fitting, fixing, installation (with effective connection), testing & Commissioning of following capacity multistage sub-mersible water pump motor set manufactured according to DIN/NEMA/IEC/BS/VDE/JIS & ISO 9001 standard comprising of single stage 2900 RPM sub-mersible motor having Insulation: Class F & protection : IP68 (minimum) suitable for operation at three/ single phase 400/230V, 50Hz AC Supply with 18.29 meter (60') column pipe (API-5L, grade B) with flange gasket, non-return valve, pressure gauge, 40meter (131'-0") long required marine cable in a single length etc. complete in all respect manufactured by CE certified/ UL listed countries as per sample approved by Engineer in charge.		
8.12.4.1	Motor set. 1.0 H.P, Discharge: 10-60 liter/min Head: 88-26 meter. Suction & delivery : 100mmx31.25mm Column Pipe: 32.25 mm, Brand : Pedrollow/Saer, Italy	each	61,986.94
8.12.4.2	Motor set. 2.0 H.P, Discharge: 40-200 liter/min Head: 58-21 meter. Suction & delivery : 50mmx50mm Column Pipe: 50 mm, Brand : Pedrollow/Saer, Italy	each	110,072.66
8.12.4.3	Motor set. 3.0 H.P, Discharge: 40-200 liter/min Head: 85-30 meter. Suction & delivery : 50mmx50mm Column Pipe:50 mm, Brand : Pedrollow/Saer, Italy	each	122,895.51
8.12.4.4	Motor: 4 H.P. Discharge: 2200 – 4000 IGPH Head: 40 - 18 meter Column pipe: 50.00 mm dia	each	134,945.18
8.12.4.5	Motor : 5.5 H.P Suction X Delivery: 50mm X50mm Discharge : 50-375 liter/min. Head : 77-19 meter Column pipe : 50 mm	each	155,461.76
8.12.4.6	Motor : 6 H.P. Suction X Delivery: 50mm X50mm Discharge : 2200-4500 IGPH Head: 60 - 30 meter Column pipe: 50.00 mm dia	each	169,566.90
8.12.4.7	Motor : 7.5 H.P Suction X Delivery: 50mm X50mm Discharge : 40-200 liter/min. Head : 200-72 meter Column pipe: 50 mm	each	187,518.90
8.12.4.8	Motor:7.5 H.P Suction X Delivery: 80mm X80mm Discharge: 2500 - 10000 IGPH Head: 44 - 26 meter column pipe: 80 mm dia	each	240,092.61
8.12.4.9	Motor : 10 H.P Suction X Delivery: 80mm X80mm Discharge : 100-600 liter/min. Head : 92-31 meter Column pipe: 80 mm	each	269,585.18
8.12.5	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of metal clad surface mounting type single phase 220± 5%/400v Volt 50 Hz. (DOL) motor (Push switch ON-OFF type) of the following range of rated current including supply of required fixing materials(Foreign made) as per direction of the Engineers		

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1	2	3	4
8.12.5.1	4 Amps to 17Amps (up to 5 H.P.)	each	2,382.49
8.12.6	Supplying fitting and fixing 3 phase starter for Electric motor etc. all complete as per direction, (MEM of England or any equivalent prior approved quality) of the E-I-C.		
8.12.6.1	7 amps	each	1,824.81
8.12.6.2	15 amps	each	1,980.22
8.12.6.3	30 amps	each	2,096.78
8.12.6.4	50 amps	each	18,745.73
8.12.7	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Surge Protection Device/Surge Arrestor (SPD) for Low voltage distribution system against transient over voltage as per following specification- Responding time (rate of voltage rise 5 kv/ μ s) <25 ns Voltage protection level at 5 kA :1000V Maximum continuous operating voltage :280V AC Open Circuit Voltage : 10 kV Nominal discharge current : 20 kA Maximum discharge current : 40 kA Brand : ABB/Eaton/Hager/Legrand or equivalent. Origin : EU/USA	each	58,008.04

Chapter 9

Termite Treatment Works

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1	2	3	4

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	22.23
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	229.91
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	44.81
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.	per hole	69.58
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	162.96
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	11.35
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	107.25
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.	per hole	233.04
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..	per swch board	566.90
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	1,048.42

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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.	per nest	1,224.84
9.11	Chemical for Anti-termite treatment : Supplying and applying specified type of chemicals such as Pestearthly 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 Pestearthly equally on the surface of the floor. 1 kg Pestearthly 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 Pestearthly equally on the bottom layer of the canal. Fill up half of the canal with soil or sand. Then spread Pestearthly 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 Pestearthly as 3rd or final layer on the surface and fill the rest part of the canal with sand, soil, cement concrete etc. Pestearthly 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	2,148.47

Chapter 10

Tube Well Works

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

Chapter - 10 : Tube Well Works

10.01	Mobilization of materials, equipment, tools and plants, boring rig at the work site, assembling of derrick and dismantling the same, cleaning the site on completion of work, etc. all complete as per direction of the E-I-C	LS	
10.02	Boring by using 100mm dia cutter and 38mm dia GI Pipe and other equipment capable of drilling up to a depth of 500m by water jet system through all sorts of strata, protection of caving by supplying necessary casing pipe, collection of soil samples at every 3m interval and at every change of strata and preserve them for analysis, withdrawal of boring pipes & casing pipes etc. all complete as per specification and direction of the E-I-C.		
10.02.01	From 0.0m to 50m = 50m	m	128.23
10.02.02	From 50m to 100m = 50m	m	Add +10.00% with Item No 10.02.01
10.02.03	From 100m to 152m = 52m	m	Add +21.00% with Item No 10.02.01
10.02.04	From 152m to 200m = 48m	m	Add +33.00% with Item No 10.02.01
10.02.05	From 200m to 250m = 50m	m	Add +46.00% with Item No 10.02.01
10.02.06	Beyond 250m	m	Add +60.00% with Item No 10.02.01
10.03	Supplying and lowering 38mm dia water grade PVC pipe having wall thickness 2.5mm to 3.0mm ('D' Class Aziz pipe/equivalent), PVC sand trap of length 3.0m with cap, PVC strainer of desired slot installing at the middle of the most suitable water bearing strata. 38mm dia GI pipe of best quality of length 1.52m with MS welded flat bar on each side to prevent from rotation up to the desired depth, fitting fixing the hand pump No. 6 etc. including the cost of solvent cement, socket adapter, filling medium sand up to 18.0m above strainer and the remaining portion with available soil from boring etc. all complete as per standard specification and direction of the E-I-C		
10.03.01	Hand pump No. 6 complete set (EPL/RFL) (Medium)/equivalent brand)	each	3,332.02
10.03.02	38mm dia GI pipe 2.9mm thick (National Tubes/equivalent)	m	671.26
10.03.03	38mm dia water graded PVC pipe having thickness 2.5-3.00mm ('D' class Aziz brand/equivalent) pipe sand trap	m	121.13
10.03.04	38mm dia water graded PVC strainer having thickness 2.5 – 3.0mm ('D' class Aziz brand/equivalent) of recommended slot size	m	120.12
10.03.05	38mm dia socket adapter	each	17.07
10.03.06	Best quality 38mm dia PVC cap	each	62.06
10.04	Filling the top 0.6metre of the bore hole around the top pipe with sanitary seal of concrete (1:2:4), etc. all complete as per specifications and direction of the E-I-C.	LS	
10.05	Complete development of the tube well to obtain sand & turbidity free water at a satisfactory yield, etc. all complete as per specifications and direction of the E-I-C.		
10.05.01	For wells up to 200m depth	LS	
10.05.02	For wells beyond 200m depth	LS	
10.06	Furnishing design of the production well by testing of water and soil samples collected from the observation well in/c. test for 'Arsenic' etc. all complete as per direction of the E-I-C. (excluding the cost of actual fees for testing which will be paid to the contractor separately by the department).	LS	
10.07	Disinfecting the well by using minimum 1kg of bleaching powder or any other disinfectant etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.09	Preparation for installation of tube well and transportation of complete boring equipment, labours, materials to the work site and returned the materials on completion of 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 etc. all complete as per specifications and directions of the E-I-C.		
10.09.01	For Tube wells up to 100 m depth	LS	
10.09.02	For Tube wells up to 200 m depth	LS	

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.09.03	For Tube wells beyond 200 m depth	LS	
10.10	Execution of boring through all sorts of strata reserve circulation or any other approved method (Method other than reserve circulation is to be applied only for wells deeper than 152 m) for boring 325mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation).		
10.10.01	From 0.0m to 50m = 50m	m	577.03
10.10.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.10.01
10.10.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.10.01
10.10.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.10.01
10.10.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.10.01
10.10.06	Beyond 250m	m	Add +101.00% with Item No 10.10.01
10.11	Supplying tube well fixtures at working site as per standard practice etc. all complete as per specifications and direction of the E-I-C.		
10.11.01	Best quality 50mm dia PVC cap	each	148.94
10.11.02	50mm dia water grade PVC blank pipe/ sand trap having wall thickness 2.5mm to 3.0mm ('C' class Aziz/ equivalent Brand)	m	225.06
10.11.03	50mm dia strainer of any slot as per design made with grade PVC pipe having wall thickness 2.5mm to 3mm ('C' class Aziz/equivalent brand).	m	238.91
10.11.04	50mm dia water grade PVC Blind pipe/ well pipe having wall thickness 2.5mm to 3mm ('C' class Aziz/ equivalent brand).	m	225.06
10.11.05	Best quality 50mmx125mm PVC Reducer	each	170.86
10.11.06	125mm dia water grade PVC Housing pipe having wall thickness of 5.5mm to 6.4mm ('C' class Aziz/equivalent Brand).	m	845.56
10.12	Complete installation of 50mm dia PVC 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	83.22
10.13	Preparation and making gravel pack around the tube well fixtures with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (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 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.14	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, 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, etc. all complete as per specifications and direction of the E-I-C (Development should be started within 24 hours on completion of shrouding).		
10.14.01	Wells up to 200m depth	LS	
10.14.02	Wells beyond 200m depth	LS	
10.15	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including yield draw down and recovery test etc. all complete as per specifications and direction of the E-I-C.	hour	373.91
10.16	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength), chlorinated water having 150ppm available free chlorine complete as per standard specification, etc. all complete as per specifications and direction of the E-I-C.	LS	

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.17	Filling the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	38.85
10.18	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand, brick aggregate (10mm down graded) in proportion 1:1.5:3 etc. all complete as per standard specifications and direction of the E-I-C	cum	13,206.52
10.19	Supplying, fitting and fixing best quality 150mm dia 4mm thick MS pipe 1.0m long one end blocked with 200mm dia 4mm thick MS plate and other end minimum 300mm embedded in sanitary seal for protection of PVC Housing Pipe, etc. all complete as per standard specification and direction of the E-I-C.	each	4,083.98
10.20	Preparation for installation of tube well and transportation of complete boring equipment, labours and materials to the work site and returned the materials on completion of 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 the site as to the original condition etc. all complete as per specifications and direction of the E-I-C.		
10.20.01	For Tube wells up to 100 m depth	LS	
10.20.02	For Tube wells up to 200 m depth	LS	
10.20.03	For Tube wells beyond 200 m depth	LS	
10.21	Execution of boring through all sorts of strata reserve circulation or any other approved method (Method other than reserve circulation is to be applied only for wells deeper than 152m) for boring 350mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation.)		
10.21.01	From 0.0m to 50m = 50m	m	641.14
10.21.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.21.01
10.21.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.21.01
10.21.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.21.01
10.21.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.21.01
10.21.06	Beyond 250m	m	Add +101.00% with Item No 10.21.01
10.22	Supplying tube well fixtures at working site, etc. all complete as per standard practice, specifications and direction of the E-I-C.		
10.22.01	Best quality 75mm dia PVC cap	each	207.22
10.22.02	75mm dia water grade PVC blank pipe/sand trap having wall thickness 3.5mm to 4.1mm ('C' class Aziz/ equivalent Brand)	m	327.01
10.22.03	75mm dia strainer of any slot as per design made with grade PVC pipe having wall thickness 3.5mm to 4.1mm ('C' class Aziz/equivalent brand).	m	343.20
10.22.04	75mm dia water grade PVC Blind pipe/well pipe having wall thickness 3.5mm to 4.1mm ('C' class Aziz/ equivalent brand).	m	327.01
10.22.05	Best quality 75mmx150mm dia PVC Reducer	each	182.21
10.22.06	150mm dia water grade PVC Housing pipe having wall thickness 6.6mm to 7.6mm ('C' class Aziz/equivalent Brand).	m	1,218.56
10.23	Complete installation of 75mm dia PVC 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	92.02

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.24	Preparation and making gravel pack around the tube well fixtures and bore hole with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (The rate is inclusive of the cost of extra amount required for caving and extra depth below the well fixtures. Shrouding should not be more than 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.25	Complete development of the 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, etc. all complete as per specifications and direction of the Engineer-in-charge. (Development should be started within 24 hours of completion of shrouding).		
10.25.01	Wells up to 200m depth	LS	
10.25.02	Wells beyond 200m depth	LS	
10.26	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including yield draw down and recovery test etc. all complete as per specifications and direction of the E-I-C.	hour	373.91
10.27	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150 ppm available free chlorine, etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.28	Filling of the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	45.98
10.29	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand, khoa, (10mm down graded) in proportion 1:1.5:3 as per standard specification, etc. all complete as per direction of E-I-C.	cum	13,206.52
10.30	Supplying, fitting and fixing best quality 200mm dia 4mm thick MS pipe 1.0m long one end blocked with 250mm dia 4mm thick MS plate and other end minimum 300mm embedded in sanitary seal for protection of PVC Housing Pipe, etc. all complete as per standard specifications and direction of the E-I-C.	each	5,532.06
10.31	Preparation for installation of tube well and transportation of complete boring equipment, labours and materials to the work site and returned the materials on completion of 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 the site to original condition etc. all complete as per specifications and directions of the E-I-C.		
10.31.01	For Tube wells up to 100 m depth	LS	
10.31.02	For Tube wells up to 200 m depth	LS	
10.31.03	For Tube wells beyond 200 m depth	LS	
10.32	Execution of boring through all sorts of strata reserve circulation or any other approved method (method other than reserve circulation is to be applied only for wells deeper than 152 m) for boring 400mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation).		
10.32.01	From 0.0m to 50m = 50m	m	769.37
10.32.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.32.01
10.32.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.32.01
10.32.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.32.01
10.32.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.32.01
10.32.06	Beyond 250m	m	Add +101.00% with Item No 10.32.01
10.33	Supplying tube well fixtures at working site, etc. all complete as per standard practice and direction of the E-I-C.		

District : CUMILLA, B.BARIA, CHANDPUR
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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.33.01	Best quality 100mm dia PVC cap	each	259.02
10.33.02	100mm dia water grade PVC blank pipe/sand trap having wall thickness 4.5mm to 5.2mm ('C' class Aziz/Equivalent Brand)	m	522.36
10.33.03	100mm dia strainer of any slot as per design made with grade PVC pipe having wall thickness 4.5mm to 5.2mm ('C' class Aziz/Equivalent brand).	m	639.09
10.33.04	100mm dia water grade PVC Blind pipe/well pipe having wall thickness 4.5mm to 5.2mm ('C' class Aziz/Equivalent brand).	m	522.36
10.33.05	Best quality 100mmx200mm dia PVC Reducer	each	1,010.18
10.33.06	200mm dia water grade PVC Housing pipe having wall thickness 7.8mm to 9.0mm ('C' class Aziz/Equivalent Brand).	m	1,855.24
10.34	Complete installation of 100mm dia PVC 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	103.85
10.35	Preparation and making gravel pack around the tube well fixtures and bore hole with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (The rate is inclusive of the cost of extra amount required the caving and extra depth below the tube well fixtures. Shrouding should not be more than 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.36	Complete development of the tube well by 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, etc. all complete as per specifications and direction of the E-I-C. (Development should be started within 24 hours of completion of shrouding)		
10.36.01	Wells up to 200m depth	LS	
10.36.02	Wells beyond 200m depth	LS	
10.37	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including draw down and recovery test etc. all complete as per specifications and direction of the E-I-C	hour	396.07
10.38	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150ppm available free chlorine etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.39	Filling the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	53.10
10.40	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand and brick aggregate, (10mm down graded) in proportion 1:1.5:3 as per standard specification, etc. all complete as per direction of the E-I-C.	cum	13,206.52
10.41	Supplying and fitting fixing best quality 250mm dia 4mm thick MS pipe 1.0m long one end blocked with 300mm dia 4mm thick MS plate and other end minimum 300mm embedded in sanitary seal for protection of PVC Housing Pipe, etc. all complete as per standard specifications and direction of the E-I-C.	each	7,586.39
10.42	Preparation for installation of tube well and transportation of complete boring equipment, labours and materials to the work site and returned the materials on completion of 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 the site to original condition etc. all complete as per specifications and directions of the E-I-C.		
10.42.01	For Tube wells up to 100 m depth	LS	
10.42.02	For Tube wells up to 200 m depth	LS	
10.42.03	For Tube wells beyond 200 m depth	LS	

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.43	Execution of boring through all sorts of strata reserve circulation or any other approved method (method other than reserve circulation is to be applied only for wells deeper than 152 m) for boring 600mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation.		
10.43.01	From 0.0m to 50m = 50m	m	1,025.83
10.43.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.43.01
10.43.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.43.01
10.43.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.43.01
10.43.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.43.01
10.43.06	Beyond 250m	m	Add +101.00% with Item No 10.43.01
10.44	Supplying tube well fixtures at working site, etc. all complete as per standard practice and direction of the E-I-C.		
10.44.01	Best quality 150mm dia PVC cap	each	330.19
10.44.02	150mm dia water grade PVC blank pipe/sand trap having wall thickness 6.6mm to 7.6mm ('C' class Aziz/ equivalent Brand)	m	1,218.55
10.44.03	150mm dia strainer of any slot as per design made with grade PVC pipe having wall thickness 6.6mm to 7.6mm ('C' class Aziz/equivalent brand).	m	1,266.33
10.44.04	150mm dia water grade PVC Blind pipe/well pipe having wall thickness 6.6mm to 7.6mm ('C' class Aziz/ equivalent brand).	m	1,218.55
10.44.05	Best quality 150mmx200mm dia PVC Reducer	each	1,015.19
10.44.06	200mm dia water grade PVC Housing pipe having wall thickness 7.8mm to 9.0mm ('C' class Aziz/equivalent Brand).	m	1,864.43
10.45	Complete installation of 100mm dia PVC 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	100.07
10.46	Preparation and making gravel pack around the tube well fixtures and bore hole with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (The rate is inclusive of the cost of extra amount required the caving and extra depth below the tube well fixtures. Shrouding should not be more than 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.47	Complete development of the tube well by 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, etc. all complete as per specifications and direction of the E-I-C. (Development should be started within 24 hours of completion of shrouding)		
10.47.01	Wells up to 200m depth	LS	
10.47.02	Wells beyond 200m depth	LS	
10.48	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including draw down and recovery test etc. all complete as per specifications and direction of the E-I-C	hour	398.84
10.49	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150ppm available free chlorine etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.50	Filling the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	74.47

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.51	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand and brick aggregate, (10mm down graded) in proportion 1:1.5:3 as per standard specification, etc. all complete as per direction of the E-I-C.	cum	13,206.52
10.52	Supplying and fitting fixing best quality 250mm dia 4mm thick MS pipe 1.0m long one end blocked with 300mm dia 4mm thick MS plate and other end minimum 300mm embedded in sanitary seal for protection of PVC Housing Pipe, etc. all complete as per standard specifications and direction of the E-I-C.	each	8,753.52
10.53	Preparation for installation of tube well and transportation of complete boring equipment, labours and materials to the work site and returned the materials on completion of 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 the site to original condition etc. all complete as per specifications and directions of the E-I-C.		
10.53.01	For Tube wells up to 100 m depth	LS	
10.53.02	For Tube wells up to 200 m depth	LS	
10.53.03	For Tube wells beyond 200 m depth	LS	
10.54	Execution of boring through all sorts of strata reserve circulation or any other approved method (method other than reserve circulation is to be applied only for wells deeper than 152 m) for boring 600mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation.		
10.54.01	From 0.0m to 50m = 50m	m	1,025.83
10.54.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.54.01
10.54.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.54.01
10.54.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.54.01
10.54.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.54.01
10.54.06	Beyond 250m	m	Add +101.00% with Item No 10.54.01
10.55	Supplying tube well fixtures at working site, etc. all complete as per standard practice and direction of the E-I-C.		
10.55.01	150mm dia M.S. cap 6mm thick for blank pipe/sand trap	each	1,353.77
10.55.02	150mm dia GI pipe (national Tube or equivalent Brand) having minimum thickness 4.85 for Blank pipe/sand trap.	m	3,425.86
10.55.03	150mm dia strainer of slot opening as per design including tagging 4 Nos. 12mm dia M.S. rod continuously.		
10.55.03.01	Stainless steel strainer of continuous slot (Johnson or equivalent) having weight 28.84kg per m	m	8,552.00
10.55.03.02	2.50mm thick stainless steel Bridge type strainer	m	7,579.20
10.55.04	150mm dia GI blind pipe (National Tube or equivalent) having minimum thickness 4.85mm.	m	3,425.86
10.55.05	150mmx300mm dia M.S. reducer having minimum thickness of 6mm.	each	3,774.41
10.55.06	300mm dia M.S. Housing pipe having minimum thickness 6mm.	m	7,522.25
10.55.07	Centralizer made with 10mm dia M.S. rod of approved design.	each	650.64
10.55.08	350mm dia M.S. cap having 6mm thick for housing pipe covering.	each	688.72
10.56	Complete installation of 150mm dia deep 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	5,680.25

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.57	Preparation and making gravel pack around the tube well fixtures and bore hole with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (The rate is inclusive of the cost of extra amount required the caving and extra depth below the tube well fixtures. Shrouding should not be more than 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.58	Complete development of the tube well by 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, etc. all complete as per specifications and direction of the E-I-C. (Development should be started within 24 hours of completion of shrouding)		
10.58.01	Walls upto 200m depth	LS	
10.58.02	Walls beyond 200m depth	LS	
10.59	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including draw down and recovery test etc. all complete as per specifications and direction of the E-I-C	hour	398.84
10.60	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150ppm available free chlorine etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.61	Filling the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	74.47
10.62	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand and brick aggregate, (10mm down graded) in proportion 1:1.5:3 as per standard specification, etc. all complete as per direction of the E-I-C.	cum	13,206.52
10.63	Preparation for installation of tube well and transportation of complete boring equipment, labours and materials to the work site and returned the materials on completion of 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 the site to original condition etc. all complete as per specifications and directions of the E-I-C.		
10.63.01	For Tube wells up to 100 m depth	LS	
10.63.02	For Tube wells up to 200 m depth	LS	
10.63.03	For Tube wells beyond 200 m depth	LS	
10.64	Execution of boring through all sorts of strata reserve circulation or any other approved method (method other than reserve circulation is to be applied only for wells deeper than 152 m) for boring 600mm dia vertical hole up to designed depth and collection of soil samples at every 3m interval and at every change of formation including sinking and withdrawing necessary casing pipe and all necessary arrangements, etc. all complete as per specifications and direction of the E-I-C. (Measurement will be allowed from G.L. to bottom of the blank pipe and the rate is inclusive of the cost of extra depth of boring required for caving and siltation.		
10.64.01	From 0.0m to 50m = 50m	m	1,025.83
10.64.02	From 50m to 100m = 50m	m	Add +15.00% with Item No 10.64.01
10.64.03	From 100m to 152m = 52m	m	Add +32.00% with Item No 10.64.01
10.64.04	From 152m to 200m = 48m	m	Add +52.00% with Item No 10.64.01
10.64.05	From 200m to 250m = 50m	m	Add +75.00% with Item No 10.64.01
10.64.06	Beyond 250m = 50m	m	Add +101.00% with Item No 10.64.01
10.65	Supplying tube well fixtures at working site, etc. all complete as per standard practice and direction of the E-I-C.		
10.65.01	200mm dia M.S. cap 6mm thick for blank pipe/sand trap	each	2,210.72
10.65.02	200mm dia GI pipe (national Tube or equivalent Brand) having minimum thickness 6mm for Blank pipe/sand trap	m	5,087.45
10.65.03	200mm dia strainer of slot opening as per design including tagging 4 Nos. 12mm dia M.S. rod continuously.		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.65.03.01	Stainless steel strainer of continuous slot (Johnson brand or equivalent) having weight 38.36kg per m	m	12,854.55
10.65.03.02	2.50mm thick stainless steel Bridge type strainer	m	9,663.77
10.65.04	200mm dia GI blind pipe (National Tube or equivalent brand) having minimum thickness 4.85mm.	m	5,087.45
10.65.05	200mmx300mm dia M.S. reducer having minimum thickness of 6mm.	each	3,904.56
10.65.06	300mm dia M.S. Housing pipe having minimum thickness 6mm.	m	7,522.25
10.65.07	Centralizer made with 10mm dia M.S. rod of approved design.	each	650.64
10.65.08	350mm dia M.S. cap having 6mm thick for housing pipe covering.	each	7,256.71
10.66	Complete installation of 200mm dia deep 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 PVC tape and placing in position with proper size bamboo split centralizer @3m c/c in strainer portion in/c. blank pipe etc. all complete as per standard practice, specifications and direction of the E-I-C.	m	5,443.02
10.67	Preparation and making gravel pack around the tube well fixtures and bore hole with supply of designed graded pea gravel (passing through 10 mesh and retained on 40 mesh) including screening, washing etc. all complete as per standard specifications and direction of the E-I-C. (The rate is inclusive of the cost of extra amount required the caving and extra depth below the tube well fixtures. Shrouding should not be more than 15m above the strainer and measurement should be allowed from bottom of the tube well fixture to top of the gravel pack).	cum	8,332.57
10.68	Complete development of the tube well by 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, etc. all complete as per specifications and direction of the E-I-C. (Development should be started within 24 hours of completion of shrouding)		
10.68.01	Wells upto 200 m depth	LS	
10.68.02	Wells beyond 200 m depth	LS	
10.69	Long term pumping test of the well by required capacity of turbine/submersible pump with supply of testing equipment and all materials for 72 hours including draw down and recovery test etc. all complete as per specifications and direction of the E-I-C	hour	393.30
10.70	Disinfecting the well including supply of sufficient quantity of bleaching powder (33% strength) chlorinated water having 150ppm available free chlorine etc. all complete as per standard specifications and direction of the E-I-C.	LS	
10.71	Filling the bore hole around the tube well from top of the shrouding up to the bottom of sanitary seal by withdrawal of selected soil or local clay, etc. all complete as per standard specifications and direction of the E-I-C.	m	74.47
10.72	Making a sanitary seal up to a minimum depth of 6m from G.L. or as specified including the supply of approved quality of cement, sand and brick aggregate, (10mm down graded) in proportion 1:1.5:3 as per standard specification, etc. all complete as per direction of the E-I-C.	cum	13,206.52
10.73	Supplying and sinking 40mm dia Water grade ('D' Class Aziz Brand/equivalent) PVC tube well pipe having wall thickness 2.5mm to 3.0mm in/c trial boring and with all necessary fittings as required etc. all complete as per direction of the E-I-C.		
10.73.01	40mm dia pipe up to 60m depth	m	158.48
10.73.02	40mm dia pipe beyond 60m depth	m	Add +19.00% with Item No 10.73.01
10.74	Supplying and sinking Five Star/equivalent brand 40mm dia PVC strainer 3m long including trial boring and with all necessary fittings as required etc. all complete as per direction of the E-I-C.	each	530.10
10.75	Supplying, fitting and fixing EPI/RFL (Medium) Brand No. 6 pump for 40mm dia tube well with all necessary fittings including 0.61m long 40mm dia GI pipe etc. all complete as per direction of the E-I-C.	each	3,260.70
10.76	Construction of platform of size 1.4mx1.0m as per drawing with 75mm thick Cement Concrete (1:2:4) over a layer of brick flat soling and providing 125mmx75mm brick band all around in/c finished with 12mm thick cement plaster (1:4) with neat cement finishing, providing outlet drain up to 1m long, etc. all complete as per direction of the E-I-C.	each	6,223.00

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
10.77	Supplying and sinking PVC tube well pipe, PVC strainer including trial boring with all necessary fittings as required etc. all complete as per direction of the E-I-C.		
10.77.01	50mm dia water grade ('C' Class Aziz brand/equivalent) PVC pipe having wall thickness 2.5mm to 3.0mm	m	273.29
10.77.02	40mm dia water grade ('D' Class Aziz brand/equivalent) PVC pipe having wall thickness 2.5mm to 3mm	m	158.48
10.77.03	40mm dia Five Star/equivalent brand PVC strainer 3.0m long	each	530.10

Chapter 11

Furniture and Fixtures

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

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 BERGER/equivalent 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	3,846.86
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 BERGER/equivalent 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	3,462.17
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 BERGER/equivalent 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	4,744.46
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 BERGER/equivalent 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	4,744.46
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 (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	24,735.29

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	10,709.65
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 230°C 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	7,373.14

District : CUMILLA, B.BARIA, CHANDPUR
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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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 230°C 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	1,983.70
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	379.56
11.02.02	Armless chair	each	309.03
11.02.03	Easy chair (caned)	each	318.01
11.02.04	Easy chair (canvassed)	each	318.01
11.02.05	Table (big)	each	468.03
11.02.06	Table (small)	each	388.53
11.02.07	Dressing Table	each	795.02
11.02.08	Sofa Set	each	1,327.17
11.02.09	Cot	each	1,150.85
11.02.10	Almirah	each	1,327.17
11.02.11	Meat Safe	each	795.02
11.02.12	Cupboard	each	795.02
11.02.13	Sideboard, whatnot, rack, cloth stand	each	406.48
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	19,875.43
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	11,540.57
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	3,846.86
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	25,645.71

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.07	Supplying official Table made of best quality imported 18mm thick scratch 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	11,856.01
11.07.02	Official Table LB (Size : 1600LX800WX 750Hmm) (Navana of FTL0562 /Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	11,107.16
11.07.03	Official Table LB (Size : 1600LX800WX 750Hmm) (Navana of FTL0561/ Otobi / Hatil/ Akther/ Brothers or equivalent best quality)	each	10,374.97
11.07.04	Official Table LB (Size : 1600LX800WX 750Hmm) (Navana of FTL0563/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,389.08
11.07.05	Official Table LB (Size : 1400LX800WX 750Hmm) (Navana of FTM0560/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,389.08
11.07.06	Official Table LB (Size : 1400LX750WX 750Hmm) (Navana of FTM0562/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	9,722.29
11.07.07	Official Table LB (Size : 1400LX750W X 750Hmm) (Navana of FTM0561 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,788.79
11.07.08	Official Table LB (Size : 1400LX750WX 750Hmm) (Navana of FTM0563 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,388.71
11.07.09	Official Table LB (Size : 1200LX750WX 750Hmm) (Navana of FTN0560/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	9,455.57
11.07.10	Official Table LB (Size : 1200LX750WX 750Hmm) (Navana of FTN0562/Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	8,388.71
11.07.11	Official Table LB (Size : 1200LX700WX 750Hmm) (Otobi of TPOP001LB/Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	17,798.13
11.07.12	Official Table LB (Size : 1200LX 700WX 750Hmm) (Navana of FTN0561 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,389.08
11.07.13	Official Table LB (Size : 1200LX700WX 750Hmm) (Navana of FTN0563 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,460.34
11.07.14	Official Table LB (Size : 1000LX600WX 750Hmm) (Navana of FTS0563/Otobi/Hatil/ Akther/ Brothers or equivalent best quality)	each	6,388.35
11.08	Supplying Senior officials Table made of best quality imported 18mm thick scratch 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	42,700.11
11.08.02	Senior Official Table LB (Size :1800LX800W X750Hmm) (Otobi of TMOP004LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	39,584.16
11.08.03	Senior Official Table LB (Size :1800LX1800W X750Hmm) (Otobi of TMOP019LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	28,902.72
11.08.04	Senior Official Table LB (Size :1800LX1700W X750Hmm) (Otobi of TMOP006LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	38,430.10
11.08.05	Senior Official Table LB (Size :1800LX1000W X 750Hmm) (Navana of FTM0552 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	24,791.71
11.08.06	Senior Official Table LB (Size :1800LX900WX 750Hmm) (Navana of FTM0550LB /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	12,656.16
11.08.07	Senior Official Table LB (Size : 1650LX800WX 750Hmm) (Navana of FTM6001 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	37,327.34
11.08.08	Senior Official Table LB (Size :1600LX900WX 750Hmm) (Otobi of TEOP005LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	24,914.81

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.08.09	Senior Official Table LB(Size :1600LX850WX 750Hmm) (Navana of FTM0553 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	14,523.17
11.08.10	Senior Official Table LB (Size :1600LX750W X750Hmm) (Navana of FTM6002 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	31,993.03
11.08.11	Senior Official Table LB (Size : 1600LX750W X 750Hmm) (Otobi of TEOP022LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	15,951.63
11.08.12	Senior Official Table LB (Size : 1400LX750W X 750Hmm) (Navana of TEOP012LB /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	23,068.32
11.08.13	Senior Official Table LB (Size :1400LX750W X 750Hmm) (Otobi of TPOP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	17,798.13
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	99,069.39
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	121,688.91
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	71,346.38
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	55,597.34
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	75,416.35
11.09.06	Senior Official Table MDF (Size :1800LX900WX750Hmm) (Navana of FTM1301LB /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	47,862.60
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	67,332.82
11.09.08	Senior Official Table MDF/EW (Size :1800LX1830WX 750Hmm) (Otobi of TMOP022LB/ Navana/Hatil/Akther /Brothers or equivalent best quality)	each	31,928.91
11.09.09	Senior Official Table MDF/EW (Size :1400LX800WX750Hmm) (Navana of FTM1304 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	29,325.87
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	7,321.85
11.10.02	Three Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0611/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	6,844.84
11.10.03	Three Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0620/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	6,655.06
11.10.04	Three Drawer unit with wheel (size : 400Wx470Dx705H) (Navana of FDZ0619/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	6,924.34
11.10.05	Two Drawer unit with wheel (size : 400Wx470Dx705H) (Navana of FDZ0617/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	5,334.31
11.10.06	Two Drawer unit without wheel (size : 400Wx470Dx650H) (Navana of FDZ0618/ Otobi /Hatil/Akther/ Brothers or equivalent best quality)	each	5,067.59

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.11	Supplying Conference Table made of best quality imported 18mm thick scratch proof and termite proof Laminated Melamine Board (LB) frame with standard size leg and 25mm thick scratch 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).		
11.11.01	Conference Table- Corner LB (size: 625Lx625Wx750Hmm) (Navana of FCM 0580 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	5,334.31
11.11.02	Conference Table- Short Middle LB (size: 600Lx600Wx750Hmm) (Navana of FCM 0581/ Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	5,334.31
11.11.03	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) (Navana of FCM 0582 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	7,868.11
11.11.04	Conference Table- Long Middle LB (size: 1400Lx600Wx750Hmm) (Navana of FCM 0583 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	8,401.54
11.11.05	Conference Table- Long Middle LB (size: 1600Lx600Wx750Hmm) (Navana of FCM 0584 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	9,335.04
11.11.06	Conference Table- (size: 3000Lx1200Wx760Hmm) of Otobi Of TCOP022LB (Navana/Hatil/Akther/Brothers or equivalent best quality)	each	38,340.34
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	14,746.29
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	25,645.71
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	7,693.71
11.15	Supplying Swivel Chair of official standard with handle or without handle of special size of zinc phosphate coated oven backed powder paint finish milds steel structure, Chrome plated polymer cast leg with 5 nos castors (wheels). High quality PVC handles. Fully revolving and back tilt facility of high or medium or low back. Hydraulically height adjustable mechanism. 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).		
11.15.01	Swivel Chair without handle (Navana of FCJ 2262 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	6,521.71
11.15.02	Swivel Chair without handle (Otobi of CSEP154 /Navana/i/Hatil/ Akther/Brothers or equivalent best quality)	each	8,334.86
11.15.03	Swivel Chair without handle (Otobi of CSEP009 / Navana/Hatil/Akther/Brothers or equivalent best quality)	each	7,834.77
11.15.04	Swivel Chair normal back with handle (Otobi of CSEP002 /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	9,681.26
11.15.05	Swivel Chair normal back with handle (Navana of FCJ 2261 /Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	7,588.57
11.15.06	Swivel Chair medium back with handle (Otobi of CSSP001/CSEP061 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	12,527.93
11.15.07	Swivel Chair medium back with handle (Navana of FCM 2211 /Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	11,856.01
11.15.08	Swivel Chair medium back with handle (Navana of FCN 2209/2210 /Otobi/Hatil/ Akther/Brothers or equivalent best quality)	each	12,789.52
11.15.09	Swivel Chair medium back with handle (Navana of FCM 2209/2210/Otobi/Hatil/ Akther/Brothers or equivalent best quality)	each	13,322.95

District : CUMILLA, B.BARIA, CHANDPUR**Schedule of Rates, LGED, October 2019**

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.15.10	Swivel Chair high back with handle (Otobi of CSSP002/003 /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	13,322.95
11.15.11	Swivel Chair high back with handle (Navana of FCH 2209/Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	14,910.42
11.15.12	Swivel Chair high back with handle (semi-executive type) (Otobi of CSPP004 / Navana /Hatil/Akther/Brothers or equivalent best quality)	each	18,939.36
11.15.13	Swivel Chair high back with handle (semi-executive type) (Navana of FCM 2215/FCH 2208/FCH 2214 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	15,590.03
11.15.14	Swivel Chair high back with handle (executive type) (Navana of FCH 2200 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	36,660.55
11.15.15	Swivel Chair high back with handle (executive type) (Otobi of CSPP002 /Navana/ Hatil/Akther/ Brothers or equivalent best quality)	each	37,006.77
11.15.16	Swivel Chair high back with handle (executive type) (CSPP005/CSPP006 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	27,761.49
11.15.17	Swivel Chair high back with handle (semi-executive type) (CSEP085 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	20,362.70
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	15,387.43
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	7,052.57
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	4,128.96
11.18.02	Armed chair standard normal (Navana of FCF 2305 /CFVP011 / Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,411.25
11.18.03	Armed chair standard normal (Navana of FCF 2313 / Otobi/ Hatil/ Akther /Brothers or equivalent best quality)	each	5,454.84
11.18.04	Armed chair standard medium (Navana of FCF 2303/2304 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,854.92
11.18.05	Armed chair standard fancy light (Navana of FCF 2301/ Otobi CFVP005/Hatil/ Akther/ Brothers or equivalent best quality)	each	6,154.97
11.18.06	Armed chair standard fancy heavy (Navana of FCF 2302 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,321.85
11.18.07	Armed chair standard fancy heavy (Otobi of CFVP006/007 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,834.77
11.18.08	Armed chair standard fancy heavy (Navana of FCV 2207/CFVP008/ Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,117.23
11.18.09	Armed chair standard fancy heavy (Navana of FCV 2209/2210/ Otobi/Hatil/ Akther/ Brothers or equivalent best quality)	each	10,922.51
11.18.10	Armed chair standard fancy heavy (Otobi of CFVP053 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	10,822.49
11.18.11	Armed chair standard fancy heavy (Navana of FCV 2204 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	11,856.01
11.18.12	Armed chair standard fancy heavy (Otobi of CFVP012 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	12,810.03

District : CUMILLA, B.BARIA, CHANDPUR
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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	641.14
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	2,564.57
11.20.02	Armless chair standard normal (Navana of FCF 2307 LR /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	2,921.05
11.20.03	Armless chair standard normal (Navana of FCF 2307 FF /Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	3,205.71
11.20.04	Armless chair standard normal (Otobi of CFVE005/006 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	3,282.65
11.20.05	Armless chair standard medium (Navana of FCF 2308 LR/ Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	4,521.34
11.20.06	Armless chair standard medium (Navana of FCF 2308 FF /Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	5,054.77
11.20.07	Armless chair standard fancy light (Otobi of CFVP001 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,129.14
11.20.08	Armless chair standard fancy thick Plastic seat and back (Otobi of CFVP057 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	5,770.29
11.20.09	Armless chair standard fancy light (Otobi of CFVP010 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	6,270.38
11.20.10	Armless chair standard fancy light (Otobi of CFVP030 /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	7,244.91
11.20.11	Armless chair standard fancy light (CFDP001 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	4,128.96
11.20.12	Armless chair wooden light (FCF2310MG of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	3,321.12
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	3,846.86
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	3,846.86
11.23	Supplying, fitting and fixing door and window palmate (150mm wide) in/c wooden frog and 25mm dia wooden rod with 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).	m	848.18
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	28,210.29
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	28,210.29

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	24,735.29
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	32,526.46
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	16,913.35
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 drawer of 476Dx620Wx 1390H mm size of Otobi FCOP003MS/ Navana/ Hatil/Akther/Brothers or equivalent best quality)	each	27,043.41
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	19,990.83
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	16,523.53
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	27,812.78
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	7,052.57
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	4,488.00
11.33	Supplying Multipurpose shelf of standard Colour & size of local best quality, 16mm thick scratch 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 shelves, 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	15,990.10

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.33.02	Multipurpose shelf beech colour (size 800Lx 400Dx1800Hmm) (Navana of HSM 0381 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	12,256.09
11.33.03	Multipurpose shelf beech colour (size :600Lx 300Dx1800Hmm) (Navana of HSM 0387 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	9,588.93
11.33.04	Multipurpose shelf beech colour (size :800Lx 350Dx1800Hmm) (Navana of HSM 0386 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	10,922.51
11.33.05	Multipurpose shelf beech colour (size : 600Lx 350Dx1800Hmm) (Navana of HSM 0382 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	10,255.72
11.33.06	Multipurpose shelf beech colour (size : 1200Lx 400Wx1800Hmm) (MSCP005LB WDDP005LB of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	19,926.72
11.33.07	Multipurpose shelf beech colour (size : 800Lx 400Wx1800Hmm) (MSCP004LB of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	15,951.63
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	11,861.14
11.34.02	Computer Table (size :1100Lx600Dx 750Hmm) (Otobi of TCCP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	12,527.93
11.34.03	Computer Table (size :910Lx450Dx 750Hmm) (Otobi of SROP007LB /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	9,399.15
11.34.04	Computer Table (size 1000Lx500Dx 750Hmm) (Navana of FTC 0661 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	8,255.36
11.34.05	Computer Table (size :1050Lx450Dx 700Hmm) (Otobi of TCCP001LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	11,386.70
11.34.06	Computer Table (size :800Lx500Dx 1400Hmm) (Otobi of TCCP007LB /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	10,258.29
11.34.07	Computer Table (size 600Lx480Dx750Hmm) (Navana of FTC 0660 /Otobi/Hatil/Akther/ Brothers or equivalent best quality)	each	5,054.77
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	7,868.11
11.35.02	Side Rack : 750Wx400Dx750H mm size of Navana FCB 0652/Otobi/ Hatil/Akther/ Brothers or equivalent best quality)	each	7,067.96
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	28,210.29
11.36.02	Slotted Angle Rack (size : 1145Lx300Dx 1830H mm size) (Navana of FRS 4251 /Otobi/Hatil/Akther/Brothers or equivalent best quality)	each	17,869.93
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)		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.37.01	Class Room Chair with bottom metal netting basket (Navana of FCC 2353 /Otobi/ Hatil/ Akther/ Brothers or equivalent best quality)	each	9,588.93
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	6,667.89
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	5,188.13
11.37.04	Class Room Chair without basket (Navana of FCC 2352 / Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	5,054.77
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 Stailless 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	20,524.27
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	17,310.86
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	14,387.25
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	10,117.23
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	12,656.16
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	17,439.09
11.39.02	Double Bed 2042Lx1540Wx845Hmm size (Otobi of BDDB019LB /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	23,350.42
11.39.03	Double Bed 2050Lx1668Wx700Hmm size (Otobi of BDDB007LB /Navana/Hatil/ Akther/ Brothers or equivalent best quality)	each	25,517.49
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	37,724.85
11.40.02	Double Bed 2050Lx1540Wx800Hmm size (Otobi of BDDP050WD /Navana/Hatil/Akther /Brothers or equivalent best quality)	each	41,481.94

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.40.03	Double Bed 2084Lx1600Wx1050Hmm size (Otobi of BDDP089WD /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	59,780.16
11.40.04	Double Bed 2084Lx1600Wx1050Hmm size (Akther of AFL-BED-150 /Otobi/Navana/ Hatil/ Brothers or equivalent best quality)	each	69,412.69
11.40.05	Double Bed 2084Lx1540Wx1050Hmm size (Akther of AFL-BED-150 /Otobi/Navana/ Hatil/ Brothers or equivalent best quality)	each	62,211.37
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	12,822.86
11.41.02	Single mattress 2000mmx1000mm size with minimum 200mm thick of approved best quality	each	19,234.29
11.41.03	Double mattress 2000mmx1600mm size with minimum 100mm thick of approved best quality	each	17,798.13
11.41.04	Double mattress 2000mmx1600mm size with minimum 200mm thick of approved best quality	each	23,299.13
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	10,399.34
11.42.02	Single seated Sofa (Otobi of SSCP012LR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	21,209.01
11.42.03	Single seated Sofa (Otobi of SSCP094FF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	31,467.29
11.42.04	Double seated Sofa (Otobi of SDCP006FR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	18,657.26
11.42.05	Double seated Sofa (Otobi of STCP007LR /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	46,764.96
11.42.06	Double seated Sofa (Otobi of SDCP047FF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	49,175.66
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	18,516.21
11.43.02	Wooden Double seated Sofa (Otobi of SSCE009FF /Navana/ Hatil/ Akther/ Brothers or equivalent best quality)	each	29,184.82
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	8,976.00
11.44.02	Wooden Center Table (Otobi of CTCE009WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	9,681.26
11.44.03	Wooden Center Table (Otobi of CTCP049WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	10,540.39

District : CUMILLA, B.BARIA, CHANDPUR
Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
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	32,890.63
11.45.02	Wooden Dining Table (size : 1650Lx950W x 750H) (Otobi of TDDP049WD /Navana/Hatil/ Akther/Brothers or equivalent best quality)	each	35,904.00
11.45.03	Wooden Dining Table (size : 1520Lx912Wx 744H) (Otobi of TDDP012MF /Navana/Hatil/Akther/Brothers or equivalent best quality)	each	38,289.05
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	70,546.23
11.46	Supplying Laminated board Dining Table of standard size made of best quality imported 18mm thick scratch 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	15,515.66
11.46.02	Round Table- (size: 1200Lx1200Wx 725Hmm) TCOP015LB of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	17,657.07
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	6,834.58
11.47.02	Wooden Dining Chair (size : 440Lx522W x 950Hmm) (Otobi of CFDP049WD /Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	8,334.86
11.47.03	Wooden Dining Chair (size : 410Lx475W x 895Hmm) (Otobi of FCDB002FR /Navana/ Hatil/ Akther /Brothers or equivalent best quality)	each	7,116.69
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	16,869.75
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	40,430.47
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	36,993.94
11.49	Supplying Laminated Melamine Board (LB) Wardrobe of standard size made of best quality imported 18mm thick scratch 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	30,454.29

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Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
11.49.02	4 Drawer Laminated Melamine Board (LB) Wardrobe (size: 806Lx503Wx1006Hmm) (Otobi of CDDB002KLB / Navana/ Hatil/ Akther / Brothers or equivalent best quality)	each	18,593.14
11.50	Supplying best quality Auditorium fixed Chair standard special size of zinc phosphate coated oven backed powder paint finish casting Iron of 4 legs with two arm made in twin chair. Arm covered by wooden top or pre approved materials. Foam cushioning seat and back pasted on imported ply wood or woodtex and covered by foreign Fabric or Rexene fine finishing etc all complete as per design and direction of the E-I-C. (This item includes delivering the furniture at the instructed place and price for one seat).		
11.50.01	Auditorium fixed Chair (CFAP003 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	14,233.37
11.50.02	Auditorium fixed Chair (FCA 2412 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	11,704.70
11.50.03	Auditorium fixed Chair (FCA2413 of Otobi/ Navana/ Hatil/ Akther/Brothers or equivalent best quality)	each	8,334.86
11.51	Supplying MS Bed of standard size made of best quality mild steel round tube leg (minimum 38mm diameter and 1.2mm thick) and rectangular box tube (minimum 50mmx25mmx1.2mm) framing of standard thickness with zink phosphate coated electro-static epoxy powder oven backed paint finishing with head, leg and two nos side rail in same standard thick and size and fitted in rust proof clamp-screw and bed slats 16mm thick garjon ply wood board fitted over 19mmx19mm x1.2mm MS box tube framing with removal mosquito net stands option and extra two nos verticale support best quality double or single mattress as in requiremenrts (excluding the 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)		
11.51.01	Single size MS Bed of L2130xW915XH750mm size of of Navana/ Otobi/ Hatil/ Akther/Brothers or equivalent best quality)	each	13,335.77

Chapter 12

Electro-Mechanical Works

District : CUMILLA, B.BARIA, CHANDPUR

Schedule of Rates, LGED, October 2019

Item Code	Brief Description of Item	Unit	Rate
1	2	3	4

Chapter - 12 : Electro-Mechanical Works

12.01	Providing Window type Air – Cooler of following cooling capacity based on indoor temperature 270 C DB/19.50 C WB and outdoor temperature 350 C at high fan speed condition complete with well balanced propeller type direct driven centrifugal type blower fan for condenser and evaporator with regulator, fancy and adjustable air circular louver removal & washable filter , expansion valve , thermostat control switch, fresh air intake arrangement etc. as required suitable for operation at 230V, single phase 50 Hz. A.C. supply (Major components of the machine shall be in conformity with relevant international standards and codes) Boomyang /Carrier/ Daikin/ Dunhumbush / General/Toshiba/ Trane / York / (Assembled in Thailand / Malayasia / Taiwan/ Korea /Japan/ USA/ EU Countries)or equivalent by the Engineering - in- Charge.		
12.01.01	17000-18000 BTU/hr with out Remote Control	each	91,952.71
12.01.02	17000-18000 BTU/hr with Remote Control	each	94,542.93
12.01.03	22500-24000 BTU/hr with out Remote Control	each	104,903.79
12.01.04	22500-24000 BTU/hr with Remote Control	each	107,494.01
12.02	Supply , installation , testing and commissioning of split type room air –cooler comprising condensing and evaporating units having following cooling capacity based on indoor temperature 270 C DB/19.50 C WB and outdoor temperature 37 0 C DB in/c providing refrigerant copper pipe with thermal insulation , refrigerant charging ,necessary wiring with required size of PVC insulated and sheathed cable with ECC through water grade PVC pipe from the source of supply available within 10 (ten) meter form the condensing unit location etc. complete suitable for operation at 230 volts single – phase /400V 3- phase, 50 Hz . A.C. supply as per direction of the E/Ch. (Major components of the machine shall be in conformity with relevant international standards and codes.) Compact weather proof out –door type condensing unit copper condensing coil, well balanced in all respect having inter – lock with the fan coil unit propeller type fan / hermitically sealed compressor duly equipped with vibration –isolator, thermostatic and overload controls , magnetic contactors and all other standard accessories complete. Specified Nos . of matching ceiling / wall /floor /mounted direct expansion system fan coil unit (FCU) having well balanced direct driven centrifugal type fan , fancy and adjustable air circulating louver grill, removable and washable type filter ,condensing water tray, condense water drain out PVC flexible pipe / PVC pipe with necessary insulation, thermostatic switch etc. connected by individual refrigerant circuit with individual compressor of the condensing unit. Carrier / Daikin / Dunhumbush / General / Trane / York (Assembled in Thailand / Malayasia / Taiwan / Korea / Japan /USA/ EU Countries or equivalent approved by the Engineering in Charge.)		
12.02.01	Split Air Cooler-Wall Mounted (17000-18000 BTU/hr)	each	118,270.12
12.02.02	Split Air Cooler-Wall Mounted (22500-24000 BTU/hr)	each	135,231.56
12.02.03	Split Air Cooler-Wall Mounted (30000 BTU/hr)	each	187,420.59
12.02.04	Split Air Cooler-Ceiling Suspended (18000 BTU/hr)	each	142,472.79
12.02.05	Split Air Cooler-Ceiling Suspended (24000 BTU/hr)	each	162,043.67
12.02.06	Split Air Cooler-Ceiling Suspended (36000 BTU/hr)	each	253,374.47
12.02.07	Split Air Cooler-Ceiling Suspended (45000 BTU/hr)	each	292,516.24
12.02.08	Split Air Cooler-Ceiling Suspended (54000 BTU/hr)	each	318,610.76
12.02.09	Split Air Cooler-Cassette Type (17000-18000 BTU/hr)	each	148,996.41
12.02.10	Split Air Cooler-Cassette Type (22500-24000 BTU/hr)	each	167,262.57
12.02.11	Split Air Cooler-Cassette Type (34500-36000 BTU/hr)	each	249,460.29

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.03	Operation of all equipment of the Central air-conditioning and ventilation system of the following capacities for eight hours per day. During normal office hours by engaging experienced Engineer and skilled technical staffs/operators as required as per attached operation manual and direction of Engineer-in-charge. List of Equipment: a) Chillers : (Total..... R. ton capacity) b) Compressor & compressor motors (..... Nos.) c) Condensing Water Pumps (..... H.P Nos.) d) Chilled water pumpss : (..... H.P Nos.) e) Air Compressor(..... Nos.) f) Air Handling Unit (..... Nos.) g) Cooling tower motors (..... Nos.) h) Cooling towers (..... Nos.) i) Make-up water tanks (..... Nos.) j) Condensing water pipe lines k) Chilled water pipe lines l) Air-Conditioning Ducts All other equipment and ancillary accessories and other items which are part and parcel of the above mentioned air-conditioning and ventilation system but not mentioned above in item sl. From a to 1.		
12.03.01	Upto 300 R. Ton	month	82,197.72
12.04	Through maintenance, servicing and minor repairing in/c. necessary replacement of defective minor spare parts (Departmentally supplied) if any, as per detailed daily, weekly, monthly, half yearly and yearly. Basis work schedule attached for smooth functioning of the following capacity air-conditioning & ventilation system as per standard engineering practice and maintenance manual of the manufacturer and direction of the Engineer-in-charge. (including all consumable materials) List of Equipment: a) Chillers : (Total..... R. ton capacity) b) Compressor & compressor motors (..... Nos.) c) Condensing Water Pumps (..... H.P Nos.) d) Chilled water pumpss : (..... H.P Nos.) e) Air Compressor(..... Nos.) f) Air Handling Unit (..... Nos.) g) Cooling tower motors (..... Nos.) h) Cooling towers (..... Nos.) i) Make-up water tanks (..... Nos.) j) Condensing water pipe lines k) Chilled water pipe lines l) Air-Conditioning Ducts All other equipment and ancillary accessories and other items which are part and parcel of the above mentioned air-conditioning and ventilation system but not mentioned above in item sl. From a to 1.		
12.04.01	Upto 300 R. Ton	month	12,313.98
12.05	Supply of chemical for central Air-cooler (best quality).		
12.05.01	Scale & Corrosion Inhibitor	litre	833.49
12.05.02	Micro biocide for Bacterial Control	litre	950.17
12.05.03	Alga Cide (Algae Control)	litre	992.49
12.05.04	Closed circuit Corrosion Inhibitor	litre	782.19
12.06	Supply of spare parts for detail list of spares mentioning parts number as per recommendation of the manufacturer in lot.		
12.06.01	Mother Board PCB ASILOG 3.Q	each	142,564.53
12.06.02	CPU PCB FCID 360 Q	each	111,815.31
12.06.03	Brake Module PCB MBB 3 M	each	118,803.77
12.06.04	Safety Circuit PCB SKE 1.M	each	112,094.85
12.06.05	Car interface PCB ICE 1.Q	each	140,048.68
12.06.06	COP Interface PCB TIC	each	79,109.33

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1	2	3	4
12.06.07	PCB LONIOS 16 Q	each	72,679.95
12.06.08	PCB LONBIO 16 Q	each	48,919.20
12.06.09	PCB EBLON 2Q	each	113,213.01
12.06.10	PCB EBCIM 68 Q	each	55,907.66
12.06.11	Encoder Unit (Shaft Encoder)	each	114,890.24
12.06.12	Photo Sensor-24V DC (PHUET)	each	112,841.14
12.06.13	Print PVEC	each	405,330.51
12.06.14	Skip Module (85 BR)	each	408,125.90
12.06.15	Ventilaion Assembly	each	118,803.77
12.06.16	Thermostate	each	3,494.23
12.06.17	Assembly Motor	each	223,630.63
12.06.18	Door Contact Switch	each	4,891.92
12.06.19	Door Contact Bridge	each	978.38
12.06.20	Assembly Counter Roller	each	6,411.43
12.06.21	PCB LONIBV 1.Q	each	140,048.68
12.06.22	Clutch Roller	each	698.85
12.06.23	Rope Guide Roller	each	2,096.54
12.06.24	Main Guide Shoe	each	4,891.92
12.06.25	Counter Guide Shoe	each	4,193.07
12.06.26	Bottom Roller	each	1,677.23
12.06.27	V-Ribbed Belt	each	2,795.38
12.06.28	Car Position Indicator	each	27,953.83
12.06.29	Hall Position Indicator	each	12,579.22
12.06.30	Decoder PCB For Hall position indicator	each	27,953.83
12.06.31	Gear Oil (Synthetic)	each	2,655.61
12.06.32	Rope Oil	each	559.08
12.06.33	Uain Magnetic Contactor	each	11,880.38
12.06.34	Relay For Brake	each	9,084.99
12.06.35	Print PIOVECL 3 Q	each	146,757.60
12.07.01	HT Switch gear :		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.01.1	HT Switch gear : Supplying of following 11 KV, 3- phase 50 HZ, indoor type , high tension switch gear complete with 630/800 Amps hard-drawn electrolytic copper bus-bar, 1 no 0- 15 KV range voltmeter, 1 no ammeter of adequate range both with selector switch & OFF push button switch and ON-OFF- TRIP indicators including following components (components manufactured & tested in EU Countries/USA/Japan) locally factory assembled in 14 SWG sheet steel metal clad, dust & vermin proof free standing , floor mounting, epoxy resin powder coat painted cabinet components must comply VDE/IEC/BS standard) With withdraw able type vacuum circuit breaker i) 1 set of 11 KV, 800 Amps (20KA), 3-phase , 50 HZ, trolley mounted fully withdraw able type vacuum circuit breaker complete with motor operated spring charged stored energy mechanism for auto tripping at 12/24/48/110 volts DC(without battery) ii) 2 nos, 11 KV cast resin insulated, dry type , double pole PT having ratio 11/0. 11, burden 50 VA first core of class 0.5M5 for metering & second core of class 10 P 10 for protection. iii) 3nos. 11KV 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 MS for metering and second core of class 10P10 for protection. iv) 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. v) 1 no 415V, 6A (10 KA) TP MCB for PT secondary protection Assembled by AEG/ Energy pac/ SIEMEN or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,423,208.91
12.07.01.2	With Load Break Switch (LBS) : Supply of 11 KV, 3-phase, 50 Hz, indoor type, high tension switchgear complete with Load Break Switch (LBS), 800 Amps hard-drawn electrolytic copper bus-bars, 1 No. 0-15 KV range voltmeter & 1 no. 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 (components such as LBS, HRC fuse. CT, PT shall be manufactured & tested as per NEMA/VDE/IEC/JIS/BS Standards) 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. 1 Set of 11 KV, 630 A (25KA), 50 Hz, triple pole, manually operated off load isolator interlocked with earth switch. 1 Set of 11 KV, 630A (25KA), 50 Hz, spring charged, stored energy mechanism triple pole load break switch (LBS) complete with 3 no.s of 11 KV HRC fuse of suitable Amps. (20KA) with spring operated striker pin plunger for automatic tripping activated by any of the three 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 Govt. of Bangladesh owned/Shared company or the valid ISO-9001 certified company having type test certificate for whole panel from any internationally accredited independent laboratory.	each	589,851.43
12.07.02	Transformer oil type; Supplying of the following oil-immersed , natural air cooled , 3- phase, 50 HZ, 11 KV /0. 415 KV & 0.24 KV out door type distribution transformer of DYN11 vector group having percentage impedance 4- 6.5%, basic impulse insulation level 75 KV , HT& LV porcelain bushing, manual 5 position standard top changer, conservator, thermometer, oil inlet & outlet valves, oil level indicator, dehydrating breather, lifting lug, earthing terminals, wheel, data plate etc. in/c painting, suitable for operation at 40°C ambient temperature with maximum temperature rise 60.C, locally manufactured in Bangladesh as per VDE/ IEC/BS standard.		
12.07.02.01	a)Capacity : 150 KVA b)No load loss 350 watts (maximum) c) Full load loss (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	543,945.60
12.07.02.02	a) Capacity: 200 KVA b)No load loss 500 watts (maximum) c)Full load loss 2800 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	582,798.86

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.02.03	a) Capacity: 250 KVA b)No load loss750 watts (maximum) c)Full load loss 4900 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge	each	725,260.80
12.07.02.04	a) Capacity:300 / 315 KVA b)No load loss 800 watts (maximum) c)Full load loss 5000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	849,591.22
12.07.02.05	a) Capacity:400 KVA b)No load loss850 watts (maximum) c)Full load loss 5200 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,010,184.69
12.07.02.06	a) Capacity:500 KVA b)No load loss1000 watts (maximum) c)Full load loss 5800 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,113,793.37
12.07.02.07	a) Capacity: 600/630 KVA with buchholz relay b)No load loss1200 watts (maximum) c)Full load loss 7500 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,365,044.43
12.07.02.08	a) Capacity:800 KVA with buchholz relay b)No load loss1400 watts (maximum) c)Full load loss 9000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge	each	1,541,179.20
12.07.02.09	a) Capacity:1000 KVA with buchholz relay b)No load loss1800 watts (maximum) c)Full load loss 12000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,968,565.03
12.07.02.10	a) Capacity:1250 KVA with buchholz relay b)No load loss2000watts (maximum) c)Full load loss 15000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,972,450.35
12.07.02.11	a) Capacity:1500/ 1600 KVA with buchholz relay b)No load loss2200 watts (maximum) c)Full load loss 18000 watts (maximum) Assembled by AEG/ Energy pac / SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	2,460,706.29
12.07.02.12	a) Capacity: 2000 KVA with buchholz relay b)No load loss2400 watts (maximum) c)Full load loss 20000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	2,864,780.16
12.07.03	Transformer dry type; Supplying of the following dry type cast resin, natural air cooled , 3-phase, 50 HZ, 11 KV /0.415 KV & 0.24 KV indoor type distribution transformer of DYN11 vector group having percentage impedance 4- 6.5%, basic impulse insulation level 75 KV , HV& LV porcelain bushing, manual 5 position standard tap changer, complete with two windings of high conductivity copper, earthing terminals, temperature sensor with thermometer, thermostat controlled blower fan, lifting lugs, data plate etc. complete as required with maximum 60. C temperature rise and suitable for operation at 40.C ambient temperature manufactured & tested by Trafo- union (Germany) / Trihal (France) or equivalent according to the specification & direction of the Engineer- in-charge according to VDE/ IEC/BS standard.		

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Item Code	Brief Description of Item	Unit	Rate
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12.07.03.1	a) Capacity: 500 KVA b)No load loss1300 watts (maximum) c)Full load loss 5500 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,424,619.43
12.07.03.2	a) Capacity: 630 KVA b)No load loss2400 watts (maximum) c)Full load loss 20000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	1,767,823.20
12.07.03.3	a) Capacity:800 KVA b)No load loss1700 watts (maximum) c)Full load loss7600 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	2,039,796.00
12.07.03.4	a) Capacity:1000 KVA b)No load loss2000 watts (maximum) c)Full load loss 8700 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	2,590,217.14
12.07.03.5	a) Capacity:1250 KVA b)No load loss2300 watts (maximum) c)Full load loss 10500 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	3,127,687.20
12.07.03.6	a) Capacity:1500/1600 KVA b)No load loss 2800 watts (maximum) c)Full load loss 13500 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	3,237,771.43
12.07.03.7	a) Capacity 2000 KVA b)No load loss 3500 watts (maximum) c)Full load loss 16000 watts (maximum) Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	3,263,673.60
12.07.04	indoor type low tension switch gear of the following specification complete with voltmeter (0-500)& ammeter of adequate rating both with selector switch, indicating lamps for ON – OFF and following components (except busbars manufactured & tested in EU countries / USA/ Japan) locally factory assembled in 16 SWG sheet steel clad, dust & vermin proof, free standing, floor mounting epoxy resin powder coat painted cabinet (MCCB in LT panel must comply VDE/IEC/BSS standardindoor type low tension switch gear of the following specification complete with voltmeter (0-500)& ammeter of adequate rating both with selector switch, indicating lamps for ON – OFF and following components (except busbars manufactured & tested in EU countries / USA/ Japan) locally factory assembled in 16 SWG sheet steel clad, dust & vermin proof, free standing, floor mounting epoxy resin powder coat painted cabinet (MCCB in LT panel must comply VDE/IEC/BSS standard		
12.07.04.01	For 150 KVA Transformer Incoming:1set- 415V, 300A TP & NE hard drawn electrolytic copper bus bar. 1 no- 415V, 250A (35 KA), adjustable type TPMCCB for main control with thermal over load & instantaneous electro magnetic short circuit release. 3 no- 415 V, 250/5 ratio current transformer with suitable accuracy& burden. Outgoing; 2 nos. - 415 V, 150/160A (25 KA), adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 100A (16 KA), TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,60/63A (16 KA), TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA), TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. Assembled by AEG/Energy pac /SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	213,692.91

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.04.02	For 200 KVA Transformer Incoming: 1 set- 415V, 400A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 300/320A (35 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 300/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 200A (25 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 150/160A (25 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 nos- 415 V, 100A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 60/63A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	258,374.16
12.07.04.03	For 250 KVA Transformer Incoming: 1 set- 415 V, 500A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 400A (35 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 400/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 250A (25 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 2 no- 415 V, 150/160A (25 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 nos- 415 V, 100A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 60/63A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	278,836.88
12.07.04.04	For 300/315 KVA Transformer Incoming: 1 set- 415 V, 600A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 500A (35 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 500/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 300A (35 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 250A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 nos- 415 V, 200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 60/63A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	323,777.14

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.04.05	For 400 KVA Transformer Incoming:1set- 415 V, 800A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 600/630A (50 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 600/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 400A (35 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 250A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 nos- 415 V,200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,60/63A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	398,893.44
12.07.04.06	For 500 KVA Transformer Incoming:1set- 415, 1000A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 800A (50 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 800/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 500A (35 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 2 no- 415 V, 250A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 nos- 415 V,200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,60/63A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	446,812.46
12.07.04.07	For 600/630 KVA Transformer Incoming:1set- 415 V, 1200A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 1000A (65 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 1000/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 600A (50 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 3 no- 415 V, 250A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 nos- 415 V,200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,100A (16 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	543,945.60

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1	2	3	4
12.07.04.08	For 800 KVA Transformer Incoming:1set- 415V, 1500A TP&NE hard drawn electrolytic copper busbar. 1 no- 415V, 1200/1250A(65 KA) , adjustable type TPMCCB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 1200/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 800A (65 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 2 no- 415 V, 300/320A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 4 nos- 415 V,250A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge. 2 no- 415 V, 300/320A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 4 nos- 415 V,250A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,150/160A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of the Engineer- in-charge.	each	621,652.11
12.07.04.09	For 1000 KVA Transformer Incoming:1set- 415 V, 1800A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 1600A (80 KA) , adjustable type TPMCCB/ACB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 1600/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 1000A (65 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 2 no- 415 V, 300/320A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 6 nos- 415 V,250A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,100A (16 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release the Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	each	984,282.51
12.07.04.10	For 1250 KVA Transformer Incoming:1set- 415 V, 2500A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 2000A (80 KA) , adjustable type TPMCCB /ACB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 2000/5 ratio current transformer with suitable accuracy& burden. Outgoing; 1 no. - 415 V, 1250A (65 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 400A (35 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V,300/320A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 4 no- 415 V,250A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 no- 415 V,200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release 1 no- 415 V,80A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic release 1 no- 415 V,30/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic release	each	1,295,108.57

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.04.11	For 1500 KVA Transformer Incoming: 1 set- 415 V, 3000A TP&NE hard drawn electrolytic copper busbar. 1 no- 415 V, 2200A (80 KA) , adjustable type TPMCCB /ACB for main control with thermal over load & instantaneous electro-magnetic short circuit release. 3 nos- 415 V, 2500/5 ratio current transformer with suitable accuracy& burden. Outgoing: 1 no. - 415 V, 1600A (80 KA) , adjustable type TP MCCB with thermal over load & instantaneous electro-magnetic short circuit release.(one for PFI control) 1 no- 415 V, 600A (50 KA) adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 2 nos- 415 V, 400A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 4 no- 415 V, 300/320A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release. 1 no- 415 V, 250A (35 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic short circuit release 2 no- 415 V, 200A (25 KA) , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic release 1 no- 415 V, 100A (16 KA) , , adjustable type TPMCCB with thermal over load & instantaneous electro-magnetic release 1 no- 415 V, 130/32A (16 KA) , TPMCCB with thermal over load & instantaneous electro-magnetic release Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	each	1,843,587.05
12.07.05	Power factor improvement plant: Supplying of following 415volt , 3-phase, 50HZ power factor improvement plant complete with TP busbars and earth block, micro processor controlled auto power factor correction relay with digital PF reading display, capacitor bank, contactor, fuse, ON indicator for every stage of capacitor bank (except directly connected one)etc. locally factory assembled in 16SWG sheet steel clad dust& vermin proof, free standing , floor mounting , epoxy resin power coat painted cabinet contactors, capacitor bank relays, discharge resistor, fuse etc. shall comply VDE/IEC/BSS standard and shall be manufactured & tested in USA/ JAPAN/ EU countries	each	
12.07.05.01	For 150 KVA Transformer PFI capacity 90 KVAR- 3 no- 415 V, 200A hard drawn electrolytic copper busbar. 1 no- 415 V , 5 KVAR, 50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 2 nos- 415 V , 5 KVAR, 50 HZ TP power capacitor bank with built in / separate discharge resistor 6 nos- 415 V , 12.5 KVAR, 50 HZ TP power capacitor bank with built in / separate discharge resistor 2 nos- 415 V , 10A, 50 HZ TP magnetic contactor with AC3 duty 6 nos- 415 V , 20A, 50 HZ TP magnetic contactor with AC3 duty 9 nos- 415V, 10A, HRC fuse with base. 18 nos- 415V, 25A, HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	247,193.49
12.07.05.02	For 200 KVA Transformer PFI capacity 120 KVAR 3 no- 415 V, 250A hard drawn electrolytic copper busbar. 1 no- 415 V , 5 KVAR, 50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1 nos- 415 V , 5 KVAR, 50 HZ TP power capacitor bank with built in discharge resistor 3 nos- 415 V , 10 KVAR, 50 HZ TP power capacitor bank with built in discharge resistor. 4 nos- 415 V , 20A, 20 KVAR 50 HZ TP power capacitor bank with built in discharge resistor. 1 nos- 415 V , 10A, 50 HZ TP magnetic contactor with AC3 duty 3 nos- 415 V , 16A, 50 HZ TP magnetic contactor with AC3 4 nos- 415 V , 32A, 50 HZ TP magnetic contactor with AC3 6 nos- 415V, 10A, HRC fuse with base. 9 nos- 415V, 20A, HRC fuse with base. 12 nos- 415V, 40A, HRC fuse with base. 9 nos- 415V, 50A, HRC fuse with base	set	259,021.71

District : CUMILLA, B.BARIA, CHANDPUR

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.05.03	For 250 KVA Transformer PFI capacity 150 KVAR 3 no- 415 V, 300A hard drawn electrolytic copper busbar. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 5nos- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 3nos- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in /separate discharge resistor. 5nos- 415 V ,20A, 50 HZ auto TP magnetic contactor with AC3 duty. 3nos- 415 V ,40A,50 HZ autoTP magnetic contactor with AC3 duty 15nos- 415 V ,25A, HRC fuse with base 9nos- 415V,50A,HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	284,923.89
12.07.05.04	For 300/315 KVA Transformer PFI capacity 187.5 KVAR 3 no- 415 V, 400A hard drawn electrolytic copper busbar. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 2nos- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 6nos- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in /separate discharge resistor. 2nos- 415 V ,20A, 50 HZ TP magnetic contactor with AC3 duty. 6nos- 415 V ,40A,50 HZ TP magnetic contactor with AC3 duty 9nos- 415 V ,25A, HRC fuse with base 18nos- 415V,50A,HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	323,777.14
12.07.05.05	For 400 KVA Transformer PFI capacity 240 KVAR 3 no- 415 V, 500A hard drawn electrolytic copper busbar. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1nos- 415 V ,10 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 2nos- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 4nos- 415 V ,25 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 2nos- 415 V ,50 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 1no- 415 V ,20A, 50 HZ auto TP magnetic contactor with AC3 duty. 2nos- 415 V ,16A,50 HZauto TP magnetic contactor with AC3 duty 4nos- 415 V ,40A,50 HZ auto TP magnetic contactor with AC3 duty 2nos- 415 V 80A,50 HZ auto TP magnetic contactor with AC3 duty 9nos- 415 V ,25A, HRC fuse with base 3nos- 415V,20A,HRC fuse with base. 12nos- 415 V ,50A, HRC fuse with base 6nos- 415V,100A,HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	369,105.94

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.05.06	For 500 KVA Transformer PFI capacity 300 KVAR 3 no- 415 V, 600A hard drawn electrolytic copper busbar. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 5nos- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 3nos- 415 V ,50 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 1no- 415 V ,20A, 50 HZ auto TP magnetic contactor with AC3 duty. 5nos- 415 V ,40A,50 HZ auto TP magnetic contactor with AC3 duty 3nos- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 6nos- 415 V ,25A, HRC fuse with base 15nos- 415V,50A,HRC fuse with base. 9nos- 415 V ,100A, HRC fuse with base Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	427,385.83
12.07.05.07	For 630 KVA Transformer PFI capacity 300 KVAR 3 no- 415 V, 600A hard drawn electrolytic copper busbar. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 1no- 415 V ,12.5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 5nos- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 3nos- 415 V ,50 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 1no- 415 V ,20A, 50 HZ auto TP magnetic contactor with AC3 duty. 5nos- 415 V ,40A,50 HZ auto TP magnetic contactor with AC3 duty 3nos- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 6nos- 415 V ,25A, HRC fuse with base 15nos- 415V,50A,HRC fuse with base. 9nos- 415 V ,100A, HRC fuse with base Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	543,945.60
12.07.05.08	For 800 KVA Transformer PFI capacity 480 KVAR 3 no- 415 V, 900A hard drawn electrolytic copper busbar. 1no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 4no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 1no- 415 V ,5 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 5nos- 415 V ,50 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 1no- 415 V ,100 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 4no- 415 V ,40A,50 HZ auto TP magnetic contactor with AC3 duty 1nos- 415 V ,10A,50 HZ auto TP magnetic contactor with AC3 duty 5nos- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 1no- 415 V ,160A,50 HZ auto TP magnetic contactor with AC3 duty 15nos- 415V,50A,HRC fuse with base. 3nos- 415 V ,10A, HRC fuse with base 15nos- 415V,100A,HRC fuse with base. 3nos- 415 V ,200A, HRC fuse with base Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	621,652.11

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.05.09	For 1000 KVA Transformer PFI capacity 600 KVAR 3 no- 415 V, 1200A hard drawn electrolytic copper busbar. 1no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 4no- 415 V,50 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 3nos- 415 V ,100 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 3no- 415 V ,40A, 50 HZ TP magnetic contactor with AC3 duty. 4no- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 3nos- 415 V ,160A,50 HZ auto TP magnetic contactor with AC3 duty 12nos- 415V,50A,HRC fuse with base. 12nos- 415 V ,100A, HRC fuse with base 9nos- 415V,100A,HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	802,967.31
12.07.05.10	For 1250 KVA Transformer PFI capacity 750 KVAR 3 no- 415 V, 1500A hard drawn electrolytic copper busbar. 1no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 3no- 415 V,50 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 5nos- 415 V ,100 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 3no- 415 V ,40A, 50 HZ TP magnetic contactor with AC3 duty. 3no- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 5nos- 415 V ,160A,50 HZ auto TP magnetic contactor with AC3 duty 12nos- 415V,50A,HRC fuse with base. 9nos- 415 V ,100A, HRC fuse with base 15nos- 415V,200A,HRC fuse with base. Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	1,010,184.69
12.07.05.11	For 1500 KVA Transformer PFI capacity 900 KVAR 3 no- 415 V, 1800A hard drawn electrolytic copper busbar. 1no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 3no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 4no- 415 V,50 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 6nos- 415 V ,100 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 3no- 415 V ,40A, 40 HZ TP magnetic contactor with AC3 duty. 4no- 415 V ,80A,50 HZ auto TP magnetic contactor with AC3 duty 6nos- 415 V ,160A,50 HZ auto TP magnetic contactor with AC3 duty 12nos- 415V,50A,HRC fuse with base. 12nos- 415V,100A,HRC fuse with base. 18nos- 415V,200A,HRC fuse with base Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	1,126,744.46

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.05.12	For 2000 KVA Transformer PFI capacity 1200 KVAR 3 no- 415 V, 2000A hard drawn electrolytic copper busbar. 1no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge coil for connection directly with line through fuse. 2no- 415 V ,25 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor 3no- 415 V,75 KVAR,50 HZ TP power capacitor bank with built in / separate discharge resistor. 6nos- 415 V ,150 KVAR , 50 HZ TP power capacitor bank with built in/ separate discharge resistor. 2no- 415 V ,40A, 40 HZ TP magnetic contactor with AC3 duty. 3no- 415 V ,125A,50 HZ auto TP magnetic contactor with AC3 duty 6nos- 415 V ,250A,50 HZ auto TP magnetic contactor with AC3 duty 9nos- 415V,50A,HRC fuse with base. 9nos- 415V,150A,HRC fuse with base. 18nos- 415V,300A,HRC fuse with base Assembled by AEG/ Energy pac/ SIEMENS or equivalent according to the specification & direction of Engineer- in-charge.	set	1,683,641.14
12.07.06	Lightning arrester Supplying of outdoor type 11 KV . 50 HZ , 100A (10 KA) , 75 KV BIL lightning arrester complete with mounting accessories etc. Manufactured by SIEMENS Bangladesh Ltd. Energy pac or equivalent . Product of USA ,EU countries (3nos in set	set	12,951.09
12.07.07	Drop out fuse: Supplying of outdoor type 11 KV . 50 HZ , 5 KA (20 KA) , drop out fuse complete with mounting accessories etc.mufacturered by SIEMENS Bangladesh Ltd. Energy pac or equivalent . Product of USA ,EU countries (3nos in set)countrries	set	12,951.09
12.07.08	Disconnecting switch: Supplying of 11 KV . 50 HZ , 320A,3- phase outdoor type Disconnecting switch having 75 KV BIL manufactured by drop out fuse complete with mounting accessories etc. mufacturered by SIEMENS Bangladesh Ltd. Energy pac or equivalent . Product of USA ,EU countries	set	77,706.51
12.07.09	U channel Cross arm: Supplying & fixing U- channel iron cross-arm of size 38mmx76mmx38mmx6.35mm on single pole / H- pole with the help of necessary clamps, nuts, bolt 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 Engineering- in- charge.	m	13,948.32
12.07.10	Installation of HT switch gear : installation, testing & commissioning of following 11 KV , 50 HZ , 3-phase, indoor type HT switch gear on prepared foundation with the help of necessary tools& plants , skilled labour & technician as per direction of the Engineering- in- charge.		
12.07.10.1	With fixed type vacuum circuit breaker	per job	17,700.67
12.07.10.2	With withdraw able type vacuum circuit breaker	per job	18,741.89
12.07.11	Installation of transformer: installation, testing & commissioning of following 11 KV / 0.415 KV, 50 HZ , 3-phase, indoor / outdoor type transformer on a prepared platform on pole /cc foundation with the help of necessary tools & plants skilled labour & technician as per direction of the Engineering- in- charge.		
12.07.11.1	150KVA 3- Phase transformer on H-pole	set	13,508.88
12.07.11.2	200-250KVA 3- Phase transformer on H-pole	set	13,894.85
12.07.11.3	150KVA 3- Phase transformer on CC pad	set	10,210.20
12.07.11.4	200-315KVA 3- Phase transformer on CC pad	set	11,632.90
12.07.11.5	400-630KVA 3- Phase transformer on CC pad	set	15,510.53
12.07.11.6	800-1000 KVA 3- Phase transformer on CC pad	set	19,783.10
12.07.11.7	1250-1600KVA 3- Phase transformer on CC	set	24,558.34
12.07.11.8	2000KVA 3- Phase transformer on CC pad	set	31,855.82
12.07.12	Installation of LT switch gear: installation, testing & commissioning of 415V, 3- phase,50 HZ indoor type LT switch gear / PFI plant suitable for following capacity transformer on prepared CC foundation with the help of necessary tools & plants, skilled labour & technician as per direction of the Engineering- in- charge		
12.07.12.1	150KVA 3- Phase transformer	set	8,329.73

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.12.2	200-400KVA 3- Phase transformer	set	10,340.35
12.07.12.3	500-600KVA 3- Phase transformer	set	11,487.48
12.07.12.4	800-1000KVA 3- Phase transformer	set	11,700.22
12.07.12.5	1250-1600KVA 3- Phase transformer	set	14,648.83
12.07.12.6	2000KVA 3- Phase transformer	set	17,772.48
12.07.13	Installation of HT Drop out fuse: Installation of HT Drop out fuse / lightning arrester/ disconnection switch on prepared U- channel cross- arm on single / H – pole with necessary fixing materials complete as per instruction of the Engineer-in-charge.		
12.07.13.1	Drop out fuse	set	1,994.47
12.07.13.2	Lightning arrester	set	1,994.47
12.07.13.3	Disconnection switch	set	1,994.47
12.07.14	Component of substation equipment: Supplying of the following component / equipments suitable for use at 11/0.415/0.240 KA & powersupply system manufactured and tested in USA / UK / Germany or equivalent approved by the Engineer-in-charge according to IEC / VDE / BS Standard.		
12.07.14.01	11 KV ,3-phase, 50 HZ HT VCB circuit breaker , 630A, 20KA	each	984,282.51
12.07.14.02	11 KV , 50 HZ 50 VA 11/0.11 ratio cast resin insulated potential transformer (PT) class 0.5	each	41,443.47
12.07.14.03	11 KV , 50 HZ 10-15VA adequate ratio , double core cast resin insulated current transformer (CT)	each	41,443.47
12.07.14.04	11 KV , 50 HZ 15VA adequate ratio , single core cast resin insulated current transformer (CT)	each	41,443.47
12.07.14.05	Microprocessor controlled three-phase 50 HZ IDMT relay for 11 KV switchgear	each	129,510.86
12.07.14.06	11 KV ,potential bushing (for transformer capacity up to 2MVA)	each	40,795.92
12.07.14.07	500V, potential bushing (for transformer capacity up to 2MVA)	each	14,246.19
12.07.14.08	Thermostat controlled panel heater for 11 KV , 50HZ, switchgear	each	10,334.97
12.07.14.09	Buchholz relay for 11/0.415 & 0.24 KA 3-phase, 50 HZ transformer.	each	36,910.59
12.07.14.10	415V50 HZ,3-phase capacitor bank of following capacity 5 KVAR	each	6,475.54
12.07.14.11	415V50 HZ,3-phase capacitor bank of following capacity 7.5 KVAR	each	9,065.76
12.07.14.12	415V50 HZ,3-phase capacitor bank of following capacity 10 KVAR	each	11,655.98
12.07.14.13	415V50 HZ,3-phase capacitor bank of following capacity 12.5 KVAR	each	16,836.41
12.07.14.14	415V50 HZ,3-phase capacitor bank of following capacity 20 KVAR	each	25,902.17
12.07.14.15	415V50 HZ,3-phase capacitor bank of following capacity 25 KVAR	each	28,492.39
12.07.14.16	415V50 HZ,3-phase capacitor bank of following capacity 40 KVAR	each	33,672.82
12.07.14.17	415V50 HZ,3-phase capacitor bank of following capacity 50 KVAR	each	45,328.80
12.07.14.18	415V50 HZ,3-phase capacitor bank of following capacity 100 KVAR	each	54,394.56
12.07.14.19	Power factor correction relay 6 stage	each	19,426.63
12.07.14.20	Power factor correction relay 9 stage	each	32,377.71
12.07.14.21	Oil level indicator for 11/0.415 & 0.24 KV transformer	each	6,475.54
12.07.14.22	Silicagel breather container for transformer	each	6,993.59
12.07.14.23	Silicagel for transformer breather	each	1,457.00
12.07.14.24	Transformer oil	each	388.53

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.15	MCCB: Supplying of 415, 3-phase, following capacity control circuit breaker feeder unit with thermal over current & instantaneous electromagnetic short- circuit release and (adjustable type above 100 A rating) for sub- station LT panel.	each	
12.07.15.01	30/32 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	9,842.83
12.07.15.02	40 A(16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	9,842.83
12.07.15.03	50 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	9,842.83
12.07.15.04	60 / 63 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	9,842.83
12.07.15.05	80 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	10,943.67
12.07.15.06	100 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	11,949.97
12.07.15.07	150/160 A (16 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	15,411.79
12.07.15.08	200 A (25 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	17,613.48
12.07.15.09	250A (35 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	20,644.03
12.07.15.10	300 / 320 A (35 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	49,567.69
12.07.15.11	400A (35 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	51,804.34
12.07.15.12	500A (35 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	55,080.97
12.07.15.13	600 /630 A (35 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	61,569.46
12.07.15.14	800 A (50 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	122,100.25
12.07.15.15	1000 A (50 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	158,521.29
12.07.15.16	1200/1250A (50 KA) TP MCCB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	166,421.45
12.07.15.17	1600A (65 KA) TP ACB. Manufacturer- AEG (Germany)/ Dorman & Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	203,332.05
12.07.15.18	2000 A (65 KA) TP ACB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	304,350.51

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.07.15.19	2500 A (65 KA) TP ACB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	362,630.40
12.07.15.20	3000 / 3200 A (65 KA) TP ACB. Manufacturer- AEG (Germany)/ Dorman& Smith (UK) / MEM (UK) SIEMENS (GERMANY / USA)or equivalent approved by the Engineer- in- charge.	each	459,763.54
12.07.16	HT automatic voltage regulator (HTAVR): Supplying of 150 Amps.6.35 KV , 50 HZ single phase oil immersed automatic voltage regulator (AVR) having voltage regulation+ - 10% in 32 steps of 5/8% each , basic insulation level 95KV ,Microprocessor based control, LCD display position indicator in/c all standard accessories manufactured & tasted in USA/Japan/EU countries or equivalent approved by the Engineer- in- charge according to VDE/IEC/BSS	each	2,007,418.29
12.07.17	LT automatic voltage regulator (LTAVR): Supplying , installation , testing & commissioning of following 415V , 3-phase 50 HZ electronically controlled automatic voltage stabilizer / regulator locally assembled in metallic painted cabinet suitable for input voltage range 300 – 400, output stepless continuous voltage 400 V +-3% correction speed 20V /sec (minimum) complete with phase failure and spike & surge fluctuation voltage protection auto shunt off at high& low voltage with autoreset system , overload & instantaneous short circuit protection by MCCB & relay , transient suppression circuit, ON-OFF TRIP indicators, voltmeter& ammeter,by pass circuit etc.		
12.07.17.01	15 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	146,488.32
12.07.17.02	20 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	183,110.40
12.07.17.03	30 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	228,888.00
12.07.17.04	40 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	232,811.79
12.07.17.05	50 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	313,903.54
12.07.17.06	60 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	340,062.17
12.07.17.07	75 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	438,157.03
12.07.17.08	100 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	591,185.01
12.07.17.09	150 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	713,093.37
12.07.17.10	200 KVA AVR Assembled by AEG / NAVANA / RAHIMA FROOZ or equivalent approved by the Engineer- in- charge	each	872,390.26
12.07.18	By pass switch: Supplying of off- load 11 KV 1-pole 600 Amps. single phase , self sequencing 2 position by pass switch suitable for use with 11 KV AVR maximum design voltage rating 15.5 KV , impulse withstand voltage : 110 KV , continuous current rating : 400 A complete with all standard accessories Made in USA / JAPAN / EU or equivalent approved by the Engineer- in- charge	each	259,021.71
12.07.19	Installation testing & commissioning of 11- KV by pass switch in pre supplied and installed pole on prepared MS channel including all required materials as per direction of the Engineer-in-charge.	each	23,912.06
12.07.20	Installation testing & commissioning of 11- KV AVR with all other necessary accessories / materials in the following method.	each	18,221.28

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12.08	3-Phase Diesel Generator: With ATS panel with sound attenuated acoustically treated canopy(Max sound level 75 dBA at 7m distance): Supply of 400&230v, 3-phase, 4-wire, 50Hz air/water cooled, floor mounted, indoor type following continuous capacity (Prime power) electric generating set suitable for tropicalized country complete with four stroke, 1500 rpm, diesel engine with all standard accessories viz. 12/24 voly 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, vibration device viz. auto sgut 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. TPMCCB of required rating for overload & instantaneous short circuit release, manual chage over switch, indicator for ON-OFF-TRIP etc. maintenance manual an manufactured, assembled and trsted in accordance with NEMA/IEC/VDE/JIS standards (Subject to satisfy standard test and approved by LGED) All components manufacturerd assembled and tested in USA /Japan/EU countries or Equivalent Approved by engineer in charge.		
12.08.01	30 KVA generator	each	1,570,800.00
12.08.02	40 KVA Generator	each	1,634,914.29
12.08.03	60 KVA Generator	each	1,814,434.29
12.08.04	80 KVA Generator	each	1,846,491.43
12.08.05	100 KVA Generator	each	2,128,594.29
12.08.06	150 KVA Generator	each	2,821,028.57
12.08.07	200 KVA Generator	each	3,551,931.43
12.08.08	250 KVA Generator	each	4,872,685.71
12.08.09	300 KVA Generator	each	5,424,068.57
12.08.10	400 KVA Generator	each	6,219,085.71
12.08.11	500 KVA Generator	each	7,462,902.86
12.08.12	Installation, testing & commisssoning of following electric generator on prepared cc pad with the help of necessary T&P, skilled labour, technician, Engineer & 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 relavent IEC/NEMA/VDE/JIS standards so that vibration transfer rate to foundation shall be almost zero etc. all complete as per direction of the E-I-C.		
12.08.12.1	30 KVA -80 KVA manual/ auto with soundproof acoustically treated canopy generating set.	each	39,237.94
12.08.12.2	100 KVA -150 KVA manual/ auto with soundproof acoustically treated canopy generating set.	each	50,778.51
12.08.12.3	200 KVA -300 KVA manual/ auto with soundproof acoustically treated canopy generating set.	each	56,164.11
12.08.12.4	400 KVA -500 KVA manual/ auto with soundproof acoustically treated canopy generating set.	each	78,988.80
12.08.13	Single-Phase Diesel Generator: With ATS panel, sound attenuated acoustiocally treated canopy (Max sond level 75 dba at 7m distance). Supply of 220v&230v, single-phase, 3-wire, 50Hz air/water cooled, floor mounted, indoor type following continuous capacity (Prime power) electric generating set suitable for tropicalized country complete with 4-stroke diesel/pertol engine with all standard accessories. 12v/24v DC battery and auto battery charger with ammeter radiator assemly, oil & fuel pump auto speed governor, air cleaner, fuel and oil tank, level & oil pressure gauge, RPM & hour meter.Start and stop switch, exhaust silencer, vibration device viz. auto sgut off with indicators for over load, over & under voltage high temperature, low oil pressure, over speed low fuel level etc. Couple with brush less, self excited alternator having control panel with auto voltage regulator volt meter and ammeter, selector switch and frequency meter. TPMCCB of required rating for over load and instantaneous short circuit release, manual change over switch, indicator for ON-OFF-TRIP etc. maintenance manual and manufactured, assembled and tested in accordance with NEMA/IEC/VDE/JIS standards (subject to satisfy standard test and approved by LGED) all components manufactured assembled and tested in USA/Japan/ EU or equivalent Approved by Engineer in Charge.		

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12.08.13.1	5KVA Generatir with recoil start petrol Engine	each	206,589.05
12.08.13.2	6KVA Generatir with Barrtry start Diesel Engine with canopy	each	464,187.43
12.08.13.3	7.5 KVA Generatir with Barrtry start Diesel Engine with canopy	each	532,148.57
12.08.13.4	8 KVA Generatir with Barrtry start Diesel Engine with canopy	each	547,963.00
12.08.13.5	10 KVA Generatir with Barrtry start Diesel Engine with canopy	each	573,427.91
12.09	LIFT/ESCALATOR Supply of passenger/ bed lift complete with car, control panels, driving motor, gearless, steel suspention ropes, safety devices, guide rails, push buttons, architraves (as required) with other necessary accessories etc. complete Country of origin: USA/European countries/Australia/Canada/Japan with certificates issued by internationally recognized authorities like TUV/DNV for the products of the manufacturer as per relavent standard. For speed 1.0 meter/second.		
12.09.1	Passanger Lift	each	
12.09.1.1	Capacity 450kg upto 3-stop	each	4,007,450.61
12.09.1.2	Capacity 550kg upto 3-stop	each	4,199,485.71
12.09.1.3	Capacity 650kg upto 3-stop	each	4,334,125.71
12.09.1.4	Capacity 750kg upto 3-stop	each	5,257,371.43
12.09.1.5	Capacity 1000kg upto 3-stop	each	6,488,365.71
12.09.1.6	Capacity 1150/1250kg upto 3-stop	each	8,091,222.86
12.09.1.7	Capacity 1350/1400Kg up to 3 Stop	each	8,860,594.29
12.09.1.8	Capacity 1500/1600Kg up to 3 Stop	each	9,097,817.14
12.09.2	Bed/Trolley/Service Lift	each	
12.09.2.1	Capacity 1250kg upto 3-stop	each	9,104,228.57
12.09.2.2	Capacity 1500kg upto 3-stop	each	9,745,371.43
12.09.3	Cargo Lift	each	
12.09.3.1	Capacity 2000kg upto 3-stop	each	11,797,028.57
12.09.3.2	Lift capacity 2500kg(cargo type)	each	12,181,714.29
12.09.4	Next per stoppage	each	166,697.14
12.09.5	For speed 1.0 (one) meter / Second	each	
	(i)Rates of lifts having speed more than 1.0 (one) meter/ Second up to 1.5 meters/ Second shall be 10% more than the corresponding rates of lift of speed 1.0 (one) meter / Second.		
	(ii)Rates of lifts having speed more than 1.5 meter/ Second up to 2.00 meters/ Second shall be 15% more than the corresponding rates of lift of speed 1.0 (one) meter / Second.		
	(iii)Rates of lifts having speed more than 2.0 meter/ Second shall be 17% more than the corresponding rates of lift of speed 1.0 (one) meter / Second.		

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12.09.6	Lift installation : Installation (with effective connection), testing & commissioning of the above lift including supplying of necessary fixing materials, shaft lighting with wiring, additional works on base foundation (if necessary) for machineries and painting of all parts and initial lubrication shall be carried out as per BS EN-81/EN-81 (Lift Directive 95/16/EC)/DIN/VDE/ANSI/ASME/A17.1/JIS. The supplier/ Installer shall carry out 16 hours per day trial run operation for 30days before handing over the lift to the competent authority. All electrical and civil works mending goods for damages in connection with installation (with effective connection) 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 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 LGED		
12.09.6.1	For 450Kg-550Kg Upto 6 stop	each	203,883.43
12.09.6.2	For 630Kg-1000Kg Upto 6 stop	each	228,246.86
12.09.6.3	For 1150Kg-1600Kg Upto 6 stop	each	275,691.43
12.10	AUCASTIC/SOUND SYSTEM :		
12.10. 34	Supplying and fixing of 24 Channel Mixing Console with the features of Premium ultra-low noise, high-headroom analog mixer. 16 state-of-the-art XENYX Mic Preamps comparable to stand-alone boutique preamps. Neo-classic "British" 3-band Eqs with semi-parametric mid band for warm and musical sound. 2 independent studio-grade 24-bit stereo FX processors with 99 awesome presets including reverb, chorus, flanger, delay, pitch shifter and various multi-effec. 4 Subgroup outputs and additional Mono output with sweepable Low Pass filter for subwoofer application. 4 Aux sends per channel: 2 pre/post fader switchable for monitoring/FX applications, 2 post fader (for internal FX or as external send). Brand Name: BEHRINGER, Model No.: SX2442FX, Country of Origin: GERMANY or Equivalent	set	189,993.71
12.10.01	Vocal Microphone: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Unidirectional vocal microphone suitable for super professional vocalist with On-Off switch, frequency response: 40Hz to 16 KHz, Connector XLR. Nominal impedance 350/12600 ohms Complete with required accessories and in conformity to specified codes and specification of international standard & CE/UL/CSA certificate. Model and sample to be approved by the E-I-C.	each	15,405.38
12.10.02	Condenser Microphone: Supply, installation (with effective connection), testing of condenser microphone: Precise electrets condenser measurement microphone Ultra-liner frequency response Well-balanced, true omni-directional pattern; Optimally suited for room connection applications Phantom powered, +15 V to + 48 V rugged construction and sleek, modern design Microphone stand adapter perfect for use with the ULTRA-CURVE DSP 8000/ ULTRA-CURVE PRO dsp 8024 or any other real-time analyzer. Type electros condenser, omni-directional. Impedance 600-1000 Ohms. Sensitivity 60 dB. Frequency response 15 Hz to 20 KHz. Connector XLR. Phantom power +15V to +48 V etc. 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.	each	37,845.38

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1	2	3	4
12.10.03	Wireless Microphone: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of high quality wireless Microphone system with receiver set as per following specification :- professional electrets microphone with ON status LED indicator , matt black finish, immune to radio frequency interference from mobile telephones, PDAs & other wireless devices operated within a conference room. Complies with international standard IEC 914. Power requirement: AC mains, 230V, Receiving Frequency: 690–865 MHz, Channel Selectable: 16 channels, Frequency Response: 50–18,000 Hz, ± 3 dB, Sensitivity: 2 μ V(S/N>12dB 25kHz deviation). Maximum Output Level: (MIC): -14dBV/100 Ω , (LINE): -4dBV/5k Ω , Operating Temperature: - 10°C to + 50°C, Transducer Principle: Dynamic, Directionality: Unidirectional, Frequency Range: 690–865 MHz, (UHF) , Standard accessory: AC / DC adapter, 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.	each	70,543.67
12.10.04	Mixing Console: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 16 Channel Mixing Console with the features of Total input channel 16, mono/sterio channel 8/4, mix buses 4/2, XENYX mic preamps 12 (XENYX PRO), channel EQ 4-band, aux sebdbs per channel 6, effect returns 2 sterio, metering 14-LED Brand Name: BEHRINGER, Model No.: XL1600, Country of Origin: GERMANY.	set	224,417.95
12.10.05	"Amplifier (500W-750W) : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of High power dual Channel professional audio power amplifier as per following specification: Output Power: 8ohms/sterio-(500w+500W)-(750W+750W)power band with (half power): 10Hz-40Khz (THD+N=0.5%)THD+N 20Hz-20KHz half power < 0.1%Frequency Response P0=1W RL=8 ohms, 0dB, +5dB-1dB, f=20Hz-50KHzS/N ratio (DIN Audio): 104dB Sensitivity 8 ohms at max +8dB Voltage gain att. Max: 32.1 dB Input impedance: 30K ohms (Balance), 15K ohms (sub balance) Idle power consumption: 35W Max power consumption 4ohms, 4000W Complete with required accessories and in conformity to specified codes and specification of international standard & CE/UL/CSA certificate. Model and sample to be approved by the E-I-C"	set	141,069.38
12.10.06	Amplifier (175W-300W): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of high power dual Channel professional audio power amplifier as per following specification: Output Power: 8ohms/sterio-(500w+500W)-(750W+750W) power band with (half power): 10Hz-40Khz (THD+N=0.5%) THD+N 20Hz-20KHz half power < 0.1% Frequency Response P0=1W RL=8 ohms, 0dB, +5dB-1dB, f=20Hz-50KHz S/N ratio (DIN Audio): 104dB Sensitivity 8 ohms at max +8dB Voltage gain att. Max: 32.1 dB Input impedance: 30K ohms (Balance), 15K ohms (sub balance) Idle power consumption: 35W Max power consumption 4ohms, 4000W Complete with required accessories and in conformity to specified codes and specification of international standard & CE/UL/CSA certificate. Model and sample to be approved by the E-I-C	set	108,371.09
12.10.07	Ceiling Speaker (6W-12W): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of ceiling speaker idea for airports, lounges, convention centers, corporate boardrooms, hotels/hospitals, museums, offices, school, theaters and theme parks, superior sound quality, wide dispersion and smooth off-axis coverage with following specification. Line Voltage: 70V/100V Sensitivity: 90dB Freq. response: 150Hz-15KHz Hole Cutting size: 150mm Baffle size: 185 installation (with effective connection): Ceiling Enclosure Material: Plastic Line Load resistance: 666 ohm Dispersion angle: 100 deg Complete with required accessories and in conformity to specified codes and specification of international standard model and sample to be approved by the E-I-C	set	10,917.38

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12.10.08	Auditorium Speaker: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of auditorium speaker with the following features: Impedance : 8 ohms Components : 2- way, 1x8"-12"+Ti35 RMS Power : 150 W Max Power :300 W Frequency response : 45Hz-20Hz, Sensitivity : (1W/1M) 99 dB etc. Suitable for use in tropical country like Banladesh, 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. i) Capacity : RMS 150W.	set	61,567.67
12.10.09	Stage Monitor Speaker : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Stage Monitor Speaker with the features of 90°x60° Elliptical Waveguides (Full Range Models), High Output, Low Distortion Transducers, Full Length Powder Coated Steel Grilles, High Frequency Driver Protection, High Voltage Crossovers, Trapezoidal Enclosures, Alloy Pole Mount Receptacles, High Frequency Boost Switch (+3dB), High Pass Output (Subwoofers), Signal And HF Protect LED Indicators. 15" LF, 2 Way FOH, 8 ohms, 45-20kHz, (+/-3dB), 98dB (1w@1m), Power Rating: 300W Continuous, 600W Music, 1200W Peak. Brand Name:WHARFEDALE PRO , Model No.:EVPX15M, Country of Origin:UK	set	70,543.67
12.10.10	Sound Equalizer: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Equalizer with the features of 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 -∞ 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% Brand Name:WHARFEDALE PRO, Model No.:Q230, Country of Origin:UK	set	76,955.09
12.10.11	Microphone Stand (Floor Type) : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of floor Mic stand complete with Arms and Mic holder. FOREIGN MADE Model & Sample to be approved by the competent authority.	set	7,070.52
12.10.12	Microphone Stand (Table Type): Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of floor Mic stand complete with Arms and Mic holder. FOREIGN MADE Model & Sample to be approved by the competent authority.	set	4,505.95
12.10.13	Sound Junction Box : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of sound junction box for stage floor, one box containing of 5 socket outlet for the system with inter connection cables.	each	7,711.67
12.10.14	Microphone cables : Supplying and fixing of best quality foreign made cables suitable for connection of Microphone & speaker Microphone cables (Twin core shielded)	m	139.77
12.10.15	Line Array: Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Line Array necessary accessories with the features of Safe and Secure, Holds up to 12 WLA-28 Speakers, Holds up to 8 WLA-28 Speakers with WLA-15B subwoofer, Multiple Hang Points, Tubular Steel Construction, Heavy Duty Welding, For use with the Wharfedale WLA-28 / WLA15-B only, Material-Steel. Brand Name: WHARFEDALE PRO, Model No.: WLA-28 Fly Frame, Country of Origin: UK	each	41,051.09

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12.10.16	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Instrument Microphones with the features of High tech zinc finish, 5 application specific models, Unidirectional polar responses, Neodymium magnets, Dent-resistant steel grilles, Rugged cast Zinc alloy body, Gold-plated XLR connector. Small diaphragm overhead / instrument condenser mic. suitable for cymbals, acoustic. guitars, pianos and other stringed instruments. Frequency response 30-20,000Hz, <1000 ohms, 46 dBV/Pa, >18dB, Brand Name:WHARFEDALE PRO, Model No.: KM3, Country of Origin:UK	each	28,228.24
12.10.17	"Rack/Cabinet : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of standard cabinet suitable for PA equipments, dissabled for easy shipping. Front glass door with lock.Made of 18 SWG MS sheet & MS angle of proper size and painted with plastic paint over anti corrosive rust proof under coat with following specification;Rota table wheels and fixed stands.Steel : 20"x20"x60" No. of rack : 5Fixed foot : 2Rotate wheel : 2"	each	15,405.38
12.10.18	Subwoofer : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Subwoofer Speaker (Line Array System) with the features of System Type-15" Subwoofer, Frequency Response-35Hz - 900Hz, Power (RMS / Programme / Peak)- 700W / 1400W / 2800W, Nominal Impedance-8Ω, Sensitivity (1m/1w)- 99dB, Max SPL-133dB, Inputs-2 x Speakon. Brand Name: WHARFEDALE PRO, Model No.: WLA-15B, Country of Origin: UK	each set	160,303.67
12.10.19	Supply and fixing of Main Auditorium Speaker (Line Array System) with the features of System Type 2 x 8"2-Way, Frequency Response-65 Hz-20 kHz, HF Waveguide Exit-1.4" /35.5mm, HF Diaphragm Material-Titanium, Nominal Coverage (H x V)- 100° x 10°, Power (RMS / Programme / Peak)- 400W / 800W / 1600W. Brand Name:WHARFEDALE PRO, Model No.: WLA-28, Country of Origin: UK or Equivalent	set	182,300.00
12.10.20	Supplying and Fixing of Speaker with the features of 15" LF, 2 Way FOH, 8 ohms, 45-20kHz (+/-3dB), 98dB (1w@1m), Power Rating: 300W Continuous, 600W Music, 1200W Peak. Brand Name:WHARFEDALE PRO, Model No.: EVP-X15 Country of Origin: UK or Equivalent	set	92,540.00
12.10.21	Supplying and Fixing of Speaker (Passive) with the features of 2-Way, 15" High Power Woofer, 50-20kHz Frequency Response (+/-3dB), 8 ohms Impedance, Bi-Amp, 98dB (1w@1m), Power Rating: 500W Continuous, 1000W Music, 2000 Peak. Brand Name: WHARFEDALE PRO, Model No.: DELTA-15, Country of Origin: UK or Equivalent	set	119,468.00
12.10.22	Supplying and Fixing of Monitor Speaker (Passive) with the features of 2-Way, 15" High Power Woofer, 55-20kHz Frequency Response (+/-3dB), 8 ohms Impedance, Bi-Amp, 98dB (1w@1m), Power Rating: 500W Continuous, 1000W Music, 2000 Peak. Brand Name:WHARFEDALE PRO, Model No.: DELTA-15M, Country of Origin:UK (Made in CHINA) or Equivalent	set	215.42
12.10.23	Supplying and Fixing of Subwoofer Speaker with the features of 15" subwoofer, 4 ohms, 45-250 kHz (+/-3dB), 99dB (1w@1m), Power Rating: 400W Continuous, 800W Music, 1600W Peak. Brand Name:WHARFEDALE PRO, Model No.: EVPX15B, Country of Origin: UK or Equivalent	set	160,501.14
12.10.24	Supplying and Fixing of Subwoofer Speaker with the features of 18" subwoofer, 4 ohms, 40-200 kHz (+/-3dB), 100dB (1w@1m), Power Rating: 600W Continuous, 1200W Music, 2400W Peak. Brand Name:WHARFEDALE PRO, Model No.: EVPX18B, Country of Origin: UK or Equivalent	set	160,501.14
12.10.25	Supplying and Fixing of Speaker (Passive) with the features of 15" LF x 2 Quasi 3 Way, 4 ohms, 40-20 kHz (+/-3dB), 100dB (1w@1m), Power Rating: 500W Continuous, 1000W Music, 2000W Peak. Brand Name: WHARFEDALE PRO, Model No.: EVP-X215, Country of Origin: UK or Equivalent	set	119,468.00
12.10.26	Supplying and Fixing of Column Speaker with the features of Rated Power: 10W, Impedance: 1kΩ/2kΩ, Frequency Response: 220Hz ~ 15kHz, SPL (1W/m): 87dB, Enclosure Material: Aluminum. Brand Name: INTER-M, Model No.: CU-910(V), Country of Origin: KOREA or Equivalent	set	17,526.28
12.10.27	Supplying and Fixing of Column Speaker with the features of Rated Power: 20W, Impedance: 500Ω/1kΩ, Frequency Response: 220Hz ~ 15kHz, SPL (1W/m): 90dB, Enclosure Material: Aluminum. Brand Name: INTER-M, Model No.: CU-920(V), Country of Origin: KOREA or Equivalent	set	18,808.57

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12.10.28	Supplying and Fixing of Column Speaker with the features of Rated Power: 30W, Impedance: 330Ω/660Ω, Frequency Response: 220Hz ~ 15kHz, SPL (1W/m): 91dB. Brand Name: INTER-M, Model No.: CU-930(V), Country of Origin: KOREA or Equivalent	set	17,526.28
12.10.29	Supplying and Fixing of Ceiling Speaker with the features of Rated Power : 6W, Impedance COM : 1.7kΩ, 4kΩ, 8kΩ, Frequency Response: 150Hz-15kHz, SPL (1W/1M) : 92dB. Brand Name: INTER-M, Model No.: CS-610, Country of Origin: KOREA or Equivalent	set	12,781.82
12.10.30	Supplying and Fixing of Powered Mixer Amplifier with the features of 2x 250W RMS power output (4Ω), 16-bit 48kHz USB Interface, 6 phantom powered XLR mic inputs, ¼" jack and RCA line level inputs, Peak indicator for each channel, 3 band EQ on every mono channel, 2 band EQ on the stereo channel, 1 Monitor send, Pan/Balance controls, Built in digital FX. Brand Name: WHARFEDALE PRO, Model No.: PMX-710, Country of Origin: UK or Equivalent	set	160,501.14
12.10.31	Supplying of Digital loudspeaker management with the features of Digital Sound Processing, 6-band parametric EQ with low/high shelf Limiter, Crossover / Filter, Independent processing for each output channel, Ultra-fast workflow, 30 Save slots, Factory presets with popular Wharfedale Pro models, USB connection for editing settings, RS485 connection for remote control up to 1500m Brand Name: WHARFEDALE PRO, Model No.: VERSADRIVE SC-26, Country of Origin: UK or Equivalent	set	160,501.14
12.10.32	Supplying and Fixing of Crossovers with the features of Connectors: 1/4" TRS, Input Impedance: Balanced 20KW, unbalanced 10KW, Maxium Input Level: +20dBu, Output Impedance: Balanced/Unbalanced 100 ohms, Maxium Output Level: +20dBu, Subwoofer Output: 1/4" TRS. Brand Name: WHARFEDALE PRO, Model No.: XO-206, Country of Origin: UK or Equivalent	set	70,741.14
12.10.33	Supply and Fixing of Audio Multi Effect Processor with features of 71 breathtaking new algorithms true RSM (Real Sound Modeling) stereo and 3D effects. Wave-adaptive virtual Room reverb algorithms for natural reverb and delay. Awesome modulation, dynamic, psychoacoustic and EQ algorithms. Authentic amp simulation, distortion and special effects. Model No.: FX2000, Brand Name: BEHRINGER, Country of Origin: GERMANY or Equivalent	set	57,918.28
12.10.35	Supplying, Fitting and Fixing of Wireless Microphones (Hand Held Type) With the Features of Receiver: RF frequency range 600MHz-960MHz, Ocillation Type: PLL, Channel 16, Frequency Response: 50Hz-18KHz. Transmitter: Microphone with UHF PLL Transmitter, 16 secectable channels, Frequency band: 782MHz-806MHz. Brand Name: FBT, Model No.: FBTAC 8001D & FBTAC Mh 750, Country of Origin: ITALY or Equivalent	set	60,446.95
12.10.36	Supplying and Fixing of Wireless microphone (Clip Type) with the features of Receiver: RF frequency range 600MHz-960MHz, Ocillation Type: PLL, Channel 16, Frequency Response: 50Hz-18KHz. Body Pack Transmitter: 16 secectable channels, Frequency band: 782MHz-806MHz. Clip Microphone: Lavalier unidirectional cardioid condenser microphone, 4p mini XLR connector, frequency response 100-15,000Hz. Brand Name: FBT, Model No.: FBTAC 8001D, FBTAC PT 850B & FBTAC CM 501, Country of Origin: ITALY or Equivalent	set	57,241.23
12.10.37	Supply and Fixing of Control Unit for Conference System : Control Unit with Digital Display. Fault protected • Configuration and system monitoring via 2x16 backlit LCD and 5-button menu system. System status "Alert" LED • Front panel monitor loudspeaker and level control. Tri-colour LED for output level indication • One Auxiliary Input XLR - balanced and configurable for mic/line level. With level control and tri-colour LED level indicator. Optional chairman's Priority feature. This option and the gain is set via DIL switches on rear panel – no need to open unit to set jumpers • Loudspeaker Input XLR – balanced, line level. Int/Ext switching via rear panel DIL switch. A compressor is incorporated in the input stage, primarily to protect the system from power overload under extreme continuous signal conditions – e.g. feedback • One Auxiliary Output XLR – balanced, line level • PA Output XLR – balanced, line level. With associated level control and tri-colour LED indicator. Unit can accept frequency shifter module (enabled via the menu system) Brand Name: AUDITEL, Model No.: DSC50, Country of Origin: UK or Equivalent	set	137,420.00

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1	2	3	4
12.10.38	Supply and Fixing of Table Top Chairnam Unit: Table Top Chairnam Unit with microphone & built-in loudspeaker. • 3-way (YAN) voting with LED indicators. • Request to speak switch. Status is shown via a bi-colour LED. • Voice-Held (Self-Cancelling) option. • Compact unit design using surface mount technology (SMT). • Luminant flashes to advise speaker to "wind up". • Chairman units have additional priority/override facility. • Unit IDs stored in non-volatile memory. • Gain adjusted on an individual basis using the voting buttons to increase/decrease gain. Gain levels are stored in non-volatile memory. Gain can also be "tweaked" on the fly during meetings remotely from the computer. • Flush mounted, remote fixing and seat arm versions of the delegate and chairman units are also available. MICROPHONEType: Uni-Directional, CardioidSensitivity: -63dB ±3dB Rear Attenuation: -20dB @ 1kHzConstruction: Semi Flexible CompositeStemHigh Visibility Ring Luminant LOUDSPEAKERFrequency Response: 150Hz-17kHz (-10dB)Power Handling: 3000mWSPL: 82dB/W/m @ 1kHz Brand Name: AUDITEL, Model No.: CDU103P, Country of Origin: UK or Equivalent	set	38,042.85
12.10.39	Supply and Fixing Table Top Delegate Unit: Table Top Delegate Unit with microphone & built-in loudspeaker. Microphone, with ring luminant, and loudspeaker • 3-way (YAN) voting with LED indicators. • Request to speak switch. Status is shown via a bi-colour LED. • Voice-Held (Self-Cancelling) option. • Compact unit design using surface mount technology (SMT). • Luminant flashes to advise speaker to "wind up". • Chairman units have additional priority/override facility. • Unit IDs stored in non-volatile memory. • Gain adjusted on an individual basis using the voting buttons to increase/decrease gain. Gain levels are stored in non-volatile memory. Gain can also be "tweaked" on the fly during meetings remotely from the computer. • Flush mounted, remote fixing and seat arm versions of the delegate and chairman units are also available. MICROPHONEType: Uni-Directional, CardioidSensitivity: -63dB ±3dB Rear Attenuation: -20dB @ 1kHzConstruction: Semi Flexible CompositeStemHigh Visibility Ring Luminant LOUDSPEAKERFrequency Response: 150Hz-17kHz (-10dB)Power Handling: 3000mWSPL: 82dB/W/m @ 1kHz Brand Name: AUDITEL, Model No.: DDU103P, Country of Origin: UK or Equivalent	set	38,299.31
12.11	STAGE/AUDITORIUM LIGHTING :		
12.11.01	Projector : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Multi media Projector. Brand Name: HITACHI/ SONY/JVC etc or Equivalent	each	128,246.52
12.11.02	"Profile Spot Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Profile Spot Light 1000w with POWER SUPPLY: LAMP: 230V, 50 / 60Hz. CP70 1000W. Socket Gx 9. 5. Life 400 hours (manufacturers rating). OPTICS: High efficiency aluminium reflector. Plano convex zoom lenses. Typical throw distance form 2.5 to 10m. ZOOM:Beam angle variable between 20° and 40°. BEAM SHAPERS: Steel shutter blades. IRIS: Optional diaphragm diam. 55mm to order. COLOR FRAME: With spring clip for easy filter change. COOLING:Construction assisted convection cooling. HOUSING: Metal parts have epoxy powder paint finish. Easy access to lamp and main components. CONTROL: The projector may be mounted titled at +50° / -45° from the horizontal axis. Maximum ambient temperature 35°C.Brand Name: FAL, Model No.: PF1230, Country of Origin: ITALY"	each	67,991.66
12.11.03	"FR & PC Spot Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of FR & PC Spot Light 1000w with the features of POWER SUPPLY: 230V, 50/60Hz, POWER:CONSUMPTION: 1000W, LAMP: CP70 (Philips). Colour temperature 25000K, Socket GX9.5. Life 400 hours (manufactures rating), COOLING: Natural convection, HOUSING: Extruded aluminium profile and steel plate, Metal parts have epoxy powder paint finish, Easy access to lamp and main components, CONTROL: The projector may be mounted titled at +90°/-45°from the horizontal axis. Maximum ambient temperature 40OC.Brand Name: FAL, Model No.: PF5045 &PF5047, Country of Origin: ITALY"	each	66,709.38
12.11.04	"FR & PC Spot Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of FR & PC Spot Light 500w with the features of POWER SUPPLY: 230V, 50/60Hz, POWER:CONSUMPTION: 500W, LAMP: T/25 (Philips). Colour temperature 3000K, Socket GY9.5. Life 600 hours (manufactures rating), COOLING: Natural convection, HOUSING: Extruded aluminium profile and steel plate. Metal parts have epoxy powder paint finish, Easy access to lamp and main components, CONTROL: The projector may be mounted titled at +90°/-45°from the horizontal axis. Maximum ambient temperature 40OC.Brand Name: FAL, Model No.: PF5041 &PF5043, Country of Origin: ITALY"	each	57,733.38

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Item Code	Brief Description of Item	Unit	Rate
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12.11.05	Flood Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Flood light with 500W tungsten halogen lamp, symmetric reflector of high purity aluminium halogen electric cable with colour filter frame etc.	each	17,982.52
12.11.06	"Cyclorama Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Cyclorama light with 1000W tungsten halogen lamp, symmetric reflector of high purity aluminium halogen electric cable with colour filter frame etc. LOCAL MADE"	each	24,393.95
12.11.07	"Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Par can 64 with the features of long version, suitable for Par 64 lamp, made entirely in aluminium. Supplied with silicon cable, GX 16 ceramic lampholder, Lamp PAR 64 1000W.Brand Name: ARENA LUCI, Model No.:TH2009, Country of Origin: ITALY"	set	16,059.09
12.11.08	Scanner Light : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Scanner light with as per following specification: Bright and compact LED scanner packed with features to enhance any show, Increase design flexibility and effects with 7 gobos plus 7 separate, saturated colors, Minimize programming time using built-in movement macros and move-in-black features, Increase effects with electronic dimming and strobe features, Continuous shows with individual reset of pan/tilt, color and gobos, Achieve flicker-free video operation with high-frequency LED dimming, Increase mounting options with the included double-bracket yoke that doubles as a floor stand, Sound-activated programs dance to the beat of the music, DMX Channels: 5 or 8, DMX Connectors: 3-pin, Pan and Tilt: 180°/90°, Colors: 7 + white, split colors, continuous scroll at variable speeds, Gobos: 7 + open, continuous scroll at variable speeds, Light Source: 1 (white) 15W (1A) LED 50,000hrs, Strobe Rate: 0 - 20Hz, Beam Angle: 15°, Illuminance: 1,577 lux @ 2m, Power Linking: 11 units @ 120V; 21 units @ 230V, Input Voltage: Auto-ranging 100 - 240VAC 50/60Hz, Power and Current: 80W, 0.7A @ 120V 60Hz, Power and Current: 86W, 0.4A @ 230V 50HzModel No.:Intimidator™ Scan LED 200, Brand Name: CHAUVET, Country of Origin: USA.	each	71,838.52
12.11.09	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Zoom LED With the features of DMX Channel: 2, Light Source: 1 LED (White) 15W (4 A), 50,000 hours, Zoom Angle: 180 to 260°, gobo Size: 28.6mm outside, 26mm image, 1mm max thickness, Illuminance: 1,027 lux @ 2m, Input voltage: 100 to 240 VAC, 50/60 Hz (auto-ranging).Model No.: Gobo zoom LED 2.0, Brand Name: CHAUVET, Country of Origin: USA.	each	70,556.23
12.11.10	12 Channel Dimmer Rack : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 12 Channel Dimmer Rack with the features of Simple to set up and use for Theatres or Television studios. It is fitted with an isolated DMX input and a 0-10 volts analogue control input. The wide mains supply voltage and frequency range allows to work in any country. With a wide range of features at an affordable price, the Rackpack is ideal for touring or permanent installation (with effective connection).Easy to use menu system, Large 4 line LCD display, Isolated DMX input, 1/10th standard RS-485 load, Programmable DMX start address, 0 to 10 volt analogue control, High immunity to mains interference, Load protection by MCBs.Brand Name: THEATRE LIGHT NZ, Model No.: RACK PACK II (TLRP1220), Country of Origin: NEWZEALAND	set	211,607.66
12.11.11	Light Controller (24 Channel) : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of CONTROL EQUIPMENT with the features of Light Controller (24 Channel) 12/24 chn modelsEasy to learn, simple to useRecordable up and down fade timesMultiple independent chase speedsLarge memory capacity4 pages of scenemasters with page overlayRecord Beat function for synchronizing chase speedsSD Card back up of all cue data VGA output for live monitoring of desk and on-screen Help""Brand Name: THEATRE LIGHT NZ, Model No.:TLSC24/VGA, Country of Origin: NEWZEALAND	set	224,430.52
12.11.12	Light Batten:Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of light batten to be suspended from ceiling in/c. supplying and fixing 13A sockets in each batten complete.Box frame : Made of Aluminium sheet 18 SWG box frame size 16"" long, 5"" breadth 2"" depth.Supporting horizontal bars made of 11 dia 16' length G.I pipe on top and bottoms of the box frame to be linked with box frame by 6""x1'x3/20' flat iron bar at 4' interval welding finishing etc. complete.Supplying & fixing 13A (M.K. brand England) 8-10 Nos. socket in each frame.Hanging the light batten with ceiling by 4 Nos. of 1/2"" 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.	set	20,547.09
12.11.13	Color Gelatin : Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of color gelatin filter of size 24"x20" of various color. Country of origin : USA/UK/Japan/Australia/Italy or equivalent EU countries.	each	1,056.35

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12.11.14	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1,000W Quartz halogen spare lamp (pin type lamp) in conformity to specified codes & specification of International standard. Country of origin : USA/UK/Japan/Australia/Italy or equivalent EU countries.	each	4,903.20
12.11.15	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 500W Quartz halogen spare lamp (pin type lamp) in conformity to specified codes & specification of International standard. Country of origin : USA/UK/Japan/Australia/Italy or equivalent EU countries.	each	4,133.83
12.11.16	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1000W tungsten halogen spare lamp (halogen lamp) in conformity to specified codes & specification of International standard. Country of origin : USA/UK/Japan/Australia/Italy or equivalent EU countries.	each	1,056.35
12.11.17	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of 1000W tungsten halogen spare lamp (halogen lamp) in conformity to specified codes & specification of International standard. Country of origin : USA/UK/Japan/Australia/Italy or equivalent EU countries.	each	799.89
12.11.18	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of three core 3x40/.0076 (Flexible) 250/440v cable complete with all required accessories i/c. plastic channel and PVC pipes etc. all complete.	m	112.58
12.11.19	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Fogger machine With the features of DMX Interface, LCD Display, 3000W Heater, Output- 40000cuft, Tank Capacity 6ltr, Fluid Consumption 5min/Liter. Model No.: EF1744, Brand Name: Arena Luci, Country of Origin: ITALY	set	12,853.38
12.11.20	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of Moon Flower Light With the features of Light Source: 57 LEDs (17 red, 24 green, 16 blue) 0.25 W (20ma), 50,000 hours, Input voltage: 120 to 230 VAC, 50/60 Hz (Switchable). Model No.: LX-10, Brand Name: CHAUVET, Country of Origin: USA.	set	57,733.38
12.11.21	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of projection screen. Foreign Made	esch	128,259.09
12.11.22	Supplying, assembling, fitting, fixing, installation (with effective connection) testing & Commissioning of VOLTAGE STABILIZER with the features of 5 KVA, 220V/230V, High accuracy and ultra fast response, Low integral impedance, unaffected by frequency variations for sound equipment (Manufactured by grameen - betek Ltd/ Navana electronic Ltd). LOCAL MADE	each	17,952.00
12.11.23	Supplying and fixing of LED PAR 64 with the features of Power Range: 100-240 V, 50/60 Hz, Consumption: 30W, Light source: LED. Brand Name: CHAUVET, Model No.: SLIM PAR 64 RGBA, Country of Origin: USA or equivalent	set	64,293.81
12.11.24	Supplying and fixing of DMX Controller with the features of POWER SUPPLY 230Vac 50Hz (9Vdc to 12Vdc) DMX512/1990 standard, 192 DMX channels. Brand Name: ARENA LUCI, Model No.: CO690, Country of Origin: ITALY or equivalent	set	109,209.71
12.12	CCTV SURVILLANCE SYSTEM :		

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Item Code	Brief Description of Item	Unit	Rate
1	2	3	4
12.12.01	Supplying, assembling, fitting, fixing & installation (with effective connection) of DVR 8/16 channel real time Pentaplex Digital video Recorder Operation: Pentaplex Performance (Simultaneous live Display) Video In: connection Bnc, 1.0 Vpp Composite 75 Ohm Balanced Loop Through Bnc , 1.0 Vpp composite 75 Ohm unbalanced, Audio In Channels: 4-Line level Unbalanced Including Accessories Dvd writer, usb mouse, Ir remote. Main Displays: Bnc 1.0 Vpp Composite 75 Ohm, Imba; Amcndf (Videp Pm: U) Vga 15 Pin D-sub 1024*768 @ 60 Hz (With Gui) Screen Display Model:4,9,16 -user defined channel for sequence adjustable dwell time,user defined sequences. Spots display: channels 4 fully Programmable Connection Bnc, 1.0 Vpp 1.0 Vpp composite 75 Ohm unbalanced, Display mode full screen sequence, adjustable Dwell Time Output: 16, High (+5v) or low (0v) selectable, common ground. Recording: Video codec Mpeg-4 Resolution options for each channel Cif (352*288) 2 Cif (704) pre-event recording 5 seconds max. Recording Modes Continuous / motion detection/ alarm/ schedule configurable recording time limits weekly / daily motion detection 16*16 selectable grid with 10 levels of covert recording yes, selectable by channel camera title english and numeral. Play Back: Search Method calendar / timeline, event log, sequence, split screen display modes 1,4,16 audio synchronization yes, any framerate. Archiving: storage backup to cd/dvd media via dvd Rw, Usb format water marked avi, jpeg. Dst YES: RS-485 multi protocol, baud rate and speed control for each. Network: Connection Rj10/100 Ethernet 2 way network audio yes bandwidth management yes remote client software storage 4* Hdd Mix operating temperature 0 c to 45 c Model & sample to be approved by Engineer-in-charge.	CCTV :	
12.12.01.1	For 8-Channel	set	256,487.66
12.12.01.2	For 16-Channel	set	359,070.52
12.12.02	IR Camera :Supplying, assembling, fitting, fixing & installation (with effective connection) of of 1/3""2.8-12mm F1.3 Varifocal, DC Auto Iris (Cs Mount) Day/ Night IR, Varifocal IR(Infra red) DC auto Iris lenses Are designed for Day/Night cameras. They eliminate focus shift in night mode, especially in the presence of IR lighting. All lenses are Cs-mount, S comprised of all glass optics, come with locking set screws and a durable metal Barrel.Suitable for use in Bangladesh.Complete with required accessories and in conformity to specified codes and specification of international standards & CE/UL/CSA certified.Origin : USA/EU/Japan or equivalent.	each	11,571.09
12.12.03	21" Color LCD/LED TV Monitor: Supplying, assembling, fitting, fixing & installation (with effective connection) of 21" tv monitor, Foreign made Complete with required accessories & in conformity to Model & sample to be approved by the Engineer-in-charge.	each	25,663.67

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12.12.04	32" Color LCD/LED TV Monitor:Supplying, assembling, fitting, fixing & installation (with effective connection) of 32" Color LCD/LED TV Monitor complete with required accessories and in conformity to specified codes & specification of international standards. Model & sample to be approved by the competent authority.Screen size : 32" (inch)Type : LCD/LEDTV System : Analog, B/G, D/K,I,MCOLOR System : NTSC 3.58, NTSC 4.43, PAL, SECAMVideo Signal : 480/60i, 480/60p, 576/50i, 576/50p, 720/50p, 720/60p, 1080/50i, 1080/60i, 1080/24p (HDMITM Only), 1080/50p (HDMITM /Component), 1080/60p (HDMITM /Component)Display Resolution : WXGAHDMITM /Audio in : 2 (2Rear)USB 2.0 : 1 (SIDE)Composite Video Inputs : 2 (1 Rear Hybrid w/Component)RF Connection Inputs : 1 (Rear)Analog Audio Inputs : 1 (Rear Hybrid w/PC)Audio Out : 1 (Rear / Hybrid w HP)Headphone Out : 1 (Rear / Hybrid w /Audio Out)Control for HTML (HDMI CEC) : YesUSB Play : Yes (Video, Music, Photo) (USB Viewer supports FAT16, FAT32 and exFAT file system)Power Consumption : 55WStandby Power consumption : 0.5W	each	46,162.29
12.12.05	8CH POE NVR Supplying, delivering, fitting, fixing, installation (with effective connection) testing & commissioning of 8CH POE NVR having Video Input: 8 LAN ports, Video Output: HDMI output, Video Output Resolution: 1920 x 1080, HDD Storage: Two 10TB HDDs, eSATA (support up to 4-bay disk array with RAID 0 and 1), USB Ports: Two on the front panel; one for video backup to USB flash drive and another for NVR control via a USB mouse, IR Remote Control, Ethernet: 1~8 port, 10/100Mbps with POE, Internet (WAN) port, 1000Mbps, Video Compression Format: H.264, Audio Compression Format: G711, Local / Remote Display Mode: 8CH, Local / Remote Playback Mode: 4CH, Single Channel Playback, Recording Mode: Manual / Event / Alarm / Schedule, Record Streaming: Dual, Recording Throughput: Up to 120 IPS @ 2048 x 1536, 48 Mbps; Up to 120 IPS @ 1920 x 1080, 48Mbps;Up to 240 IPS @ 1080 x 720, 48Mbps,Pre-alarm Recording, Quick Search: Time/Event, Event Notification: Push Video/Push Status /Message Mail / Video Mail, Security: 4 user access levels with password, Remote Access: (1) Internet Explorer on Windows operating system (2) CMS Lite, 32CH CMS software for Windows operating system (3) Eagle Eyes on iOS & Android mobile devices, Power Source (±10%): DC 48V / 2.5A, Power Consumption (±10%): 12.6W (without a hard disk and POE IP camera connected); PoE (IEEE802.3af), Max Power per PoE Port: 30W, Total Max PoE Power Out: 240W, Operating Temperature: 10°C~40°C (50°F~104°F), Operating Humidity: 10% ~ 85%, Max. Online User: 20, Multicast, EaZy Networking including all accessories to complete and direction of the Engineer-in-charge. Country of origin: USA, EU or Taiwan	each	21,446.23
12.12.06	16CH. NVR (8 PORT POE): Supplying, delivering, fitting, fixing, installation (with effective connection) testing & commissioning of 16CH NVR (8 PORT POE) with 8 port POE Switch having Video Input 8 LAN ports with PoE + 1 LAN port, Video Output(HDMI (4K2K), VGA (Spot Monitor Supported), Composite (Spot Monitor Supported)), Video Output Resolution: 16CH Mode: 1080P; 9CH Mode: 4K2K, Audio1 in (mic in) / 1 out, Alarm I/O: 4 in / 1 out, RS485, HDD Storage, Either two 14TB SATA HDD installed in the recorder or one 14TB SATA HDD installed and a disk array connected to the recorder, via the eSATA interface, USB Port, Expandable with a SATA to eSATA cable, Ethernet: POE port, 10/100 Mbps with PoE x 8 (IEEE802.3af), LAN port; 10/100 Mbps x, Internet (WAN) port, 1000 Mbps x 1, Video Compression Format: H.265, Audio Compression Format: G711, Local / Remote Display Mode:16CH, Local / Remote Playback Mode: 16CH, Local Single Channel Playback, Recording Mode: Manual / Event / Alarm / Schedule, Record Streaming: Dual, Recording Resolution: 480 IPS @ 3264 x 2448, Recording Throughput: 80Mbps, Pre-alarm Recording, Quick Search: Time / Event, Event Notification: Push Status / Video Mail / Message Mail, Security: Multiple user access levels with password, Multicast, Seamless Recording, EaZy Networking, Spot Monitor Setup:Call Monitor / Event Monitor / Live Monitor (VGA & Composite), Alarm Scenario Setup, Alarm Pop-up & Preview, Free DDNS Service, Protocols: (DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP,RTSP, RTCP, IPv4, Bonjour, UPnP, DNS,UDP,IGMP, QoS, SNMP), Max. Online User: 20, Remote Access: (1) Web browser: Windows Edge, Internet Explorer, Google Chrome & Safari;(2) PC program: CMS Lite, 32CH CMS software for Windows OS (3) Mobile app: Eagle Eyes on iOS & Android mobile devices, Power Source (±10%): DC48V / 2.5A, PoE IEEE802.3af, Operating Temperature: 10°C ~ 40°C (50°F~104°F), Operating Humidity:10% ~ 85%, including all accessories to complete and direction of the Engineer-in-charge. Optional Peripherals HDMI Matrix (HDM02) / USB Joystick (AVX102) / SATA to eSATA cable (PWSC07F120200) Country of origin: USA, EU or Taiwan.	each	44,527.37

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12.12.07	2MP IR Bullet IP Camera Supplying, delivering, fitting, fixing, installation (with effective connection) testing & commissioning of 2MP IR Bullet IP Camera having 1/2.7" CMOS image sensor, Min Illumination 0.1 Lux / F1.5, 0 Lux (IR LED ON), Shutter Speed 1/2 to 1/10,000 sec, S/N Ratio More than 48dB (AGC off), Lens f3.8mm / F1.5, Viewing Angle 77° (Horizontal) / 45° (Vertical) / 88° (Diagonal), IR LED 2 Units, IR Effective Distance Up to 25 meters, with IR Shift, White Balance ATW, AGC Auto, IRIS Mode AES, Sharpness, DWDR, POE(IEEE 802.3af), Weather-proof IP66, Operating Temperature -40°C ~ 50°C, Operating Humidity 90 or less relative humidity, Power Source (±10%) 12V / 1A, Current Consumption (±10%) 150mA (IR OFF) / 400mA (IR ON) Power Consumption (±10%), PoE & PoN: 6W; DC adapter: 4.8W, Network Compression: H.264 (Main Profile) / MJPEG, Video Resolution: 1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240, Frame Rate:30fps, Multiple Video Streaming: 2 (H.264, MJPEG), LAN Speed 10/100 Based-T Ethernet, Motion Detection, RTC (real-time clock), Supported Protocols (DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, Bonjour, DNS, UDP, IGMP, QoS, SNMP), Security systems are (Multiple user access levels with password, IP address filtering, Digest authentication), Remote Access type (Internet Explorer on Windows operating system, CMS Lite, 32CH CMS software for Windows operating system, Eagle Eyes on iOS & Android mobile devices including all accessories to complete and direction of the Engineer-in-charge. Country of origin: USA, EU or Taiwan.	each	8,415.00
12.12.08	2MP IR Dome IP Camera: Supplying, delivering, fitting, fixing, installation (with effective connection) testing & commissioning of 2MP IR Dome IP Camera Image Sensor 1/2.7" CMOS image sensor, Min Illumination 0.1 Lux / F1.5, 0 Lux (IR LED ON), Shutter Speed 1/2 to 1/10,000 sec, S/N Ratio More than 48dB (AGC off), Lens f3.8mm / F1.5, Viewing Angle 77° (Horizontal) / 45° (Vertical) / 88° (Diagonal), IR LED 2 Units, IR Effective Distance Up to 25 meters, IR Shift, White Balance ATW, AGC Auto, IRIS Mode AES, Sharpness, DWDR, POE(IEEE 802.3af), Weather-proof IP66, Operating Temperature -40°C ~ 50°C, Operating Humidity 90 or less relative humidity, Power Source (±10%) 12V / 1A, Current Consumption (±10%), 150mA (IR OFF) / 400mA (IR ON), Power Consumption (±10%), PoE & PoN: 6W; DC adapter: 4.8W, Mobile Surveillance iOS & Android mobile devices, Motion Detection, Event Notification FTP / Email / SMS, RTC (real-time clock), Digital Pan / Tilt / Zoom, Network Compression H.264 (Main Profile) / MJPEG, Video Resolution 1920 x 1080 / 1280 x 720 / 720 x 480 / 352 x 240, Frame Rate 30fps, Multiple Video Streaming 2 (H.264, MJPEG), LAN Speed 10/100 Based-T Ethernet, Supported Protocols (DDNS, PPPoE, DHCP, NTP, SNTP, TCP/IP, ICMP, SMTP, FTP, HTTP, RTP, RTSP, RTCP, IPv4, Bonjour, DNS, UDP, IGMP, QoS, SNMP), ONVIF Compatible, Number of Online Users 10, Security system (Multiple user access levels with password, IP address filtering, Digest authentication, Remote Access type (Internet Explorer on Windows operating system, CMS Lite, 32CH CMS software for Windows operating system, Eagle Eyes on iOS & Android mobile devices including all accessories to complete and direction of the Engineer-in-charge. Country of origin: USA, EU or Taiwan.	each	8,158.54
12.13	PABX SYSTEM :		
12.13.01	Supply ,installation (with effective connection), testing & commissioning of 8+32 line (Extension Capacity 120 line) digital PABXSystem. Basic Unit: 8+32 line PABX system hardware: (CPU Card, TNG Card, power supply unit & casing) Software: system operating software & billing software.Features :Direct inward station access (DISA) built in billing system automatic Fax/ phone switching key telephone interface day/night service , total call report by extension , individual call report by extension, total call report by CO, individual call. 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.MODEL & sample to be approved by the competent authority.	set	166,715.09
12.13.02	Supplying, assembling, fitting, fixing & installation (with effective connection) of Standard Master Telephone Set i/c 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. A) For use in 8+32 line system	each	12,181.71
12.13.03	Supply installation (with effective connection) testing & commissioning of Single line Telephone set with provision volume up + down, Redial, Flash Etc. Complete (for normal User). 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.	each	1,218.17

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Item Code	Brief Description of Item	Unit	Rate
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12.13.04	Supply installation (with effective connection) testing & commissioning of Single line Telephone set with provision volume up + down, Redial, Flash Etc. i/c Display with CID system Complete. (for Executives). 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.	each	2,179.89
12.13.05	Networking System		
12.13.05.1	Supply, installation & Testing 24-port Cat 6 patch panels for connection to Gigabit switch or equivalent devices, backward compatible with Cat. 3, 4, 5, 5e, and 6 cabling; Brand- Panduit/Systimax/D-Link/Digi- Link/Solitone or equivalent. Country of origin: USA / Europe or other licensed manufacturing units located globally. Model and sample to be approved by the E-I-C.	each	11,123.83
12.13.05.2	Supply & Installation of 1U Cable Manager; Brand: D-Link/Digilink/solitone or Equivalent approved by Engineer-in-charge.	each	2,442.75
12.13.05.3	6U Wall Cabinet: Supply & Installation of 6U Wall Cabinet, Size:(540x450x327 mm), Tempered glass door with accessories Model: Toten or Equivalent Country of origin: China/ USA / Europe or other licensed manufacturing units located globally and sample to be approved by the E-I-C..	each	13,239.60
12.13.05.4	9U wall cabinet: Supply, Installation of 9U wall mounted network cabinet size :(540x600x460mm) with tempered glass door with other accessories. Model: Toten or equivalent. Country of origin: China/ USA / Europe or other licensed manufacturing units located globally and sample to be approved by the E-I-C.	each	16,317.09
12.13.05.5	42U Cabinet: Supply & Installation of 42U Cabinet,Size:(600x1000x2072 mm), High-density vented front door, 2 Fixed Trays , 4 Nos. Cooling Fan , 6- Way Power Distribution Unit (PDU); Brand: Toten or its Equivalent approved by Engineer-in-charge. Country of Origin: China/ USA / Europe or other licensed manufacturing units located globally and sample to be approved by the E-I-C.	each	74,019.94
12.13.05.6	Core switch (Gigabit port): Supply, Installation & testing of Core switch (Gigabit port) Model: CISCO (WS-C2960X-24TS-L) or equivalent; Country of origin: USA / Europe or other licensed manufacturing units located globally and sample to be approved by the E-I-C.	each	97,614.00
12.13.05.7	Supply, Installation & testing of 24 port Managed Switch, Model CISCO (SG300-28PP) or equivalent; 24-port 10/100/1000 with Gigabit Uplinks port; Country of origin: USA / Europe or other licensed manufacturing units located globally and sample to be approved by the E-I-C.	each	50,938.80
12.14	RENEWABLE ENERGY : SOLAR SYSTEM		
12.14.01	Solar Panel Supply,fitting fixing and testing of 200 - 250 Wp 12V mono-Crystalline Solar panel as approved by Engineer in charge. Solar PV Module/panel shall be in conformity with the requirement of IEC 61215, IEC 61730 standards. Certificate issued by the international recognized authorities such as UL/ULC/VDC/TUV/DNV or equivalent certifying body according to the above requirement shall have to be submitted by the bidder Necessary Catalogue, Operation & maintenance manual will be supplied by the contractor Cell/Panel Brand : BOSCH/Qcell/Solarworld/Sunway/Suntech; Origin : USA/EU Warranty : At least 20 yrs	Wp	94.63
12.14.02	Solar Inverter : Supply, fitting fixing & testing the solar inverter, 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. The inverter shall be tested and certified by UL/ULC/VDC/VDE/ETL in accordance with the requirement of relevant IEC standards and shall have authentication to use CE, TUV and UL/ULC logo. Solar Inverter:Of following watt Pure Sine Wave, Efficiency 94% (minimum) Brand : Outback/Extruder/Deutsche Power/Victor (Netherlands) Origin : USA/EU Warranty : At least 03 yrs.		

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Item Code	Brief Description of Item	Unit	Rate
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12.14.02.01	1000 Watt 24V/48V	each	32,362.33
12.14.02.02	1500 Watt 24V/48V	each	38,773.76
12.14.02.03	2000 Watt 24V/48V	each	51,596.61
12.14.02.04	2500 Watt 24V/48V	each	64,419.47
12.14.03	Solar Battery with casing : Supply, installation (with effective connection), testing & commissioning of Solar battery with nominal voltage, 12V, 130AH or above @10HR or equivalent Deep Cycle heavy duty industrial type Lead Acid battery, positive plate : Tubular or solid thicker Plate, negative plate: Pasted float, Electrolyte Dilute Sulfuric Acid, specially suitable for Solar system. The term "Solar" must be engraved at the body of Battery. Battery, 12V, 130AH Battery rack/cabinet of sufficient size Brand :Hamko/Volvo/Rahim Afroz or equivalent Made in Bangladesh Warranty : At least 05 yrs.	each	23,850.26
12.14.04	Charge Controller: Supply fitting fixing of MPPT charge controller, high accuracy confirming certification by UL/ULC/VDC/VDE/ETL in accordance with the requirement of relevant IEC standards and shall have authentication to use CE, TUV and UL/ULC logo. Necessary catalogue, operation & maintenance manual will be supplied by the bidder. All complete & sample approved by Engineer-in-charge. Brand : SMA/Morning Star/Outback/apollo Origin : USA/Germany Warranty : At least 03 yrs.		
12.14.04.01	Solar Charger:24/48v, 30A	each	43,628.23
12.14.04.02	Solar Charger:24/48v, 45A	each	57,733.38
12.14.04.03	Solar Charger:24/48v, 60A	each	84,661.38
12.14.04.04	Solar Charger:24/48v, 80A	each	89,790.52
12.14.05	Earthing for Solar system : Supply & installation (with effective connection) of 8'-0" Brass or Copper Rod (10mm dia) under 2'-0" from FGL outside school building, Connecting the rod with SDB's earthing bar by 6mm dia copper wire (properly soldering with the rod) through 25 mm dia pvc pipe complete with necessary accessories as per direction of Engineer in charge.	each	13,707.63
12.14.06	"Solar Frame structure With 3mm X 38mm angle with spacing @ 12"" of galvanized iron. Per Wp"	Wp	20.52
12.14.07	Solar installation (with effective connection): installation (with effective connection), testing & commissioning of solar system with cables of required sizes (4mm, 10 mm & 16 mm BYM) etc all complete as per instruction Engineer-in-charge. The one year free maintenance service of the total solar system must be given by the concerned contractor.	Wp	10.26

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12.14.08	Solar Pump (D.C.):Supply, fitting fixing, testing & Commissioning of Submersible Solar pump adequate capacity to lifting water from 150 ft under ground to water tank of 25 ft above from the ground (water lifting capacity at least 1000 ltr/day) compete with motor controller, solar module, cables, GI structure (except boring & GI pipe) in conformity with the requirement of IEC/VDE/BS/JIS or equivalent as per following brand/origin of the materials. Certificate issued by the international recognized authorities such as UL/ULC/VDC/TUV/DNV or equivalent certifying body according to the above requirement shall have to be submitted by the supplier.Necessary Catalogue, Operation & maintenance manual will be supplied from manufacturer by the contractor.Pump : Submersible centrifugal pump, adaptable to work best within 40m lift at 50 degree Celsius, Average flow : 1000 ltr/day at sated head; Non Return ValveCertificate :UL 508, CE, ISO certifiedMotor: Asynchronous brushless DC Motor, Water lubricated, 300W (Rated capacity)Speed-600-3300 rpm, efficiency-92%, Submersion limitation- 250m, No electronic spares are inside the motor; Certificate :UL 1004, Electric Motors CSA C22.2 No.10, CE, ISO certifiedMPPT Motor Controller: -Continuous maximum power point tracking controllers, provide increases PV array output by upto 30%- Float/pressure switch for overflow protection, Remote control-Reverse polarity, Overload & high temperature protection-motor power 0.30KW or higher, 18A (max), 50V (max)-solar operation-MPPT, efficiency-98%-Enclosure Class-IP54, LED indication for different statusCertificate :UL, CE, ISO certified Solar module/ panel: 150W or higher, voltage-12V/ 24V mono / poly crystalline, certificate: IEC61215, CE, TUV, Rhineland or VDE certified Others : Bore probe- External bore probe connected with the controller through separate submersible cable Float Switch-External float switch with pressure sensor connected to the controller with separate cables Standard L.A. & earthing rod, 1.5" dia delivery pipe etc. Brand & Origin of pump : Germany/USA/Japan Pump & Solar Panel will be of same brand Energy Saving Light : 04 nos. with holder and gang switch as required. Cable :NYY/NYY-F/6rm-4rm : 4rm BYA-FRLS type as required & 1-2C-1.5 rm BYM for lights Pump with controller warranty : 2 yrs (at least), Solar module : 25 yrs	each	199,517.25
12.14.09	Solar Battery Gel Type with casing : Supply, installation (with effective connection), testing & commissioning of maintenance free Gel type Solar battery with 2V nominal voltage, heavy duty industrial type, positive plate : Tubular, negative plate: Pasted flat, Electrolyte Dilute Sulfuric Acid, specially suitable for Solar system. This item must includes Battery rack/cabinet of sufficient size. The term "Solar" must be engraved at the body of Battery. Battery,12V,130AH Brand & Origin : European/USA or equivalent Warranty : At least 10 yrs.		
12.14.09.1	Capacity in Ampere Hour : 400 AH	set	35,478.28
12.14.09.2	Capacity in Ampere Hour : 500 AH	set	41,889.71
12.14.09.3	Capacity in Ampere Hour : 800 AH	set	75,870.28
12.14.09.4	Capacity in Ampere Hour : 1000 AH	set	97,669.14

Chapter 13

Mechanical Works

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Item Code	Brief Description of Item	Unit	Rate
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Chapter - 13 : Mechanical Works

13.01	Supplying, fitting, fixing and installation of Element, Air Filter at the specified vehicle conforming to the following specifications including cost of all necessary accessories, their carriages, fuel, lubricant, wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge. The parts shall be genuine and collected from authorised dealer of the Manufacturer.		
13.01.01	For Mitsubishi Double cabin Pick-up, Vehicle model: L200, Engine Model: 4D56.	each	5,314.95
13.01.02	For Mitsubishi Jeep, Vehicle model: Pajero Sports, Engine Model: 4D56.	each	5,314.95
13.01.03	For Toyota Double cabin Pick-up, Vehicle model: Hilux, Engine Model: 2KD.	each	5,577.21
13.01.04	For Toyota Jeep, Vehicle model: Landcruiser Prado GX, Engine Model: 5L.	each	4,265.94
13.01.05	For Toyota Jeep, Vehicle model: Landcruiser Prado TX, Engine Model: 1KD.	each	4,265.94
13.01.06	For Toyota Jeep, Vehicle model: Landcruiser Prado VX, Engine Model: 1HD.	each	5,970.58
13.01.07	For Toyota Microbus, Vehicle model: Hiace, Engine Model: 2TR.	each	5,970.58
13.01.08	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ.	each	3,507.24
13.01.09	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ.	each	3,845.94
13.01.10	For Toyota Car, Vehicle model: Probox DX, Engine Model: 1NZ.	each	3,321.44
13.01.11	For Toyota Car, Vehicle model: Premio F, Engine Model: 1NZ.	each	3,216.93
13.02	Supplying, fitting, fixing and installation of Oil Filter at the specified vehicle conforming to the following specifications including cost of all necessary accessories, their carriages, fuel, lubricant, wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge. The parts shall be genuine and collected from authorised dealer of the Manufacturer.		
13.02.01	For Mitsubishi Double cabin Pick-up, Vehicle model: L200, Engine Model: 4D56.	each	2,299.04
13.02.02	For Mitsubishi Jeep, Vehicle model: Pajero Sports, Engine Model: 4D56.	each	2,299.04
13.02.03	For Toyota Double cabin Pick-up, Vehicle model: Hilux, Engine Model: 2KD.	each	1,905.66
13.02.04	For Toyota Jeep, Vehicle model: Landcruiser Prado GX, Engine Model: 5L.	each	2,036.79
13.02.05	For Toyota Jeep, Vehicle model: Landcruiser Prado TX, Engine Model: 1KD.	each	1,905.66
13.02.06	For Toyota Jeep, Vehicle model: Landcruiser Prado VX, Engine Model: 1HD.	each	4,003.69
13.02.07	For Toyota Microbus, Vehicle model: Hiace, Engine Model: 2TR.	each	2,167.92
13.02.08	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ.	each	1,118.90
13.02.09	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ.	each	1,118.90
13.02.10	For Toyota Car, Vehicle model: Probox DX, Engine Model: 1NZ.	each	1,118.90
13.02.11	For Toyota Car, Vehicle model: Premio F, Engine Model: 1NZ.	each	1,118.90
13.03	Supplying, fitting, fixing and installation of Fuel Filter at the specified vehicle conforming to the following specifications including cost of all necessary accessories, their carriages, fuel, lubricant, wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge. The parts shall be genuine and collected from authorised dealer of the Manufacturer.		
13.03.01	For Mitsubishi Double cabin Pick-up, Vehicle model: L200, Engine Model: 4D56.	each	4,659.32
13.03.02	For Mitsubishi Jeep, Vehicle model: Pajero Sports, Engine Model: 4D56.	each	4,659.32
13.03.03	For Toyota Double cabin Pick-up, Vehicle model: Hilux, Engine Model: 2KD.		
13.03.03.1	For Toyota Double cabin Pick-up, Vehicle model: Hilux, Engine Model: 2KD. Fuel Filter	each	3,348.05
13.03.03.2	For Toyota Double cabin Pick-up, Vehicle model: Hilux, Engine Model: 2KD. Fuel Filter with cap	each	12,526.91

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13.03.04	For Toyota Jeep, Vehicle model: Landcruiser Prado GX, Engine Model: 5L.	each	6,626.22
13.03.05	For Toyota Jeep, Vehicle model: Landcruiser Prado TX, Engine Model: 1KD.	each	7,937.48
13.03.06	For Toyota Jeep, Vehicle model: Landcruiser Prado VX, Engine Model: 1HD.	each	6,626.22
13.03.07	For Toyota Microbus, Vehicle model: Hiace, Engine Model: 2TR.	each	15,149.44
13.03.08	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ.	each	5,970.58
13.03.09	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ.	each	5,970.58
13.03.10	For Toyota Car, Vehicle model: Probox DX, Engine Model: 1NZ.	each	5,970.58
13.03.11	For Toyota Car, Vehicle model: Premio F, Engine Model: 1NZ.	each	5,970.58
13.04	Supplying, fitting, fixing and installation of Spark Plugs at the specified vehicle conforming to the following specifications including cost of all necessary accessories, their carriages, high tension wires/ coils, wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge. The parts shall be genuine and collected from authorised dealer of the Manufacturer.		
13.04.01	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ.		
13.04.01.1	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ. Spark Plugs, Normal	set	1,905.66
13.04.01.2	For Toyota Car, Vehicle model: Corolla G, Engine Model: 1NZ. Spark plugs, Iridium	set	9,248.75
13.04.02	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ.		
13.04.02.1	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ. Spark Plugs, Normal	set	1,905.66
13.04.02.2	For Toyota Car, Vehicle model: Corolla X, Engine Model: 1NZ. Spark plugs, Iridium	set	9,248.75
13.04.03	For Toyota Car, Vehicle model: Probox DX, Engine Model: 1NZ.	set	1,905.66
13.04.04	For Toyota Car, Vehicle model: Premio F, Engine Model: 1NZ.	set	1,905.66
13.05	Supplying standard tyres, country of origin Japan or similar country of Brand: Yokohama/Dunlop/Bridgestone or equivalent, including fitting, fixing and installation at the specified vehicles conforming to the following specifications, including cost of all necessary accessories, their carriages, inflation, wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge.		
13.05.01	Tyre Size: 185/65R14 (radial tyre, tubeless or equivalent)	each	13,943.08
13.05.02	Tyre Size: 185/70R14 (radial tyre, tubeless or equivalent)	each	14,887.19
13.05.03	Tyre Size: 195/70R15C-6 (radial tyre, tubeless ply rating 6 or equivalent)	each	17,116.34
13.05.04	Tyre Size: 215/80R15 (radial tyre, tubeless or equivalent)	each	23,410.41
13.05.05	Tyre Size: 215/80R16 (radial tyre, tubeless or equivalent)	each	24,131.61
13.05.06	Tyre Size: 205/80R16 (radial tyre, tubeless or equivalent)	each	26,282.09
13.05.07	Tyre Size: 265/65R17 (radial tyre, tubeless or equivalent)	each	31,802.51
13.05.08	Tyre Size: 265/70R16 (radial tyre, tubeless or equivalent)	each	27,737.59
13.06	Supplying standard Battery of brand: Lucas/ Rangs Power/ Hamko or equivalent, including fitting, fixing and installation at specified vehicle conforming to the following specifications, including cost of all necessary accessories, their carriages, terminals, cable and clamps, charging and wages of labour, technicians and incidental charges etc. including testing and commissioning all complete, approved and accepted by the Engineer-in-Charge. Minimum replacement warranty period of Batteries shall be 12 months.		
13.06.01	Battery Type: NS60/L/S (Volt: 12, Plate/cell: 13, AHC@20 hr: 45.)	each	9,196.30
13.06.02	Battery Type: NX120-7/L, (Volt: 12, Plate/cell: 17, AHC@20 hr: 80).	each	15,490.37
13.06.03	Battery Type: N100, (Volt: 12, Plate/cell: 17, AHC@20 hr:100.)	each	12,592.47

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13.06.04	Battery Type: N100Z, (Volt: 12, Plate/cell: 19, AHC@20 hr:105).	each	13,903.74

Chapter 14

Environmental and Occupational Safety Works

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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
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

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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
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

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1	2	3	4

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

Appendix 1

Basic Rates of Material,
Labour and Equipment Rental

Basic Rates of Materials, Labour and Equipment Rental

Schedule of Rates, LGED, October 2019

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1	Door Hasp bolt Stainless Steel 250mm long and 16mm dia	each	220.00	33	100mm thick Uni-Block 45MPa, Colour-Red/Black/any other Suitable Colour	each	36.00
2	Handle Door Lock and Key high quality	each	3,500.00	34	Slim Panel Light-4ft (36 Watt-LED)	each	800.00
3	Safety Net	sqm	30.00	35	12W LED Panel Light	each	745.00
4	Roof Tiles of 200mmx200mm size (MCW, KCL-RF5), Red colour	sqm	62.50	36	18W LED Panel Light	each	825.00
5	Roof Tiles of 200mmx200mm size (MCW, KCL-RF5), Beige colour	sqm	67.25	37	24W LED Panel Light	each	1,225.00
6	Roof Tiles Ridge of 200mmx100mm size (MCW, KCL-RF6), Beige colour	sqm	34.50	38	BBT 800A(With installation)	m	28,790.00
7	Roof Tiles of 418mmx330mmx17mm size	sqm	73.00	39	BBT 1000A(With installation)	m	34,838.00
8	Roof Tiles Ridge of 425x245mmx15mm size	sqm	123.00	40	BBT 1250A(With installation)	m	44,992.00
9	Roof Tiles of 265mmx270mm size (MCW, KCL-RF3), Red colour	each	97.50	41	BBT 1600A(With installation)	m	68,442.00
10	Test fee for Elastomeric/ Neoprene bearings	each	25,325.00	42	BBT 2000A(With installation)	m	84,823.00
11	Test fee for Anchorage of Multi-Strand System	set	90,000.00	43	8CH POE NVR	each	16,000.00
12	M.S. Ribbed/ Deformed Bar (Grade 500 DWR)	kg	69.00	44	16CH POE NVR(8 PORT POE)	each	16,000.00
13	Fitting,fixing,erection,removing and welding of MS angle,Plate,Nut Bolt, Stifinner, I-Beam including Labour Cost etc.	kg	60.00	45	8 Port POE Switch	each	18,000.00
14	300mm dia MS pipe and wall thickness 10 mm	m	6,530.00	46	IR Bullet IP Camera	each	6,200.00
15	H.C. of 300 mm dia & 10 mm thick MS pipe	m/mont h	420.00	47	IR Dome IP Camera	each	6,000.00
16	H.C. of Shal wood	cum	12,500.00	48	Timber/Fruit/Herbal saplings (minimum 2m height)	each	45.00
17	Portland Composite Cement (BDS EN 197-1:2003 CEM-II/B-V)	bag	440.00	49	Fertilizer (TSP)	kg	25.00
18	Roof Tiles of 125mmx170mm size (MCW, KCL-RF1), Beige colour	each	34.25	50	Palm saplings (minimum 600mm height)	each	40.00
19	Stainless Steel Sheet lettering (SS sheet minimum 1mm thick)	sqm	10,000.00	51	Coconut saplings -local (minimum 1m height)	each	150.00
20	Door Hasp bolt Stainless Steel 300mm long and 16mm dia	each	260.00	52	Coconut saplings -vietnamese or equivalent (minimum 1m height)	each	550.00
21	Stainless Steel pipe 40 mm dia 2.50mm thick	m	450.00	53	Normal salt	kg	25.00
22	75mm Pad lock & key heavy duty Steel sheet body	each	380.00	54	Bamboo split/stick of minimum 2m long & 50mm width	each	15.00
23	Drinkable water for Concreteing i/c storage reservior	liter	2.00	Labour			
24	50mm Pad lock & key heavy duty Steel sheet body	each	250.00	55	Head Mason	day	735.00
25	80mm thick Uni-Block 40MPa, Colour-Red/Black/any other Suitable Colour	each	27.00	56	Mason	day	635.00
26	100mm thick Uni-Block, 30MPa, Colour-Gray	each	29.00	57	Skilled Labour	day	550.00
27	100mm thick Uni-Block 30MPa, Colour-Red/Black/any other Suitable Colour	each	31.00	58	Ordinary Labour	day	480.00
28	100mm thick Uni-Block, 35MPa, Colour-Gray	each	30.00	59	Sardar	day	800.00
29	100mm thick Uni-Block 35MPa, Colour-Red/Black/any other Suitable Colour	each	32.00	60	Carpenter	day	700.00
30	100mm thick Uni-Block, 40MPa, Colour-Gray	each	31.00	61	Re-bar Fabricator	day	600.00
31	100mm thick Uni-Block 40MPa, Colour-Red/Black/any other Suitable Colour	each	33.00	62	Plumber/ Electric Mistry/ Painter	day	700.00
32	100mm thick Uni-Block, 45MPa, Colour-Gray	each	34.00	63	Helper of Plumber/ Electric Mistry/ Painter/ Carpenter/ Operator	day	490.00
				64	Welder	day	700.00
				65	Welder Helper	day	490.00
				66	Bailey Bridge Mistry	day	700.00
				67	Operator	day	600.00
				68	Sareng	day	600.00
				69	Khalashi	day	400.00
				70	Foreman	day	800.00
				71	Fitter	day	700.00
				72	Fitter Helper	day	490.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
73	Mosaic head mistry	day	700.00	115	H.C. of Welding Machine	day	500.00
74	Mosaic mistry	day	600.00	116	H.C. of Flat Body Truck (3 tons)	day	2,000.00
75	Skilled Technician	day	700.00	117	H.C. of Engine Boat	day	1,000.00
76	Semi Skilled Technician	day	600.00	118	H.C. of Distributor	day	3,750.00
77	Termite Technician	day	680.00	119	H.C. of Derrick	day	400.00
78	Foreman helper	day	350.00	120	H.C. of Pulley	day	250.00
79	Wages for LCS Labour	day	200.00	121	H.C. of Water Pump	day	500.00
80	Wages for LCS Labour Sardar	day	250.00	122	H.C. of Tremie Pipe	day	500.00
81	Rig Operator	day	600.00	123	H.C. of Bailer	day	300.00
82	Rig Operator Helper	day	490.00	124	H.C. of Cutter	day	200.00
83	Geo-tech Expert/Engineer	day	1,800.00	125	H.C. of Water Sealing Device	day	200.00
84	Lab Assistant	day	1,000.00	126	H.C. of Casing	day	260.00
85	Foundation Engineer	day	1,800.00	127	H.C. of Driving Equipment	day	350.00
86	Computer Operator	day	600.00	128	H.C. of Rig	day	8,590.00
87	Dredger Operator	day	800.00	129	H.C. of KATO Mobile Crane (upto 5 ton)	day	4,000.00
88	Surveyor	day	1,400.00	130	H.C. of Electric Auto Gas Cutter Set	day	500.00
89	Surveyor Helper	day	800.00	131	H.C. of Vertical Drill Machine	day	150.00
90	Air Cooler Technician	day	800.00	132	H.C. of Grinding Machine	day	100.00
91	Diploma Engineer	man-month	42,000.00	133	H.C. of Shaper Machine	day	1,000.00
92	Air-Cooler Mechanics	man-month	12,000.00	134	H.C. of Lathe Machine	day	1,000.00
93	Air-Cooler Plant Operator	man-month	9,000.00	135	H.C. of Chain Hoist (3 tons)	day	1,000.00
94	Air-Cooler Plant Operator Helper	man-month	6,000.00	136	H.C. of Tripod Stand	day	400.00
95	Electricians	day	750.00	137	H.C. of Chain Pulley (1.5 ton)	day	500.00
96	Asst Electrician	day	700.00	138	H.C. of Load Test Equipment and Accessories including Transportation: above 125 Ton capacity	set	12,500.00
97	Helper	day	490.00	139	H.C. of Load Test Equipment and Accessories including Transportation: up to 125 Ton Capacity	set	10,500.00
98	B. Sc. Engineer	day	1,800.00	140	H.C. of mosaic cutter machine	day	550.00
99	Asst. Technician	day	600.00	141	PIT: Mobilization, demobilization of Pile Integrity Testing Equipment including 10 nos. tests	set	15,000.00
100	Labor	day	400.00	142	H.C. of 3 Wheel Static Road Roller (10-12 ton)	day	4,000.00
101	Videographer	day	2,500.00	143	H.C. of Single Vibratory Steel Drum Roller (2 tires, 6-8 tons)	day	4,500.00
102	Photographer	day	1,200.00	144	H.C. of Single Vibratory Steel Drum Roller (4 tires, 8-10 tons)	day	5,000.00
103	CAD Operator	day	600.00	145	H.C. of Single Vibratory Steel Drum Roller (4 tires, 10-12 tons)	day	5,500.00
104	Blacksmith	day	450.00	146	H.C. of Mini Asphalt Plant (7-9 tons)	day	4,500.00
105	Skilled Labour for Pneumatic breaker	day	470.00	147	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)	day	2,500.00
106	Pump Operator	day	500.00	148	H.C. of Vibratory (Ride On) Tandem Steel Drum Roller (4 tires, 1-3 tons)	day	2,000.00
107	Pump Operator Helper	day	350.00	149	H.C. of Vibratory (Ride On) Roller 2 Steel Drum Compactor (3-5 tons)	day	3,000.00
108	Diploma Engineer (Daily Basis)	day	750.00	150	H.C. of Vibratory (Ride On) Tandem Roller 2 Steel Drum (6-7 tons)	day	4,500.00
109	Fire Mechanics	day	700.00	151	H.C. of Vibratory (Walk Behind) 2 Steel Drum Compactor (0.9 tons)	day	1,150.00
Equipment				152	H.C. of Flat Body Truck (5 tons)	day	3,000.00
110	H.C. of 3 Wheel Static Road roller (8-10 ton)	day	3,500.00	153	H.C. of Dump Truck/ Tripping Trucks	day	4,500.00
111	H.C. of Concrete Mixture Machine (Capacity 0.40/ 0.28 cum)	day	1,200.00	154	H.C. of Water Tanker (Truck Mounted)	day	2,500.00
112	Hire and running charges of Concrete Vibrator	day	400.00				
113	H.C. of Tripod and Mechanical Winch Machine complete with power unit and accessories	day	3,000.00				
114	H.C. of Garb	day	500.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
155	H.C. of Water Tanker (Towed by Tractor)	day	1,500.00	196	Hire and running charges of hydraulic static pile driver including complete accessories and shifting at site	day	280,000.00
156	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	day	3,000.00	197	Pressing Machine	day	3,000.00
157	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10 tons)	day	3,000.00	198	AC Paver	day	6,000.00
158	H.C. of Pneumatic Multiple Tired Roller (9 tires, 8-10 tons)	day	3,000.00	199	Asphalt Plant	day	10,000.00
159	H.C. of Pneumatic Multiple Tired Roller (9 tires, 10-12 tons)	day	3,000.00	200	H. C. of Thermoplastic Applicator Machine	day	2,000.00
160	H.C. of Backhoe End Loader (6 tons)	day	6,000.00	201	H.C. of pre-cast pile driving complete rig set with liner including cost of fuel and lubricant etc.	day	6,000.00
161	H.C. of Backhoe End Loader (12 tons)	day	6,000.00	202	H.C. of pre-cast micro pile driving complete rig set	day	5,000.00
162	H.C. of Wheel Loader (1.5 cum)	day	3,000.00	203	Hire and running charges of double acting diesel hammer mounted complete rig set with power unit and accessories	day	25,000.00
163	H.C. of Wheel Loader (2.5 cum)	day	6,000.00	204	H.C. of Crane for lifting & movement of diesel mounted hammer up to site	day	50,000.00
164	H.C. of Motor Graders (14 tons)	day	6,000.00	205	H.C. of Truck for carrying diesel hammer mounted rig	day	15,000.00
165	H.C. of Bull Dozer/ Tractors	day	6,000.00	206	Air Compressor 250 cfm with pneumatic breaker/ jack hammer along with accessories.	day	2,500.00
166	H.C. of KATO Mobile Crane Truck Mounted (20 ton)	day	11,000.00	207	H.C. of Shotcreting equipment	hour	500.00
167	H.C. of Letourneau Mobile Crane (20 ton)	day	6,000.00	208	H.C. of Grout pump with agitator & accessories	hour	200.00
168	H.C. of P & H Mobile Crane (25 ton)	day	10,000.00	209	H.C. of Jack for Lifting 50 ton lifting capacity	day	1,250.00
169	H.C. of Excavator (Medium Size)	day	7,840.00	210	H.C. of MS Plate, MS Angle & I-Beam etc.	kg	18.00
170	H.C. of Tractor (2 WD)	day	2,200.00	211	H.C. of Load Test Equipment and Accessories including Transportation: 500 - 1500 Ton Capacity	set	100,000.00
171	H.C. of Tractor (4 WD)	day	2,200.00	212	H.C. of Concrete Block (Size: 1.0m x 1.0m x 1.0m)	each/m onth	833.00
172	H.C. of Mechanical Road Sweeper Broom	day	1,000.00	213	H.C. of Sewing Machine	day	500.00
173	H.C. of Concrete Mixture Machine (5 cft)	day	750.00	214	Hire and running charges of Batching and Mixing Plant @175 cum/hour	day	63,000.00
174	H.C. of Mechanical Porter Vibrator (16 KW)	day	400.00	215	Hire and running charges of Batching and Mixing Plant @ 75 cum/hour	day	40,000.00
175	H.C. of Forward Plate Compactor (2.9 KW)	day	850.00	216	Hire and running charges of Batching and Mixing Plant @ 30 cum/hour	day	30,000.00
176	H.C. of Plate Compactor (LF-72)	day	850.00	217	Hire and running charges of Batching and Mixing Plant @ 20 cum/hour	day	23,000.00
177	H.C. of Plate Compactor (LF-90 A)	day	850.00	218	Hire and running charges of Concrete Pump (30 & 45 cum capacity)	day	5,000.00
178	H.C. of Trailer (Mini)	day	400.00	219	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
179	H.C. of Trailer (4 ton)	day	400.00	220	Hire and running charges of light crane for lowering reinforcement cage & operating tremie pipe	day	4,500.00
180	H.C. of Russian Trailer (20 ton)	day	3,000.00	221	Hire and running charges of bentonite pump	day	3,200.00
181	H.C. of Bitumen Distributor	day	3,750.00	222	H.C. of Tipper -5 cum capacity	day	4,500.00
182	H.C. of Bitumen Heater & Decanter	day	5,000.00	223	H.C. of Transit Mixer 4.0/4.5 cum capacity including fuel & other related cost	day	10,000.00
183	H.C. of Bitumen Heater (250 liter)	day	600.00	224	H.C. of Transit Mixer 3.0 cum capacity including fuel & other related cost.	day	90,000.00
184	H.C. of Taret Tanker	day	500.00	225	H.C. of Generator (100 KVA)	day	3,500.00
185	H.C. of Bitumen Hand Sprayer (150 liter)	day	300.00	226	H.C. of Crane for lifting & movement of Hydraulic static pile driver up to site	day	55,000.00
186	H.C. of Trolley Mounted Bitumen Hand Sprayer (500 liter)	day	1,000.00	227	H.C. of Low bed Trailers for carrying Hydraulic static pile driver	per trip	140,000.00
187	H.C. of Lister Engine	day	10,000.00				
188	H.C. of Mixing Machine for Aggregate	day	8,000.00				
189	H.C. of Equipment and Accessories, including transportation for Electronic Cone Penetration Test (CPT) Accessories	day	80,000.00				
190	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	6,750.00				
191	H. C. of Compressor	day	400.00				
192	H. C. of Dredger	day	12,000.00				
193	H. C. of Level/Theodolite	day	600.00				
194	H.C. of Vibratory Road Roller (8-10 ton)	day	3,000.00				
195	H.C. of electric grinding machine	day	165.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate
228	H.C. of Truck for carrying Counter Weights of Hydraulic static pile driver	per trip	20,000.00
229	Hire & running charges of Joint cutting machine with 2-3 blades	day	1,500.00
230	H.C. of Submersible Pump - 3 HP	day	1,200.00
231	H.C. of Tipper -5 cum capacity for lead beyond 1 km	ton.km	6.00
232	H.C. of Unifloat/ Pontoon	day	1,200.00
233	H.C. of Tower Crane	day	5,000.00
234	H.C. of Generator (40 KVA)	day	2,500.00
235	H.C. of Generator (150 KVA)	day	5,000.00
236	H.C. of 150mm dia & 4mm thick MS pipe	m/mont h	65.00
237	Hire and running charges of Crane (Capacity 50 MT)	day	60,000.00
238	H.C. of 100mm dia & 4mm thick MS pipe	m/mont h	45.00
239	H.C. of 200mm dia & 6.5mm thick MS pipe	m/mont h	115.00
240	H.C. of high bed Trailers for carrying Long leg, short leg & generator of Hydraulic static pile driver	each	45,000.00
241	H.C. of Cutter (Geo-Textile)	day	500.00
242	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	9,300.00
243	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	10,800.00
244	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	14,200.00
245	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	16,750.00
246	H.C. of Sheating Pipe Machine	Day	2,500.00
247	H.C. of Stressing Jack with Pump and other accessories	Day	1,500.00
248	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
249	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
250	Hire and running Charges of Pile Driving Analyzer (PDA) with four (4) Strain transducers and two (2) Piezoelectric accelerometers	day	30,000.00
251	Hire and running charges of Crane (Capacity 80 MT)	day	70,000.00
252	Hire and running charges of Crane (Capacity 100 MT)	day	80,000.00
253	Hire and running charges of Reversible Drum Mixer/ Batch Mix Plant (15 cum/hr)	day	15,000.00

SL No	Basic Item	Unit	Rate
254	Hire and running charges for horizontal/inclined rock drilling machine (Diameter of Drill Hole = 125mm)	day	20,000.00
255	Hire and running charges for rock drilling machine (Diameter of Drill Hole = 250 - 300mm)	day	46,000.00
256	Hire and running charges of hydraulic piling rig Including doubleacting pile driving hammer complete with power unit, accessories and shifting at site	day	40,000.00
257	Hire & running charges of crane with grab bucket of 0.75 cum capacity and accessories.	day	12,000.00

Road Works

258	1st Class Brick	each	9.80
259	12mm down graded Brick Chips	m3	3,374.00
260	20mm down graded Brick Chips	m3	3,252.00
261	Stone Boulder	m3	3,700.00
262	1st Class Picked Brick Bats	m3	2,220.00
263	20mm down graded Picked Brick Chips	m3	3,252.00
264	Stone Chips (12mm down graded) [LAA≤30]	m3	6,020.00
265	Stone Shingles (20mm down graded)	m3	4,350.00
266	Stone Chips (20mm down graded) [LAA≤30]	m3	6,350.00
267	Stone Chips (6mm down graded) [LAA≤30]	m3	5,000.00
268	Sand (FM - 1.2)	m3	634.00
269	Sand (FM - 0.5)	m3	535.00
270	Sand (FM - 0.8)	m3	610.00
271	Sand (FM - 1.0)	m3	614.00
272	Sand (FM - 1.5)	m3	860.00
273	Sand (FM - 1.8)	m3	1,050.00
274	Sand (FM - 2.5)	m3	1,740.00
275	Sand (FM - 2.8)	m3	1,770.00
276	Bitumen [Grade 80/100]	kg	65.00
277	Bitumen Emulsion	kg	90.00
278	Coal Tar	kg	12.50
279	Kerosene	litre	72.00
280	Fire wood	kg	8.00
281	Turf	m2	5.00
282	Royalty of Earth (Within Municipal Area)	m3	60.00
283	Royalty of Earth (Outside Municipal Area)	m3	40.00
284	Royalty of Earth	m3	25.00
285	Bitumen Drum Sheet	m2	269.00
286	Empty Gunny Bag	each	30.00
287	Tarza	m2	210.00
288	Geo Textile (Grade-I-DF-20-1.5mm thick)	m2	60.00
289	Geo Textile (Grade-II-DF-30-2.0mm thick)	m2	60.00
290	Geo Textile (Grade-III-DF-40-2.3mm thick)	m2	65.00
291	Geo Textile (Grade-IV-DF-50-2.5mm thick)	m2	75.00
292	Geo Textile (Grade-V-DF-60-3.0mm thick)	m2	90.00
293	Borak Bamboo (50mm dia)	m	32.00
294	Borak Bamboo (75mm dia)	m	39.00
295	Borak Bamboo (75mm to 100mm)	m	47.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
296	Chittagong Teak	m3	144,860.00	340	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 500 gsm	sqm	29.00
297	Jessore Teak	m3	120,000.00	341	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 600 gsm	sqm	32.00
298	Mehagoni/ Shishu	m3	59,760.00	342	Jute Geo-Textile (JGT): Double Warp Plain Weave with Bitumen treatment - 627 gsm	sqm	
299	Jam/Jarul	m3	64,710.00	343	Jute Geo-Textile (JGT): Natural Additive Treated Double Warp Plain Weave - 627 gsm	sqm	139.00
300	Sundari/ Garzen	m3	67,510.00	344	RHT: Mobilization, demobilization & accomodation including 10 nos. RHT (Rebound Hammer Test)	within 100km	10,000.00
301	Shal	m3	75,000.00	345	RHT/UPV: Beyond 100km from Dhaka	per km	25.00
302	Chaplish Wood	m3	84,500.00	346	RHT: per impact after 1st 10 RHT	each	1,000.00
303	Jack Wood	m3	78,340.00	347	UPV: Mobilization, demobilization & accomodation including 10 nos. UPV (Ultrasonic Pulse Velocity) Test	within 100km	15,000.00
304	Sil Korai	m3	88,000.00	348	UPV: per test after 1st 10 UPV	each	1,500.00
305	Babla	m3	42,000.00	349	Mobilization, demobilization & accomodation including 3 nos. in-situ core cutting & testing	within 100km	16,000.00
306	Gamari	m3	55,650.00	350	Core Cutter: Beyond 100km from Dhaka	per km	35.00
307	Shal/sundari/gazari Bullah (200mm to 250mm)	m	426.40	351	Core Cutter: per core after 1st 3 cores	each	4,200.00
308	Shal/sundari/gazari Bullah (150mm to 200mm)	m	225.00	352	Spade with suitable wooden handle	each	300.00
309	Ordinary Portland Cement (CEM I, 52.5N)	bag	490.00	353	Hand Rammer (Durmus) with suitable wooden handle	each	450.00
310	40mm down graded Brick Chips	m3	3,063.00	354	Cutlass (Dao)	each	200.00
311	Diesel	liter	68.00	355	Basket (Made of Branches of Bamboo)	each	90.00
312	Lubricant	liter	220.00	356	Water Jar	each	280.00
313	Vertiver (binna) Grass	m2	11.00	357	Umbrella	each	220.00
314	Fine Aggregate (Bricks)	m3	1,200.00	358	Apron for Worker	each	300.00
315	Clay	cum	1,080.00	359	Flag for Worker	each	25.00
316	50mm down graded Brick Chips	m3	3,000.00	360	Stone Chips (50mm down graded) [LAA≤35]	cum	5,750.00
317	Sandy Soil	m3	216.00	361	Stone Chips (50mm down graded) [LAA≤25]	cum	6,550.00
318	Local Sand (Sieve # 200 passing not more than 15%)	m3	430.00	362	Stone Chips (38mm down graded) [LAA≤35]	cum	5,850.00
319	Empty Bitumen Drum	each	300.00	363	Stone Chips (38mm down graded) [LAA≤25]	cum	6,600.00
320	Stone Chips (38mm down graded) [LAA≤30]	cum	6,160.00	364	Stone Chips (25mm down graded) [LAA≤35]	cum	6,050.00
321	Stone Chips (50mm down graded) [LAA≤30]	cum	6,050.00	365	Stone Chips (25mm down graded) [LAA≤25]	cum	6,950.00
322	Jute Geo-Textile (JGT): Open Mesh Plain Weave (Soil Saver) - 700 gsm	sqm	35.00	366	Stone Chips (20mm down graded) [LAA≤35]	cum	6,000.00
323	Stone Dust (2.38mm down)	cum	2,100.00	367	Stone Chips (20mm down graded) [LAA≤25]	cum	6,900.00
324	Akash Moni	cum	70,600.00	368	Stone Chips (16mm down graded) [LAA≤35]	cum	6,000.00
325	25mm down graded Brick Chips	cum	3,198.00	369	Stone Chips (16mm down graded) [LAA≤25]	cum	6,900.00
326	Stone Chips (25mm down graded)[LAA≤30]	cum	6,400.00	370	Stone Chips (12mm down graded) [LAA≤35]	cum	5,480.00
327	Stone Chips (16mm down graded)[LAA≤30]	cum	6,350.00	371	Stone Chips (12mm down graded) [LAA≤25]	cum	6,310.00
328	2.9mm thick MS Pipe (62.5mm dia)	m	604.00	372	Stone Chips (6mm down graded) [LAA≤35]	cum	4,500.00
329	Crushed stone (Louva) chips (38mm down graded)	cum	3,350.00	373	Stone Chips (6mm down graded) [LAA≤25]	cum	5,300.00
330	2.9mm thick MS Pipe (50mm dia)	m	440.00	374	Bitumen [Grade 60/70]	kg	68.00
331	Empty Plastic Cement/Fertilizer Bag	each	10.00	375	GI Wire Net (12 BWG) [Rhombus Size 50mm]	sqm	140.00
332	Dredging & Carrying Cost of Earth	hr.	2,000.00	376	Bitumen hot sealing compound [Grade: A]	kg	100.00
333	Empty Geo-Bag (Size-900mmX450mm)	each	87.00	Structure Works			
334	Ready Mixed Road Marking Paint	liter	608.75	377	MS Rod (Plain, 40 Grade)	kg	62.00
335	Thermoplastic Compound	kg	121.40	378	M.S. Ribbed/ Deformed Bar (Grade 300)	kg	61.00
336	Reflectorising Glass Beads	kg	121.40	379	M.S. Ribbed/ Deformed Bar (Grade 400)	kg	70.00
337	Portland Composite Cement (CEM-II/A-L/M/V/W 42.5N)	bag	460.00				
338	Jute Geo-Textile (JGT): Double Warp Plain Weave - 627 gsm	sqm	99.00				
339	Jute Geo-Textile (JGT): Double Warp Plain Weave - 724 gsm	sqm	117.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
380	MS Angle, Flat bar, Z bar	kg	71.00	427	4mm thick 150mm dia MS pipe-5mm thick	m	2,624.00
381	MS Double Angle (75x75x9mm)	kg	65.00	428	4mm thick 200mm dia MS plate	each	325.00
382	6mm Thick MS Casing (400mm dia)	m	4,800.00	429	5mm thick 200mm dia MS pipe-6.5mm thick	m	3,608.00
383	6mm Thick MS Casing (500mm dia)	m	6,000.00	430	5mm thick 250mm dia MS plate	each	350.00
384	6mm Thick MS Casing (600mm dia)	m	7,150.00	431	5mm thick 250mm dia MS pipe-7mm thick	m	4,920.00
385	6mm Thick MS Casing (700mm dia)	m	8,350.00	432	5mm thick 300mm dia MS plate	each	410.00
386	8mm Thick MS Casing (800mm dia)	m	12,700.00	433	6mm thick 300mm dia MS pipe-8mmthick	m	5,740.00
387	8mm Thick MS Casing (900mm dia)	m	14,300.00	434	6mm thick 300mm dia MS plate	each	410.00
388	10mm Thick MS Casing (1000mm dia)	m	19,850.00	435	6mm thick 150mm dia MS cap (best quality)	each	1,025.00
389	MS Pipe (50mm dia, 2.35mm thick)	m	407.00	436	6mm thick 200mm dia MS cap (best quality)	each	1,682.00
390	MS Pipe (200mm dia)	m	3,615.00	437	6mm thick 350mm dia MS cap (best quality)	each	4,320.00
391	MS Pipe (300mm dia)	m	5,400.00	438	High Density Polyethylene Duct	m	0.00
392	MS Plate Bearing (upto 25mm thick)	kg	75.00	439	Expert Fees for Integrity test and assessment of result	set	0.00
393	MS Plate Bearing (beyond 25mm thick)	kg	75.00	440	Reporting charge of Integrity Test	set	
394	MS Plate (8mm thick)	kg	75.00	441	Double Headed/ Flat Footed EI Rail	kg	75.00
395	MS Plate (9mm thick)	kg	75.00	442	RS Joist	kg	75.00
396	MS Plate (20mm thick)	kg	75.00	443	CI Shoe (750mm dia)	each	6,750.00
397	CI Shoe (300mm dia)	each	1,650.00	444	H.T. Strand	MT	138,500.00
398	CI Shoe (600mm dia)	each	5,200.00	445	Corrugated Galvanized Steel Sheathing Duct	m	165.00
399	CI Cap (single headed)	each	1,650.00	446	10mm Thick MS Casing (1200mm dia)	m	23,800.00
400	CI Cap (double headed)	each	1,875.00	447	Stackyard Rent	m3	6.48
401	Roller Bearing (150mm dia)	kg	125.00	448	Water Reducing Admixture	liter	130.00
402	Roller Bearing (beyond 150mm dia)	kg	150.00	449	Mobilization, demobilization, arrangement of plates for loading	each	7,150.00
403	Hinge Plate Bearing (25mm dia)	kg	275.00	450	Film Galvanizing Compound	kg	4,550.00
404	Hinge Plate Bearing (beyond 25mm dia)	kg	335.00	451	Water Paper	each	22.00
405	Elastomeric/Neoprene Bearing	cm3	1.73	452	Scraper	each	55.00
406	Bentonite	kg	36.00	453	Chissel	each	65.00
407	GI Wire Net (12 BWG) [Rhombus Size 75mm]	m2	120.00	454	Roll Brush	each	50.00
408	Electrode	pkt	875.00	455	Wire Brush	each	50.00
409	Admixture	kg	130.00	456	Jute	kg	20.00
410	Aluminium Sheet	kg	232.20	457	Hand Gloves	Pair	130.00
411	Lead Sheet	kg	350.00	458	Galvanize Coating Expert	day	800.00
412	Copper folded water stop sheet	m2	891.00	459	Polyurethane with micaceous iron oxide	liter	6,000.00
413	Mastic or bituminous sealing	m	91.80	460	Rust & Paint Removing Solution	liter	400.00
414	MS Shoe Plate (250x375x10mm)	kg	80.00	461	Ditergent Powder	kg	180.00
415	Nails/ Nut bolts/ Screw/ Spikes	kg	80.00	462	H.C. of Electric Genarator	day	
416	GI Wire (22 BWG)	kg	90.00	463	High Yield strength wire	kg	200.00
417	Wire Rope	m	16.40	464	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	30,600.00
418	Jute Rope	kg	120.00	465	Strip seal for 50mm	m	
419	Nylon Rope	kg	140.00	466	Strip seal for 80mm	m	
420	H. T. Cables	tonne		467	Edge beams, anchorage	kg	
421	MS plate (6mm thick) in sqm	m2	3,532.00	468	Reflectorized paint	liter	2,528.00
422	20 Mesh 24 BWG GI wire net	m2	150.00	469	Corrugated sheet,3 mm thick, "W" beam section railing	kg	150.00
423	MS Plate (3mm)	kg	65.00				
424	MS Plate (6mm)	kg	75.00				
425	10 BWG wire reinforcement	kg	90.00				
426	18 SWG GP sheet	m2	891.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
470	Channel post 150 x 75 x 5 mm,1.8 long	kg	120.00	504	Reinforcement strips 60 mm wide 5 mm thick Galvanised carbon steel strips	m	800.00
471	Spacer 150 x 75 x 5 mm channel 0.33 m long,	kg	120.00	505	Reinforcement strips 60 mm wide 5 mm thick Glass reinforced polymer/ fibre reinforced polymer/ polymeric strips	m	800.00
472	50mm dia. MS pipe and wall thickness 4mm	m	640.00	506	Reinforcement strips 60 mm wide 5 mm thick Stainless steel strips	m	400.00
473	75mm dia. MS pipe and wall thickness 4mm	m	780.00	507	Reinforcement strips 60 mm wide 5 mm thick Aluminium strips	m	400.00
474	100mm dia MS pipe and wall thickness 4mm	m	1,300.00	508	Synthetic Geogrids as per approved design and specifications	sqm	180.00
475	150mm dia. MS pipe and wall thickness 4mm	m	1,950.00	509	Synthetic Geonets	sqm	130.00
476	200mm dia. MS pipe and wall thickness 6.5mm	m	3,510.00	510	Synthetic Geomembrane	sqm	130.00
477	25mm x 25mm MS box and wall thickness 4mm	m	350.00	511	Perforated geosynthetic pipe 150 mm dia	m	120.00
478	40mm x 40mm MS box and wall thickness 4mm	m	475.00	512	Prefabricated Vertical Synthetic Drains (SPVD)- Non-woven polypropylene/ polyester geotextile	m	145.00
479	50mm x 50mm MS box and wall thickness 6mm	m	870.00	513	Prefabricated Vertical Jute Drain (PVJD) - Jute sheath with coir wick	m	125.00
480	62.5mm x 62.5mm MS box and wall thickness 6mm	m	1,050.00	514	MS Plate (6mm thick) in Wt.	kg	75.00
481	75mm x 75mm MS box and wall thickness 8mm	m	1,720.00	515	MS Plate (12mm thick)	kg	75.00
482	100mm x 100mm MS box and wall thickness 8mm	m	2,225.00	516	Corrosion resistant Structural steel	kg	70.00
483	125mm x 125mm MS box and wall thickness 8mm	m	2,750.00	517	GI bolt 10mm diameter	each	20.00
484	125mm x 125mm MS box and wall thickness 10mm	m	3,350.00	518	Galvanized MS Flat Clamp	each	20.00
485	150mm x 150mm MS box and wall thickness 8mm	m	3,220.00	519	Fabrication cost for MS plate, Angle & I-beam for cofferdam	kg	32.00
486	150mm x 150mm MS box and wall thickness 10mm	m	3,950.00	520	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	28.00
487	M.S. Ribbed/ Deformed Bar (Grade 500)	kg	69.00	521	Removal of Cofferdam materials after completion of pier shaft above water level	kg	8.00
488	Retro-Reflecting Sheet	sqm	2,260.00	522	MS pipe driving in river bed and removal	m	250.00
489	Chequer Plate (thickness 6mm)	sqm	110.00	523	Artificial Casing Preparation	sqm	352.00
490	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	165,000.00	524	Cork/ Polystyrene Sheet (25mm thick)	sqm	162.00
491	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	246,000.00	525	Cork/ Polystyrene Sheet (20mm thick)	sqm	150.00
492	12mm Thick MS Casing (1500mm dia)	m	35,650.00	526	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	each	850.00
493	12mm Thick MS Casing (1800mm dia)	m	42,750.00	527	25mm dia. Stainless Steel pipe and wall thickness 2.00mm	m	335.00
494	Epoxy compound with accessories for preparing epoxy mortar	kg	500.00	528	38mm dia. Stainless Steel pipe and wall thickness 2.50mm	m	710.00
495	Epoxy mortar	kg	275.00	529	50mm dia. Stainless Steel pipe and wall thickness 2.50mm	m	960.00
496	Epoxy Primer	kg	20.00	530	62.5mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	1,450.00
497	Epoxy resin-hardner mix for prime/seal coat conforming to ASTM C 881/ AASHTO M 235	kg	785.00	531	75mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	1,700.00
498	Non-Shrink Grout Admixture conforming to ASTM C 1107	Kg	400.00	532	100mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	2,450.00
499	Acrylic Polymer Bonding Agent	liter	160.00	533	125mm dia. Stainless Steel pipe and wall thickness 3.00mm	m	3,200.00
500	Pre-packed cement based polymer mortar of strength 45 Mpa at 28 days	kg	160.00	534	25mm x 25mm Stainless Steel box and wall thickness 2.00mm	m	570.00
501	Quick Setting Compound	Kg	100.00				
502	Calibration of Hydraulic Jack	set	30,000.00				
503	Reinforcement strips 60 mm wide 5 mm thick Copper Strips	m	800.00				

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
535	32mm x 32mm Stainless Steel box and wall thickness 1.50mm	m	555.00	567	Anchorage of 4K15/ 4T15 System	Set	4,550.00
536	38mm x 38mm Stainless Steel box and wall thickness 2.50mm	m	915.00	568	Anchorage of 27K15/ 27T15 System	Set	14,300.00
537	50mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,150.00	569	Anchorage of 37K15/ 37T15 System	Set	16,250.00
538	62.5mm x 62.5mm Stainless Steel box and wall thickness 2.00mm	m	1,495.00	570	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	65.00
539	50mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	680.00	571	Limestone Powder	kg	12.00
540	75mm x 25mm Stainless Steel box and wall thickness 1.50mm	m	910.00	572	Bitumen (Drum/Bulk) of Penetration Grade 10/20	kg	52.00
541	75mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,405.00	573	16mm Thick MS Casing (2000mm dia)	m	63,400.00
542	100mm x 50mm Stainless Steel box and wall thickness 2.00mm	m	1,765.00	574	20mm Thick MS Casing (2500mm dia)	m	99,000.00
543	Materials cost for PIT	each	4,200.00	575	Monostrand Steel Anchorage (1K15/ 1T15)	each	1,100.00
544	Unbonded Monostrand	MT	150,000.00	576	75mm diameter HDPE Sheathing Duct	m	160.00
545	M.S. Ribbed/ Deformed Bar (Grade 420)	kg	69.50	577	90mm diameter HDPE Sheathing Duct	m	170.00
546	M.S. Ribbed/ Deformed Bar (Grade 550)	kg	69.00	578	Silica Fume in accordance with ASTM C 1240	kg	30.00
547	Fusion Bonded Epoxy Coating (FBEC) to Reinforcing Bar as per ASTM A775 (Average rate for bars of 8mm to 12mm)	kg	10.00	579	Micro Concrete (25 kg)	bag	1,850.00
548	Epoxy resin based anchoring mortar for fixing heavy loads	Cartridge	2,700.00	580	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	1,600.00
549	H.C. of Mastic Cooker (1 tonne capacity)	day	3,000.00	581	Fusion Bonded Epoxy Coating (FBEC) to Reinforcing Bar as per ASTM A775 (Average rate for bars of 16mm to 50mm)	kg	8.00
550	Monostrand Steel Anchorage (1K13/ 1T13)	set	850.00	582	Shock Transmission Unit (For Horizontal Load <= 50 MT)	MT	32,500.00
551	Construction Water	KL	500.00	583	Shock Transmission Unit (For Horizontal Load >= 50 MT)	MT	24,500.00
552	CSL: Mobilization, demobilization & accommodation including 4 nos. CSL (Crosshole Sonic Logging)	set	200,000.00	584	Coupler (Min. Outer diameter 82mm & Length 300mm) including wastage 2% & carrying	each	450.00
553	PIT/ CSL: Beyond 100km from Dhaka	per km	35.00	585	Dust suppression measures	km	2,000.00
554	CSL: per CSL after 1st 4 nos. CSL	each	40,000.00	586	Temporary Toilet Facility at site	each	10,000.00
555	Non-Shrink Grout	Kg	40.00	587	Waste Disposal Facility	each	10,000.00
556	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	470.00	588	CCB-M20/25: Concrete Cover Block with 20/25 mm clear cover facility for Slab, Stair etc.	Nos.	2.50
557	Water based Concrete Curing Compound conforming to ASTM C 309/ AASHTO M 148	Liter	400.00	589	CCB-M35/40: Concrete Cover Block with 35/40 mm clear cover facility for Beam, column, RCC Wall, Girder, Pier etc.	Nos.	6.00
558	C.I. Shoes for the pile	kg	75.00	590	CCB-M45/50: Concrete Cover Block with 45/50 mm clear cover facility for Beam, Column, RCC Wall, Girder, Pier etc.	Nos.	8.00
559	M.S. Clamps for Shoe	kg	85.00	591	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.	12.00
560	Steel Helmet and Cushion block on top of casing head during driving	kg	75.00	592	CCB-M100/110: Concrete Cover Block with 100/110 mm clear cover facility for top layer of slab reinforcement	Nos.	15.00
561	PIT: per PIT after 1st 10 nos. PIT	Each	1,200.00	593	CCB-C40: Concrete Cover Block with (Circular) 40 mm clear cover facility for Spiral Column, RCC Wall etc.	Nos.	10.00
562	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	25,000.00	594	CCB-C75: Concrete Cover Block with (Circular) 75 mm clear cover facility for Piling Work	Nos.	30.00
563	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	38,000.00	595	CCB-L40: Concrete Cover Block with (L-Shape) 40 mm clear cover facility for Beam/ Column Construction	Nos.	10.00
564	Anchorage of 4K13/ 4T13 System	Set	3,500.00	596	Thinner for anti corrosive red oxide paint	Liter	120.00
565	Anchorage of 27K13/ 27T13 System	Set	11,700.00				
566	Anchorage of 37K13/ 37T13 System	Set	15,600.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
597	Fabrication cost for MS plate, Angle & I-beam for Girder/ Plate Girder including the cost of electricity, LP gas, machinaries etc.	Kg	25.00	622	GP (Homogeneous) 400x400 mm size unglazed floor tiles (RAK, GreatWall or Prior approved quality)	m2	753.20
598	Erection cost for built-up sections	Kg	10.00	623	GP (Mirror Polished) 300x300 mm size floor tiles (RAK, GreatWall or Prior approved quality)	m2	667.12
599	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (up to 100mm)[Without Elastic Seal]	m	136,000.00	624	GP (Mirror Polished) 400x400 mm size floor tiles (RAK, GreatWall or Prior approved quality)	m2	882.32
600	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (up to 100mm)[With Elastic Seal]	m	259,000.00	625	GP (Mirror Polished) 600x600 mm size floor tiles (RAK, GreatWall or Prior approved quality)	m2	1,097.52
601	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (100mm to 200mm)[Without Elastic Seal]	m	210,000.00	626	GP 305x305 mm size floor (stair step) tiles (RAK, GreatWall or Prior approved quality)	m2	893.08
602	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (100mm to 200mm)[With Elastic Seal]	m	420,000.00	627	Counter sunk rivets	each	5.94
603	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (200 to 300mm)[Without Elastic Seal]	m	428,000.00	628	Roof Tiles of 200mmx200mm size (MCW, KCL-RF2), Red colour	each	56.00
604	Finger expansion joint including all necessary components, all steel sections protected against corrosion and installed by the manufacturer (200 to 300mm)[With Elastic Seal]	m	840,000.00	629	Padlo	kg	120.00
605	HDRB: High Damping Rubber Bearing assembly duly painted with all components	MT	1,300.00	630	MS flat bar clamp(175x38x6mm)	kg	65.00
606	DB: Disk Bearing assembly with duly painted with all components	MT	2,250.00	631	MS flat bar clamp(150x38x6mm)	kg	65.00
Building Works				632	Paint	litre	260.00
607	Ceramic Bricks (200x100x50mm)	each	19.75	633	Synthetic Enamel Paint	litre	260.00
608	10mm well graded Marble Chips (Indian)	kg	15.00	634	Anti Corrosive Red Oxide (Zinc chromate) Primer	kg	185.00
609	White Cement	kg	25.00	635	0.18mm thick polythene sheet	m2	12.40
610	10mm well graded Marble chips (Pakistani)	kg	20.00	636	Emery Paper	each	22.00
611	Pumice Stone	each	170.00	637	Rowel plug	each	0.25
612	Minar Stone	each	400.00	638	3mm thick glass	m2	410.00
613	Slacked Lime	kg	27.00	639	5mm thick glass	m2	753.00
614	Surki	m3	1,400.00	640	0.46mm thick galvanized CI sheet	bundle	8,000.00
615	20mm thick gray marble stone	m2	4,404.00	641	0.46mm thick galvanized plain iron ridging	m	165.00
616	Glazed wall tiles less than or equivalent to 250mmx330mm in size	m2	484.00	642	Teak chambol	m3	112,000.00
617	Glazed wall tiles more than 250mmx330mm and less than 250mmx400mm in size or equivalent	m2	591.98	643	Telsu	m3	65,000.00
618	Glazed wall tiles more than 250mmx400mm and less than 300mmx450mm in size or equivalent	m2	645.06	644	Burma Teak veneered	m2	1,030.00
619	GP (Homogeneous) 300x300 mm size glazed floor tiles (Fu-Wang, RAK, GreatWall or Prior approved quality)	m2	645.60	645	Champa veneered	m2	610.00
620	GP (Homogeneous) 400x400 mm size glazed floor tiles (Fu-Wang, RAK, GreatWall or Prior approved quality)	m2	742.44	646	Chaplish veneered	m2	915.00
621	GP (Homogeneous) 300x300 mm size unglazed floor tiles (RAK, GreatWall or Prior approved quality)	m2	656.36	647	Garjan veneered	m2	760.00
				648	Steel hinge (100mm)	each	150.00
				649	Steel hinge (125mm)	each	200.00
				650	Aluminium V-folded water stop sheet	m2	665.00
				651	Copper sheet	m2	
				652	50mm Screw (Iron)	each	1.12
				653	40mm screw (Iron)	each	0.42
				654	uPVC door (760mmx1980mm) polywood (PW1, PW2) (900mmx2100mm) in/c frame, shatter, hinges, clumps, hinges locks clumps	set	4,000.00
				655	uPVC door (65mmx215mm) polywood (PM1, PM2) (750mmx2100mm)in/c frame, shatter, hinges, clumps, hinges locks clumps	set	3,500.00
				656	uPVC door (75mmx215mm) polywood (PW1, PW2) (900mmx1950mm)in/c frame, shatter, hinges, clumps, hinges locks clumps	set	
				657	uPVC door (75mmx215mm) polywood (PM1, PM2)(750mmx1950mm) in/c frame, shatter, hinges, clumps, hinges locks clumps	set	3,350.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
658	uPVC door (75mmx215mm) Nobel (NB1) (750mmx1800mm)in/c frame, shatter, hinges, clumps, hinges locks clumps	set	3,250.00	693	1.5mm thick bronze colour aluminium closure cover(101.6mm)	m	167.28
659	uPVC door (85mmx215mm) polywood (PW1, PW2)Solide(900mmx2100mm) in/c frame, shatter, hinges, clumps, hinges locks clumps	set	6,250.00	694	4mm thick bronze colour aluminium floor bottom (101.6mm, 12.7mm)	m	469.66
660	uPVC door (85mmx215mm) polywood (PM1, PM2) solid(750mmx2100mm)in/c frame, shatter, hinges, clumps, hinges locks clumps	set	5,250.00	695	2.3mm thick bronze colour aluminium shutter top (51mm ,43.99mm)	m	458.58
661	uPVC door (95mmx215mm) polywood (PW1, PW2) solid (750mmx1950mm)in/c frame, shatter, hinges, clumps, hinges locks clumps	set	5,100.00	696	2.3mm thick bronze colour aluminium shutter bottom (82.6mm ,43.99mm)	m	560.10
662	uPVC door (95mmx215mm) polywood (PM1, PM2) normal(750mmx1800mm) in/c frame, shatter, hinges, clumps, hinges locks clumps	set	2,250.00	697	2.3mm-4mm thick bronze colour aluminium handle (101.6mm,38.1mm ,25.4mm)	m	618.67
663	70mm thick concrete hollow block of minimum compressive strength is 8.5 Mpa	each	24.00	698	Swing Door Closure	set	2,800.00
664	100mm thick concrete hollow block of minimum compressive strength is 8.5 Mpa	each	38.00	699	Swing Door Lock	set	700.00
665	140mm thick concrete hollow block of minimum compressive strength is 10 Mpa	each	45.00	700	Swing Door Mohiar	m	4.00
666	190mm thick concrete hollow block of minimum compressive strength is 10 Mpa	each	63.00	701	Fixed Neoprene	m	5.00
667	60mm thick Uni-Block, 25MPa, Colour-Gray	each	17.00	702	1.8mm Thick Silver Colour Aluminium Wall Frame(101.6mm,44.45mm,83.21mm)	m	449.06
668	60mm thick Uni-Block, 25MPa, Colour-Red/Black/any other Suitable Colour	each	19.00	703	2.3mm Thick Silver colour Aluminium shutter side (54mm,46mm)	m	446.39
669	60mm thick Uni-Block, 30MPa, Colour-Gray	each	18.00	704	0.99mm Thick Silver Colour Aluminium door glass bit (16.54mm,15.49mm)	m	48.16
670	10 holes machine made bricks	each	19.50	705	2.5mm Thick Silver Colour Aluminium Closure section (101.6mm,42.43mm)	m	424.99
671	305mm long Tower Bolt (Iron)	each	55.00	706	1.5mm Thick Silver Colour Aluminium Closure Cover (101.6mm)	m	162.44
672	200mm long socket Bolt (Iron)	each	20.00	707	4mm Thick Silver Colour Aluminium floor bottom (101.6mm,12.7mm)	m	455.45
673	63mm dia ring (Iron)	each	15.00	708	2.3mm Thick Silver Colour Aluminium shutter top (51mm,43.99mm)	m	444.83
674	25mm screws (Iron)	dzn	5.55	709	2.3mm Thick Silver Colour Aluminium Shutter Bottom (82.6mm,43.99mm)	m	542.92
675	305mm long Tower Bolt (Brass)	each	350.00	710	2.3mm - 4mm Thick Silver Colour Aluminium handle (101.6mm ,38.1mm ,25.4mm)	m	600.08
676	200mm long socket Bolt (Brass)	each	150.00	711	1.8mm Thick Bronze Colour Aluminium top and side (101.60mm,44.45mm)	m	584.05
677	63mm dia ring (Brass)	each	20.00	712	1.8mm Thick Silver Colour Aluminium top and side (101.60mm,44.45mm)	m	636.64
678	Brass Hinge (100mm)	each	150.00	713	1.8mm Thick Bronze Colour Aluminium bottom (101.35mm,44.45mm)	m	493.42
679	25mm Screws (Brass)	dzn	12.00	714	1.8mm Thick Silver Colour Aluminium bottom (101.35mm,44.45mm)	m	478.71
680	254mm long Tower Bolt (Iron)	each	40.00	715	1.5mm Thick Bronze Colour Aluminium bottom cover (44.32mm,19.6mm)	m	164.17
681	150mm long socket Bolt (Iron)	each	12.00	716	1.5mm Thick Silver Colour Aluminium bottom cover (44.32mm, 19.6mm)	m	117.14
682	75mm long hinges (Iron)	each	25.00	717	1.5mm Thick Bronze Colour Aluminium groove cover (83.21mm, 16mm)	m	236.78
683	225mm long catch hook (Iron)	each	8.00	718	1.5mm Thick Silver Colour Aluminium groove cover (83.21mm, 16mm)	m	229.98
684	254mm long Tower Bolt (Brass)	each	280.00	719	1.00mm Thick Bronze Colour Aluminium fixed glass protector (39.09mm,14.81mm)	m	76.88
685	150mm long socket Bolt (Brass)	each	130.00	720	1.00mm Thick Bronze Colour Aluminium fixed glass protector BIT (15.75mm,14.81mm)	m	56.82
686	75mm long hinges (Brass)	each	70.00	721	1.00mm Thick Silver Colour Aluminium fixed glass protector (39.09mm,14.81mm)	m	74.54
687	225mm long catch hook (Brass)	each	55.00	722	1.00mm Thick Silver Colour Aluminium fixed glass protector BIT (15.75mm,14.81mm)	m	55.15
688	Flat Iron Bar Clamp	kg	70.00	723	Flush Bolt	set	260.00
689	1.8mm thick bronze colour aluminium wall frame (101.6mm ,44.45mm,83.21mm)	m	462.71	724	1.5mm Thick Bronze Colour Aluminium outer bottom (75.5mm,17.79mm)	m	252.59
690	2.3mm thick Bronze colour aluminium shutter side(54mm ,46mm)	m	460.29				
691	0.99mm thick bronze colour aluminium door glass bit (16.54mm,15.49mm)	m	49.27				
692	2.5mm thick bronze colour aluminium closure section (101.6mm,42.93mm)	m	438.27				

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
725	1.5mm Thick Bronze Colour Aluminium outer top (75.5mm,26.8mm)	m	377.42	757	1.5mm Thick Bronze Colour Aluminium Casement outer (38.86, 38.86,36.63mm)	m	170.42
726	1.5mm Thick Bronze Colour shutter top (33, 26.8, 22mm)	m	225.57	758	1.5mm Thick Bronze Colour Aluminium Casement shutter (47.62,28.57,40.82mm)	m	297.27
727	1.5mm Thick Bronze Colour shutter bottom (60, 24.4mm)	m	339.18	759	1.245mm Thick Bronze Colour Aluminium shutter glass clip(15.87,27mm)	m	65.52
728	1.5mm Thick Bronze Colour Aluminium outer side (75.5mm,19.9mm)	m	255.34	760	25x25mm Bronze Colour Aluminium Pipe	m	60.49
729	1.5mm Thick Bronze Colour Aluminium Inter lock (34.40,32.1mm)	m	269.50	761	4-Bar Hinge	each	136.00
730	1.5mm Thick Bronze colour Aluminium shutter divider (31.75mm,22mm)	m	202.22	762	Casement Handle	each	190.00
731	Sliding Door Key Lock	set	100.00	763	1.5mm Thick Silver Colour Aluminium casement outer (38.86, 36.63mm)	m	164.72
732	Sliding Door Wheel	each	50.00	764	1.5mm Thick Silver Colour Aluminium casement shutter (47.62,28.57,40.82mm)	m	288.62
733	Sliding Door Mohiar	m	3.60	765	1.245mm Thick Silver Colour Aluminium shutter glass clip (15.87,27mm)	m	65.27
734	1.5mm Thick Bronze Colour Shutter Lock (49.2,26.0mm)	m	268.22	766	25x25mm Silver Colour Aluminium Pipe	m	58.46
735	1.5mm Thick Silver Colour Aluminium outer bottom (75.5,17.79mm)	m	245.61	767	1.5mm Thick Bronze Colour Aluminium bottom (76.2,38.1,57.15mm)	m	352.42
736	1.5mm Thick Silver Colour Aluminium outer top (75.5,26.8mm)	m	366.57	768	1.5mm Thick Bronze Colour Aluminium top and side (76.2,38.1,57.15mm)	m	433.85
737	1.5mm Thick Silver Colour Aluminium shutter top (35,26.8mm)	m	218.95	769	1.10mm Thick Bronze Colour Aluminium spandrel (106.00,6.20mm)	m	219.14
738	1.5mm Thick Silver Colour Aluminium shutter bottom (60,24.4mm)	m	328.89	770	Rivet (for aluminium works)	each	0.30
739	1.5mm Thick Silver Colour Aluminium outer side (75.5,19.9mm)	m	247.99	771	Screw (for aluminium works)	each	1.00
740	1.5mm Thick Silver Colour Aluminium shutter lock (49.2,26.0mm)	m	260.31	772	1.5mm Thick Silver Colour Aluminium bottom (76.2,38.1,57.15mm)	m	341.94
741	1.5mm Thick Silver Colour Aluminium Inter Lock (34.4, 32.1mm)	m	261.97	773	1.8mm Thick Silver Colour Aluminium groove cover (57.15,15.88mm)	m	168.53
742	1.5mm Thick Silver Colour Aluminium shutter divider (31.75mm,22.00mm)	m	215.54	774	1.8mm Thick Bronze Colour Aluminium Groove Cover (57.15,15.88mm)	m	201.17
743	1.5mm Thick Bronze Colour Aluminium sliding fixed side (31mm,26mm)	m	168.21	775	1.5mm Thick Silver Colour Aluminium top and side (76.2,38.1,57.15mm)	m	421.90
744	1.5mm Thick Silver Colour Aluminium sliding fixed side (31,26mm)	m	163.25	776	1.10mm Thick Silver Colour Spandrel (106.00,6.20mm)	m	214.72
745	1.4 - 1.5mm Thick Bronze Colour Aluminium spandrel (152.4,7.14mm)	m	268.04	777	1.5mm Thick Bronze Colour Aluminium bottom cover (31.78,17.4mm)	m	164.17
746	1.4 - 1.5mm Thick Silver Colour Aluminium spandrel (152.4,7.14mm)	m	259.95	778	1.5mm Thick Silver Colour Aluminium bottom Cover (31.78,17.4mm)	m	111.69
747	Sliding Neoprene	m	8.20	779	1.5mm Thick Bronze Colour Aluminium wall frame(76.2,38.1mm)	m	319.32
748	1.5mm Thick Bronze Colour Aluminium bottom cover (37.78,31.78mm)	m	164.17	780	1.25mm Thick Bronze Colour Aluminium Lover Section (55.02,37.39mm)	m	132.13
749	1.5mm Thick Silver Colour Aluminium bottom cover (37.78,31.78mm)	m	113.82	781	1.5mm Thick Bronze Colour Aluminium lover outer section (39.67,15.06mm)	m	129.01
750	1.8mm Thick Bronze Colour Aluminium bottom (76.2,38.1,57.15mm)	m	409.21	782	1.5mm Thick Silver Colour Aluminium wall frame (76.2,38.1mm)	m	309.40
751	1.8mm Thick Silver Colour Aluminium bottom (76.2,38.1,57.15mm)	m	396.72	783	1.5mm Thick Silver Colour Aluminium lover section (55.02,37.39mm)	m	128.66
752	1.5mm Thick Bronze Colour Aluminium groove cover (57.15,15.88mm)	m	156.42	784	1.5mm Thick Silver Colour Aluminium lover outer section (39.57,15.06mm)	m	124.80
753	1.5mm Thick Silver Colour Aluminium groove cover (57.15,15.88mm)	m	168.46	785	5mm Thick tinted glass	m2	860.00
754	1.8mm Thick Bronze Colour Aluminium top and side (76.2,38.1mm)	m	516.77	786	Rubber Gasket	m2	0.00
755	1.8mm Thick Silver Colour Aluminium top and side (76.2, 38.1mm)	m	501.69	787	Gum	gm	0.18
756	Neoprene	m	8.20	788	Blue	gm	0.13
				789	Colour Pigment	kg	125.00
				790	Cement Paint	kg	80.50
				791	Synthetic Polyvinyl Distemper	litre	117.50

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
792	Distemper Primer/sealer	litre	200.00	839	Cord weight	each	24.00
793	Plastic Emulsion paint	litre	267.58	840	Weight plate	each	11.50
794	Plastic Emulsion paint sealer/ Primer	litre	193.00	841	Plastic washer	each	1.20
795	Acrylic Emulsion paint	litre	214.29	842	Head cap set	each	37.00
796	Acrylic sealer/ primer	litre	192.50	843	Brackets	each	6.00
797	Sealer/Primer (for texture paint)	litre	210.00	844	Glass fiber fabric	m	175.00
798	Texture Paint	litre	230.00	845	Aluminium bottom rail	m	26.00
799	Paint for glossy finishing (Top coat)	litre	671.25	846	Bottom cap	each	43.00
800	Jensolin Chlorinated rubber paint	litre	588.00	847	Gear box	each	40.00
801	Synthetic enamel paint primer/ sealer	litre	215.00	848	Stick	each	61.00
802	Spirit	lb	100.00	849	Support end cap	each	50.00
803	Gala	chatak	87.50	850	Support and cord cap	each	36.50
804	Mostaki	seer	365.00	851	Cord lock	each	23.50
805	Karpa	chatak	40.00	852	Cord equalizer	each	19.00
806	Sand Paper	each	10.00	853	Top holder	each	24.00
807	Markin cloth	m	12.00	854	Ladder cord	m	11.80
808	Varnish (yacht)	litre	269.23	855	Aluminium foil	m	60.00
809	G.P thinner	litre	142.50	856	Chalk Powder	kg	25.00
810	Varnish (Egg shell)	litre	269.23	857	Arabian Gum	kg	330.00
811	Varnish (Matt)	litre	280.00	858	Fancy Screen	m2	300.00
812	12mm thick Plain Particle board	m2	360.00	859	Anti- corrosive paint (Epoxy paint)	liter	178.85
813	Aluminium 'T' bar frame/section	m2	280.00	860	Anti-Corrosive paint primer	liter	206.00
814	12mm thick gypsum board	m2	220.00	861	5mm thick ebonite sheet	m2	450.00
815	12mm thick Veneered board	m2	480.00	862	38mm screw	each	0.35
816	MS Rail	kg	65.00	863	0.46mm thick galvanized color CI sheet	bundle	8,200.00
817	18/20/22 BWG MS Sheet/plate	kg	75.00	864	0.46mm thick color plain iron ridging	m	270.00
818	Huskel dummy	each	26.00	865	Overhead water tank made with plastic (Gazi,Padma, etc)	litre	8.40
819	16mm MS Socket	esch	13.00	866	Liquid Brass Cleaner	each	117.00
820	24 SWG GP Sheet	kg	80.00	867	White Jute Mat	m	64.80
821	26 SWG GP Sheet	kg	80.00	868	Yellow & Jhama Stone	each	350.00
822	Spring (China)	m	65.00	869	Oxalic Acid	kg	250.00
823	Spring Box	each	145.00	870	Solvent Paste Wax	pkt	272.00
824	12 BWG 2Ply 4 point barbed wire	kg	55.00	871	Hessian Cloth	sqm	9.72
825	Aluminium Curtain rail	m	21.00	872	Air-Cooler (18000 BTU/hr)-Window Type	each	0.00
826	19mm dia 300mm long brass hasp bolt	each	160.00	873	MS Square bar 10 mm X 10 mm	kg	65.00
827	Hydraulic door closer (big size) (king brand)	each	2,000.00	874	MS Square bar 12 mm X 12 mm	kg	65.00
828	Magnetic door shock absorber	each	220.00	875	Hollow shutter	sqm	767.00
829	Corrugated brass angle	kg	265.00	876	Solid shutter	sqm	767.00
830	Aluminium head rail	m	25.00	877	SS Screw (40 mm long)	each	4.50
831	End cap set	each	33.00	878	SS Tower bolt	each	120.00
832	Rod till	m	10.00	879	SS handle	each	75.00
833	Sigger (Stopper)	each	8.00	880	SS pipe 50 mm dia 2.00mm thick	m	648.00
834	Runner	each	6.60	881	SS pipe 40 mm dia 1.50mm thick	m	372.00
835	Spacer (Link)	each	2.50	882	SS pipe 25 mm dia 1.50mm thick	m	246.00
836	Handling cord	m	6.00	883	Aluminium box 44 mm X 44 mm	m	280.93
837	Ball chain	m	12.50	884	Aluminium angle 25 mm X 25 mm	m	73.72
838	Link Chain	m	19.00				

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
885	Aluminium composite panel	sqm	1,560.00	925	Disk	each	660.00
886	Aluminium curtain wall sub mullium (100 mm X 50 mm X 2.0 mm)	m	1,198.76	926	Water proofing paper (12 size)	each	16.20
887	Aluminium casement outer frame (29 mm X 20 mm X 1.2 mm)	m	140.26	927	Water proofing paper (320 size)	each	19.80
888	Aluminium casement outer section (52 mm X 22 mm X 1.5 mm)	m	185.09	928	Acid stone	each	310.00
889	Aluminium angle (50 mm X 50 mm X 6.2 mm)	m	681.03	929	Malamine board (8mm thick) (8'x4' size)	sqm	625.00
890	Aluminium cover (50 mm X 6 mm X 1.5 mm)	m	123.35	930	Perforated gypsum board 9mm thick	sqm	205.00
891	Aluminium angle (50 mm X 6 mm X 1.5 mm) for casement shutter	m	187.25	931	Plastic wood (3mm thick sheet)	sqm	325.00
892	Aluminium curtain wall sub mullium (50 mm X 50 mm X 2.0 mm)	m	1,067.36	932	50mm screw	pack	
893	Aluminium frame 38 mmX 38 mm X 1.5 mm thickness(wall box)	m	134.82	933	Wall bit (9/64)	pcs	
894	Aluminium frame 38 mmX 12 mm X 1.5 mm thickness(netting shutter)	m	214.35	934	Super bit	pcs	
895	Mosquito net (plastic)	sqm	160.00	935	Sun star glue	liter	
896	5 mm thick ambushed/frosted glass	sqm	750.00	936	cloth	yard	
897	6 mm thick reflecting glass	sqm	980.00	937	Super glue	each	
898	10 mm thick tempered glass	sqm	2,600.00	938	Partition frame profile	m	
899	10 mm thick clear glass	sqm	1,560.00	939	Partition glass bit profile	m	
900	Aluminium frame 44 mmX 44 mm X 1.5 mm thickness(box)	m	101.43	940	Partition frame reinforcement	m	
901	18 mm thick Marble stone (Italian- CARRARA)	sqm	4,842.00	941	Rubber	m	
902	16 mm thick Marble stone (Italian- CARRARA)	sqm	4,519.00	942	5mm thick clear glass	sqm	753.00
903	14 mm thick Marble stone (Italian- CARRARA)	sqm	4,519.00	943	Steel clamp	each	
904	12 mm thick Marble stone (Italian- CARRARA)	sqm	4,304.00	944	Plastic wood (6mm thick)	sqm	
905	Weather coat	liter	348.33	945	Main tee- 25mm	m	
906	Sealer	liter	192.50	946	Cross tee- 25mm	m	
907	SS fittings for door	each		947	L- section- 25mm	m	
908	SS fittings for window	each		948	Wall bit	each	
909	Mortice door lock and key	each	500.00	949	Glass bricks	each	
910	1.5mm thick Fiber glass sheet	sqm	600.00	950	305mm long Tower bolt (SS)	each	
911	1.5 mm thick plain fiber glass ridging	m	255.00	951	200mm long socket bolt (SS)	each	
912	Sliding door lock for aluminum shutter	each	90.00	952	SS hinge	each	
913	Sliding window lock for aluminum shutter	each	45.00	953	63mm dia ring (SS)	each	
914	Swing door closer for aluminum shutter	each	3,000.00	954	25mm screw (SS)	dozn	
915	Swing door bottom lock of tempered glass	each	700.00	955	Handle (SS)	each	
916	Swing door lock for aluminum shutter	each	650.00	956	MS Angle 40mmx40mmx6mm	kg	65.00
917	Water reducing chemical admixture : Type-A	liter	130.00	957	MS Angle 25mmx25mmx6mm	kg	65.00
918	Retrading chemical admixture : Type-B	liter	125.00	958	Primer for bonding	liter	450.00
919	Accelerating chemical admixture : Type-C	liter	135.00	959	MS Angle 25mmx25mmx3mm	kg	65.00
920	Water-reducing and retrading chemical admixture : Type-D	liter	125.00	960	MS Angle 20mmx20mmx3mm	kg	65.00
921	Water-reducing and accelerating chemical admixture : Type-E	liter	135.00	961	MS F.I bar 25mmx3mm	kg	65.00
922	Water-reducing high range chemical admixture : Type-F	liter	160.00	962	MS F.I bar 20mmx3mm	kg	65.00
923	Water-reducing high range and retrading chemical admixture : Type-G	liter	160.00	963	MS F.I bar Tee 50mmx6mm	kg	65.00
924	Water proofing membrane	sqm	485.00	964	SS pipe 50mm dia (2mm thick)	m	650.00
				965	SS pipe 25mm dia (2mm thick)	m	487.00
				966	SS pipe 20mm dia (2mm thick)	m	314.00
				967	SS Cap	each	235.00
				968	25mmx6.25mm flat bar	kg	65.00
				969	5mm thick MS flat bar	kg	65.00
				970	MS Hollow box 12mmx12mm (thickness 16 gauge)	m	58.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
971	Glazed wall tiles more than 300mmx450mm and less than 300mmx500mm in size or equivalent	sqm	677.88	1007	300mmx210mmx25mm high load bearing pavers	each	43.00
972	Glazed wall tiles more than 300mmx500mm size or equivalent	sqm	817.76	1008	Silty Soil	cum	235.00
973	GP (Homogeneous) 600x600 mm size glazed floor tiles	sqm	1,237.40	1009	Cow dung	cum	630.00
974	Pasting tiles adhesives	kg	20.00	1010	Lawn grass	sqm	2.50
975	Tiles grout/Joint filler	kg	110.00	1011	Urea Fertilizer	kg	25.00
976	Automatic machine made 1st class bricks	no	10.50	1012	Muli Bamboo	each	80.00
977	Fancy screen block: 110mmx110mmx110mm size	each	32.90	1013	MS Square bar 25mmx25mm/20mmx20mm	kg	65.00
978	Fancy screen block: 140mmx140mmx100mm size	each	38.50	1014	Outdoor flower plants	each	70.00
979	Fancy screen block: 150mmx150mmx100mm size	each	41.80	1015	Indoor flower plants	each	60.00
980	Desalt-S01	liter	370.00	1016	Burned clay tub 200mm-250mm size	each	40.00
981	Foam Lub	liter	245.00	1017	Aluminum Z-lover 100mm, 1mm thick Bronze colour	m	214.92
982	Hydro-Seal Ef-34	liter	518.00	1018	Aluminum Z-lover outer section 60mmx18mm, 1.2mm thick Bronze colour	m	129.01
983	Foam Lub (Meta)	liter	245.00	1019	Aluminum fitting angle 30mmx30mm, 3mm thick	m	265.06
984	Fancy screen Block: 200mmx200mmx105mm size	each	52.80	1020	Aluminum rectangular box lover 25mmx100mm, 1mm thick Bronze colour	m	366.42
985	Fancy screen Block: 200mmx115mmx100mm size	each	52.80	1021	Aluminum rectangular outer section 25mmx100mm, 1mm thick Bronze colour	m	366.42
986	90mm thick Concrete Hollow Block of minimum compressive strength 8.5 Mpa	each	35.00	1022	MS Hollow box 20mmx20mm of thickness 16 gauge	m	94.00
987	Roof Tiles of 125mmx170mm size (MCW, KCL-RF1), Red colour	each	31.75	1023	MS Hollow box 25mmx25mm of 3mm thick	m	117.00
988	Roof Tiles: 200x200mm (Round-MCW-Design No.24 or equivalent)	each	56.00	1024	MS Hollow box 40mmx40mm of 3mm thick	m	140.00
989	Thinner T-6 of Synthetic Enamel Paint	liter	130.00	1025	MS Hollow box 50mmx50mm of 3mm thick	m	230.00
990	Thinner T-4 of Ready Mixed Road Marking Paint	liter	212.50	1026	MS Hollow box 75mmx75mm of 3mm thick	m	275.00
991	18mm thick Marble stone (Indian)	sqm	3,825.00	1027	Ceramic Bricks (200x100x16.51mm)	each	25.50
992	16mm thick Marble stone (Indian)	sqm	3,450.00	1028	300mmx300mmx25mm high load bearing parking Tiles	sqm	452.00
993	14mm thick Marble stone (Indian)	sqm	3,240.00	1029	75mm dia. MS pipe and wall thickness 4.00mm	m	892.00
994	12mm thick Marble stone (Indian)	sqm	3,060.00	1030	50mm dia. MS pipe and wall thickness 4.00mm	m	534.00
995	Ready mixed wall Putty	kg	74.20	1031	25mm dia. MS pipe and wall thickness 2.90mm	m	246.00
996	200mmx100mm size Roof Tiles-Ridge	each	34.50	1032	20mm dia. MS pipe and wall thickness 2.65mm	m	177.00
997	200mmx62mmx16mm size Wall Tiles Red colour	each	18.50	1033	50mmx50mmx50mm (N.D) equal Tee	each	200.00
998	200mmx62mmx12mm size Wall Tiles Peach colour	each	36.00	1034	50mmx50mmx25mm (N.D) reducing Tee	each	224.00
999	200mmx62mmx12mm size Wall Tiles Beige colour	each	21.00	1035	25mmx25mmx25mm (N.D) equal Tee	each	127.00
1000	231mmx69mmx12mm size Wall Tiles Red colour	each	26.00	1036	50mmx90 degree elbow	each	164.00
1001	231mmx69mmx12mm size Wall Tiles Grey colour	each	30.50	1037	25mmx90 degree elbow	each	48.00
1002	231mmx69mmx12mm size Wall Tiles Beige colour	each	28.00	1038	50mmx25mm 45 degree elbow	each	71.00
1003	225mmx100mmx16mm size Wall Tiles Red colour	each	28.00	1039	50mmx25mm reducer	each	79.00
1004	150mmx150mmx20mm high load bearing pavers	each	24.50	1040	20mm plug, socket	each	198.00
1005	230mmx80mmx20mm high load bearing pavers	each	19.75	1041	50mmx20mm saddle	each	173.00
1006	150mmx80mmx20mm high load bearing pavers	each	19.75	1042	50mm dia end cap	each	74.00
				1043	25mm dia end cap	each	64.00
				1044	50mmx50mm Valve Tee	each	14,000.00
				1045	50mmx25mm Valve Tee	each	1,200.00
				1046	50mmx25mm service Tee	each	2,800.00
				1047	25mmx25mm service Tee	each	1,500.00
				1048	Gas Bumer (Double)	each	3,500.00
				1049	4"x400' Black Tape	Roll	5,300.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1050	2"x200" Black Tape	Roll	1,146.00	1086	Glazed wall tiles of size 300 mm x 600 mm with matching floor tiles, décor and border of foreign (China or Asia equivalent) made	sqm	1,600.00
1051	80mm thick Uni-Block, 40MPa, Colour-Gray	each	25.00	1087	Ornamental Glazed wall tiles 400mmx2440mm (each set) or more than in size or equivalent	sqm	1,865.00
1052	80mm thick Uni-Block 35MPa, Colour-Red/Black/any other Suitable Colour	each	26.00	1088	10mm thick Marble (Italian - CARRARA)	sqm	3,200.00
1053	80mm thick Uni-Block, 35MPa, Colour-Gray	each	24.00	1089	Dressing Table 800Lx400Wx1730HMM OF DTDB002LB	each	7,770.00
1054	80mm thick Uni-Block 30MPa, Colour-Red/Black/any other Suitable Colour	each	25.00	1090	Dressing Table 600Lx400Wx1700HMM OF DTDB013LB	each	9,200.00
1055	80mm thick Uni-Block, 30MPa, Colour-Gray	each	23.00	1091	Dressing Table 611LX400WX1800HMM OF DTDPO27WD	each	21,980.00
1056	60mm thick Uni-Block 35MPa, Colour-Red/Black/any other Suitable Colour	each	21.00	1092	Senior Officer Table MDF/EW (size:1800Lx850Wx750Hmm) of TMOP013WD	each	123,340.00
1057	60mm thick Uni-Block, 35MPa, Colour-Gray	each	19.00	1093	Conference Table- Corner (size: 625Lx625Wx750Hmm) of TCOP004LB	each	5,110.00
1058	60mm thick Uni-Block 30MPa, Colour-Red/Black/any other Suitable Colour	each	20.00	1094	Conference Table- Short Middle LB (size: 600Lx600Wx750Hmm)- TCOP001LB	each	4,890.00
1059	Solid Concrete Bricks of Size (240x110x70)mm to (215x100x70)mm	sqm	651.16	1095	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) of TCOP002LB	each	7,770.00
1060	Engraved cement concrete tiles (250 x 250 x 24mm) Gray coloured	sqm	480.00	1096	Conference Table- Long Middle LB (size: 1400Lx600Wx750Hmm) of TCOP003LB	each	8,110.00
1061	Engraved cement concrete tiles (250 x 250 x 24mm) Coloured	sqm	560.00	1097	Conference Table- (size: 3000Lx1200Wx760Hmm) of TCOP022LB	each	29,900.00
1062	18 mm thick black or approved colour polished granite (Italian -CARRARA)	sqm	4,800.00	1098	Round Table- (size: 1200Lx1200Wx725Hmm) of TCOP015LB	each	13,770.00
1063	Ceramic paver tiles 300mm x 300mm size	sqm	444.44	1099	Multipurpose shelf beech colour (size : 1200Lx400Wx1800Hmm) of MSCP005LB	each	15,540.00
1064	Fairface U type saucer drain block 400mmx 300mmx 150mm size of 15 Mpa	each	180.00	1100	Multipurpose shelf beech colour (size : 800Lx400Wx1800Hmm) of MSCP004LB	each	12,440.00
1065	M.S. Z section19mmx19mmx19mmx3mm	kg	65.00	1101	Swivel Chair high back with handle (executive type) of CSPP005/CSPP005	each	21,650.00
1066	Granular Powder-CP2 LGT	kg	40.00	1102	Swivel Chair high back with handle (semi-executive type) of CSEP085	each	15,880.00
1067	Water replent-Moya shield-SR	liter	700.00	1103	Swivel Chair medium back with handle of CSEP062	each	1,110.00
1068	MS square box 40mmx40mmx4mm size	kg	85.00	1104	Armless chair standard fancy light of CFDP001	each	3,220.00
1069	MS square box 25mmx25mmx4mm size	kg	85.00	1105	Armless chair wooden light of FCF2310MG	each	2,590.00
1070	SS pipe 20mm dia (1mm thick)	m	125.00	1106	Auditorium fixed Chair of CFAP003	each	11,100.00
1071	12mm thick Black Granite (Italian - CARRARA)	sqm	4,200.00	1107	Auditorium fixed Chair of FCA 2412	each	9,128.00
1072	18mm thick Black Granite (Indian)	sqm	3,900.00	1108	Auditorium fixed Chair of FCA2413	each	6,500.00
1073	12mm thick Black Granite (Indian)	sqm	3,060.00	1109	MS Bed L2130xW915XH750mm size	each	10,400.00
1074	10mm thick Black Granite (Indian)	sqm	2,475.00	1110	62mmx150mmx1.5mm MS box	kg	95.00
1075	10mm thick Marble (Indian)	sqm	2,530.00	1111	25mmx25mmx1.5mm MS square box	m	110.00
1076	Decor tiles (Bangladeshi)	sqm	1,050.00	1112	40mmx40mmx2mm MS square box	m	190.00
1077	Matt or rustic 600 mm x 600 mm size floor tiles of minimum 9.8 thick mm of foreign made(China/equivalent) made	sqm	1,800.00	1113	Vim powder or equivalent	kg	90.00
1078	GP 300 mm x 600 mm stair tiles (Bangladeshi)	sqm	1,050.00	1114	Vim liquid or equivalent	liter	150.00
1079	Rustic or mat stair tiles (Bangladeshi)	sqm	950.00	1115	Trix liquid or equivalent	liter	200.00
1080	Rustic or mat stair tiles foreign (China or Asia equivalent) made	sqm	1,010.00	1116	Nylon or plastic brush	each	130.00
1081	GP (mirror polished) 500 mm x 500 mm floor tiles (Bangladeshi)	sqm	950.00	1117	Soft Moph	each	72.00
1082	GP (mirror polished) 800 mm x 800 mm floor tiles (Bangladeshi)	sqm	1,170.00	Water Control Structure			
1083	GP (mirror polished) 600 mm x 900 mm (Bangladeshi)	sqm	1,410.00	1118	Steel Sheet Pile	kg	103.40
1084	Mirror polish 600 mm x 600 mm floor tiles foreign (China or Asia equivalent) made	sqm	1,340.00	1119	Threaded Shaft (D=63mm, L=6m)	each	14,516.00
1085	Mirror polish 800 mm x 800 mm floor tiles foreign (China or Asia equivalent) made	sqm	1,600.00	1120	Bronze Lift nut (D=146mm, L=200mm)	each	11,200.00
				1121	Bevel Gear (315 BHN Steel, D=306mm)	each	5,302.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate
1122	Thrust Bearing out (D=184, BHN=625)	each	4,700.00
1123	MS Hex. Stop Nut (D=63mm)	each	1,109.00
1124	MS Bevel Pinion & Shaft (D=75mm, 15T)	each	2,740.00
1125	CI Spur Pinion (D=300mm, 60T)	each	3,745.00
1126	MS Spur Pinion ((D=300mm, 15T)	each	1,483.00
1127	CI Gear Cover (D=381mm, H=63mm)	each	2,053.00
1128	CI Bowl (D=419mm)	each	9,967.00
1129	Bronze Lock Washer (D=73mm, T=3mm)	each	210.00
1130	MS Crank	each	1,302.00
1131	MS Pedestal (D=200/250mm, L=760mm)	each	8,103.00
1132	CI Wall Bracket	each	2,478.00
1133	CI Hand Wheel out (D=760mm)	each	10,185.00
1134	CIB Cover Top (D=190, T=21, H=106mm)	each	5,746.00
1135	Bronze Lift Nut (D=105mm, H=222mm)	each	8,400.00
1136	MS Lift Screw (D=18, L=1825mm)	each	3,307.00
1137	MS Pedestal Welded (D=140mm, L=680mm, T=6mm)	each	2,625.00
1138	CI Bearing Plate (D=267mm, T=20mm)	each	1,498.00
1139	Tapered Roller Bearing (SKF No-50216)	each	1,630.00
1140	Rubber Seal (W=75mm, T=12mm, B=25mm)	m	861.00
1141	Nuts & Hinge Pin Hex. Head (ss, 25mmx150mm)	each	1,725.00
1142	Caked Cement	m3	1,620.00
1143	Straw Bundle	each	70.00
1144	Brush Wood Bundle	each	62.00
1145	PVC water stop (3 bulb type)	m	651.00
1146	MS flange for 315mm dia pipe	each	
1147	300mm uPVC Pipe -7.8mm wall thickness	m	4,032.00
1148	600mm uPVC Pipe	m	9,072.00
1149	900mm uPVC Pipe	m	11,340.00
1150	Main Rubber Bag (10mm Thickness)	sqm	17,022.00
1151	Main Rubber Bag (11mm Thickness)	sqm	17,483.00
1152	Main Rubber Bag (12mm Thickness)	sqm	18,058.00
1153	Main Rubber Bag (13mm Thickness)	sqm	18,748.00
1154	Rubber Foam Sheet	sqm	4,531.50
1155	Rubber Base Cover Sheet (8-10mm Thickness)	sqm	1,785.90
1156	Rubber Protect Sheet	sqm	5,365.80
1157	Rubber Glue	kg	472.20
1158	160mm dia PVC Bend,wall thickness2.5mm&1.52m Length	each	1,041.00
1159	180mm dia PVC Bend,wall thickness2.8mm&1.52m Length	each	1,271.00
1160	200mm dia PVC Bend,wall thickness3.2mm&1.52m Length	each	1,549.00
1161	225mm dia PVC Bend,wall thickness3.5mm&1.52m Length	each	1,877.00
1162	250mm dia PVC Bend,wall thickness3.9mm&1.52m Length	each	2,342.00
1163	280mm dia PVC Bend,wall thickness4.4mm&1.52m Length	each	2,953.00

SL No	Basic Item	Unit	Rate
1164	315mm dia PVC Bend,wall thickness4.9mm&1.52m Length	each	3,836.00
1165	355mm dia PVC Bend,wall thickness5.6mm&1.52m Length	each	4,825.00
1166	400mm dia PVC Bend,wall thickness6.3mm&1.98m Length	each	7,192.00
1167	450mm dia PVC Bend,wall thickness7.0mm&1.98m Length	each	8,780.00
1168	500mm dia PVC Bend,wall thickness7.8mm&1.98m Length	each	10,800.00
1169	160mm dia PVC end Cap, wall thickness 2mm &0.56m Length	each	499.00
1170	180mm dia PVC end Cap, wall thickness 2.3mm &0.56m Length	each	571.00
1171	200mm dia PVC end Cap, wall thickness 2.5mm &0.56m Length	each	638.00
1172	225mm dia PVC end Cap, wall thickness 2.8mm &0.56m Length	each	829.00
1173	250mm dia PVC end Cap, wall thickness 3.1mm &0.56m Length	each	927.00
1174	280mm dia PVC end Cap, wall thickness 3.5mm &0.56m Length	each	1,124.00
1175	315mm dia PVC end Cap, wall thickness 4.0mm &1.42m Length	each	2,893.00
1176	355mm dia PVC end Cap, wall thickness 4.4mm &1.42m Length	each	3,658.00
1177	400mm dia PVC end Cap, wall thickness 5.0mm &1.42m Length	each	4,586.00
1178	450mm dia PVC end Cap, wall thickness 5.6mm &1.42m Length	each	5,667.00
1179	500mm dia PVC end Cap, wall thickness 6.2mm &1.42m Length	each	6,934.00
1180	PVC Pipe: External Dia 160mm & wall thickness 3.20mm	m	511.00
1181	PVC Pipe: External Dia 180mm & wall thickness 3.60mm	m	634.00
1182	PVC Pipe: External Dia 200mm & wall thickness 4.00mm	m	761.00
1183	PVC Pipe: External Dia 225mm & wall thickness 4.40mm	m	1,136.00
1184	PVC Pipe: External Dia 250mm & wall thickness 4.90mm	m	1,209.00
1185	PVC Pipe: External Dia 280mm & wall thickness 4.90mm	m	1,491.00
1186	PVC Pipe: External Dia 315mm & wall thickness 4.90mm	m	1,936.00
1187	PVC Pipe: External Dia 355mm & wall thickness 5.60mm	m	2,441.00
1188	PVC Pipe: External Dia 400mm & wall thickness 6.30mm	m	3,018.00
1189	PVC Pipe: External Dia 450mm & wall thickness 7.00mm	m	3,696.00
1190	PVC Pipe: External Dia 500mm & wall thickness 7.80mm	m	4,469.00
1191	PVC T-Joints:160mmx160mmx160mm, Wall thickness 2.5mm&1.47 Length	each	1,376.00
1192	PVC T-Joints:180mmx180mmx180mm, Wall thickness 2.8mm&1.47 Length	each	1,601.00
1193	PVC T-Joints:200mmx200mmx200mm, Wall thickness 3.2mm&1.47 Length	each	1,860.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1194	PVC T-Joints:225mmx225mmx225mm, Wall thickness 3.50mm&1.47 Length	each	2,249.00	1233	400mm dia MS gate valve	each	58,800.00
1195	PVC T-Joints:250mmx250mmx250mm, Wall thickness 3.90mm&1.47 Length	each	2,755.00	1234	355mm dia MS gate valve	each	52,920.00
1196	PVC T-Joints:280mmx280mmx280mm, Wall thickness 4.4mm&1.47 Length	each	3,382.00	1235	315mm dia MS gate valve	each	47,250.00
1197	PVC T-Joints:315mmx315mmx315mm, Wall thickness 4.90mm&1.47 Length	each	4,268.00	1236	280mm dia MS gate valve	each	40,425.00
1198	PVC T-Joints:355mmx355mmx355mm, Wall thickness 5.6mm&1.98 Length	each	6,569.00	1237	250mm dia MS gate valve	each	36,750.00
1199	PVC T-Joints:400mmx400mmx400mm, Wall thickness 6.30mm&2.29Length	each	8,755.00	1238	225mm dia MS gate valve	each	35,280.00
1200	PVC T-Joints:450mmx450mmx450mm, Wall thickness 7.0mm&2.67Length	each	11,936.00	1239	MS flange for 500mm dia pipe	each	3,990.00
1201	PVC T-Joints:500mmx500mmx500mm, Wall thickness 7.80mm&2.67Length	each	14,654.00	1240	MS flange for 450mm dia pipe	each	3,675.00
1202	Fibre reinforced uPVC Lay-Flat hose,77mm dia wall thickness 1.36mm &weight 0.503 kg/m	m	131.00	1241	MS flange for 400mm dia pipe	each	3,360.00
1203	Fibre reinforced uPVC Lay-Flat hose,103mm dia wall thickness 1.40mm &weight 0.664 kg/m	m	179.00	1242	MS flange for 355mm dia pipe	each	2,835.00
1204	Fibre reinforced uPVC Lay-Flat hose,153mm dia wall thickness 2.0mm &weight 1.06 kg/m	m	311.00	1243	MS flange for 280mm dia pipe	each	2,625.00
1205	18 BWG GI Wire Net	sqm	160.00	1244	MS flange for 250mm dia pipe	each	2,310.00
1206	3 phase 440V 30hp centrifugal pump and motor	Set		1245	MS flange for 225mm dia pipe	each	2,100.00
1207	M.S Football	No	5,050.00	1246	MS flange for 200mm dia pipe	each	1,890.00
1208	Hose Pipe 100mm dia	m	590.00	1247	200mm dia MS gate valve	each	32,550.00
1209	MS Plate (16mm)	kg	80.00	1248	500mm dia drasser	no	7,560.00
1210	Nut & Bolt	Set		1249	450mm dia drasser	no	7,140.00
1211	200mm Flanks 10K	each	560.00	1250	400mm dia drasser	no	6,825.00
1212	Rubber Washer	each	40.00	1251	355mm dia drasser	no	6,300.00
1213	MS Bend (200mm dia.)	each	2,000.00	1252	315mm dia drasser	no	5,775.00
1214	Ms Gate Valve,200mm dia	each	15,000.00	1253	280mm dia drasser	no	5,250.00
1215	200mm dia Flexible Pipe joint	each	8,000.00	1254	250mm dia drasser	no	4,725.00
1216	Dresser 200mm dia	each	1,500.00	1255	225mm dia drasser	no	4,515.00
1217	Reducer Pipe 150-200mm dia	each	1,200.00	1256	200mm dia drasser	no	4,200.00
1218	MS Check valve 200mm dia	each	7,000.00	1257	Rubber sheet (felt) 12 mm thick	sqm	2,501.00
1219	Steel fall board	each	10,000.00	1258	Rubber sheet (felt) 25 mm thick	sqm	5,040.00
1220	Manhole cover 500mm dia	Set	6,000.00	1259	Rubber sheet 5.0mm thick	sqm	1,041.00
1221	Rubber Chanel cap	m	180.00	1260	Toluine (Chemicals to liquify glue and Cleaning)	liter	105.00
1222	Rubber cork	each	25.00	1261	MS Pipe (400mm internal dia with 6mm wall thickness)	m	7,140.00
1223	200mm PVC pipe 12mm Thickness	m	2,460.00	1262	MS Pipe (450mm internal dia. with 6mm wall thickness)	m	9,817.00
1224	MS Pipe 200mm dia Tee	each	5,000.00	1263	MS Pipe (600mm internal dia. With 7mm wall thickness)	m	13,125.00
1225	MS Pipe (150mm dia)	m		1264	MS T-Joint (600mm X 450mm X 450mm)	each	16,012.00
1226	2-part Polysulphide Sealer or Butyl Mastic Sealant or Similar approved	kg	1,575.00	1265	MS Bend (150mm dia.)	each	2,625.00
1227	Royal bolt	each	25.00	1266	MS Mala Bend (150mm dia.)	each	2,940.00
1228	Coupler (Min. Outer diameter 70mm & Length 240mm) including wastage 2% & carrying	each	400.00	1267	MS Mala Bend (200mm dia.)	each	3,795.00
1229	Coupler (Min. Outer diameter 56mm & Length 192mm) including wastage 2% & carrying	each	240.00	1268	Gate Valve (150mm dia.)	each	19,425.00
1230	Coupler (Min. Outer diameter 45mm & Length 150mm) including wastage 2% & carrying	each	160.00	1269	MS flange (150mm dia.)	each	1,470.00
1231	500mm dia MS gate valve	each	69,825.00	1270	Drasser (150mm dia.)	each	3,675.00
1232	450mm dia MS gate valve	each	64,680.00	1271	MS Perforated Foot Valve (150mm dia)	each	4,725.00
				1272	MS Perforated Foot Valve (200mm dia)	each	5,880.00
				1273	First Aid Box	each	2,940.00
				1274	Safety jacket	each	1,260.00
				1275	Safety hand gloves	each	367.00
				1276	Safety Shoe	each	1,575.00
				1277	Safety Helmate	each	525.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate

Sanitary & Tubewell Works

1278	100mm dia GI pipe with socket(3.65mm Thick)	m	1,492.00
1279	100mm dia PVC pipe (3.4mm to 4.0mm thick of Aziz/Lira/National/Polymar)	m	252.00
1280	40mm dia GI pipe of 2.9mm wall thick	m	422.75
1281	50mm dia GI pipe of 2.9mm wall thick	m	508.25
1282	50mm PVC Pipe-2.5mm to 3mm wall thick	m	115.93
1283	75mm PVC Pipe -2.9mm to 3.4mm wall thick	m	200.00
1284	19mm dia GI Pipe (2mm thick)	m	190.00
1285	12mm dia GI Pipe (2mm thick)	m	135.00
1286	1.54mm thick 16mm inner dia PVC pipe	m	32.77
1287	1.54mm thick 20mm inner dia PVC pipe	m	45.14
1288	100mm dia CI grating	each	99.90
1289	BISF standard white porcelain commode (Model-106A, size-475x350x435mm, Bowl size-350x280x350mm)	each	1,155.00
1290	10.00 Liter Capacity low down cistern (Model-403, size-530x215x370mm),(white vitress china)	each	1,078.00
1291	Heavy type ebonite plastic seat cover	each	650.00
1292	12mm dia plastic pipe with nipple	each	61.50
1293	12mm dia C.P stop cock	each	950.00
1294	BISF Standard Coloured porcelain commode (Model-106A, size-475x350x435mm, Bowl size-350x280x350mm)	each	1,214.00
1295	BISF Standard special coloured Porcelain commode (Model-106A, size-475x350x435mm, Bowl size-350x280x350mm)	each	1,274.00
1296	BISF Standard white porcelain long pan (Model-320, size-540x425x270mm, Bowl size-390x210x190mm) with foot rest	each	790.00
1297	13.6 liter capacity C.I Cistern	each	
1298	CI Bracket	pair	150.00
1299	40mm dia PVC flush Pipe with 1.83m long brass coupling	each	125.00
1300	12mm dia heavy type brass stop cock	each	700.00
1301	BISF Standard coloured porcelain long pan (Model-320, size-540x425x270mm, Bowl size-390x210x190mm) with foot rest	each	830.00
1302	BISF Standard special coloured porcelain long pan (Model-320, size-540x425x270mm, Bowl size-390x210x190mm) with foot rest	each	872.00
1303	BISF Standard simple type white porcelain long pan (Model-323, size-520x290x260mm)	each	581.00
1304	Porcelain Siphon (Low down)	each	1,100.00
1305	BISF Standard simple type coloured porcelain long pan (Model-323, size-520x290x260mm)	each	611.00
1306	BISF Standard simple type white porcelain long pan (Model-314E, size-525x295x285mm, Bowl size-410x225x170mm)	each	421.00
1307	Standard size plastic low down cistern (Bangladeshi)	each	1,350.00
1308	BISF standard white porcelain foot rest (Model-305, size-280x140x30mm)	pair	74.00
1309	BISF Standard coloured porcelain foot rest (Model-305, size-280x140x30mm)	pair	80.00

SL No	Basic Item	Unit	Rate
1310	White wash hand basin (Model-213, size-450x405x180mm, Bowl size-375x275x136mm)	each	578.00
1311	12mm dia CP pillar cock	each	1,200.00
1312	44mm dia PVC waste water pipe with 750mm long brass coupling	each	200.00
1313	12mm dia CP stop cock with nipple	each	1,010.00
1314	CP chain with plug	each	95.00
1315	30mm dia CP basin waste with brass coupling	each	450.00
1316	Coloured wash hand basin (Model-213, size-450x405x180mm, Bowl size-375x275x136mm)	each	607.00
1317	Special coloured wash hand basin (Model-213, size-450x405x180mm, Bowl size-375x275x136mm)	each	637.00
1318	White wash hand cabinet basin (Model-216, size-500x450x210mm)	each	1,158.00
1319	30mm dia CP basin waster with chain plug	each	395.00
1320	Coloured wash hand cabinet basin (Model-216, size-500x450x210mm)	each	1,216.00
1321	Special coloured wash hand cabinet basin (Model-216, size-500x450x210mm)	each	1,277.00
1322	White wash hand cabinet basin (Model-214, size-465x340x180mm)	each	525.00
1323	Coloured wash hand cabinet basin (Model-214, size-465x340x180mm)	each	552.00
1324	Special coloured wash hand cabinet basin (Model-214, size-465x340x180mm)	each	578.00
1325	White Pedestal (Model-715A, size-670x186x170mm)	each	577.00
1326	Coloured pedestal (Model-715A, size-670x186x170mm)	each	606.00
1327	Special Coloured pedestal (Model-715A, size-670x186x170mm)	each	637.00
1328	White pedestal (Model-715, size-670x186x170mm)	each	577.00
1329	Coloured pedestal (Model-715)	each	606.00
1330	Special coloured pedestal (Model-715)	each	577.00
1331	White porcelain standing urinal (Model-603, size-485x360x290mm, Bowl size-300x255x245mm)	each	820.00
1332	Coloured porcelain standing urinal (Model-603, size-485x360x290mm, Bowl size-300x255x245mm)	each	970.00
1333	White porcelain flat urinal (Model-602A, size-510x380x85mm, Bowl size-210x260x46mm)	each	756.00
1334	CI Automatic cistern (3.50 Liter capacity)	each	0.00
1335	Coloured porcelain flat Urinal (Model-602A, size-510x380x85mm, Bowl size-210x260x46mm)	each	795.00
1336	White porcelain Sink (Model-502, size-635x480x195mm)	each	1,760.00
1337	40mm dia CP waste with brass coupling including CP chain plug	set	280.00
1338	40mm dia PVC waste water pipe with 750mm long brass coupling	each	70.00
1339	12mm dia CP bib cock	each	715.00
1340	Coloured porcelain sink (Model-502, size-635x480x195mm)with sink tray (595x465x36mm)	each	1,848.00

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SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1341	White porcelain sink (635x480x195mm) with sink tray (595x465x36mm)	each	1,760.00	1381	20mm dia plastic bib cock with heavy iron thread	each	140.00
1342	Stainless steel sink with sink tray (1050mmx450mm)	each	2,500.00	1382	20mm dia brass stop cock	each	650.00
1343	Stainless steel sink with sink tray (750x460mm)	each	2,300.00	1383	12mm dia brass stop cock	each	450.00
1344	White Soap tray (150x110x40mm)	each	130.00	1384	20mm dia CP stop cock	each	930.00
1345	Coloured soap tray (150x110x40mm)	each	140.00	1385	12mm dia CP concealed stop cock	each	865.00
1346	White porcelain toilet paper holder (150x150x126mm)	each	450.00	1386	12mm dia special quality CP concealed stop cock	each	895.00
1347	Special coloured porcelain toilet paper holder (150x150x126mm)	each	290.00	1387	12mm dia fancy best quality CP concealed stop cock	each	945.00
1348	Stainless steel toilet paper holder (150x150x126mm)	each	400.00	1388	12mm dia CP pillar cock (best quality)	each	1,200.00
1349	Plastic toilet paper holder (150x150x126mm)	each	160.00	1389	12mm dia CP pillar cock (special quality)	each	1,150.00
1350	5mm thick glass plate shelf (600x125mm) with CP Brackets (Super quality)	each	470.00	1390	125mm dia CP shower rose (best quality)	each	1,150.00
1351	5mm thick glass plate shelf (600x125mm) with CP brackets (Medium quality)	each	380.00	1391	125mm dia CP shower rose (special quality)	each	875.00
1352	CP Towel rail (600x20mm) with CP holder (super quality)	each	625.00	1392	125mm dia CP moveable shower rose (special quality)	each	1,100.00
1353	CP Towel rail (600x20mm) with CP holder (Medium quality)	each	380.00	1393	50mm dia GM peat valve	each	1,150.00
1354	Mirror (450x350mm) with hard board back (Japan)	each	400.00	1394	40mm dia GM peat valve	each	850.00
1355	Mirror (450x380mm) with hard board back (Belgium)	each	380.00	1395	30mm dia GM peat valve	each	660.00
1356	1.83m long 100mm dia HCl soil pipe	each	2,300.00	1396	25mm dia GM peat valve	each	390.00
1357	100mm dia HCl Junction	each	680.00	1397	20mm dia GM peat valve	each	290.00
1358	10mm dia HCl plain bend	each	350.00	1398	12mm dia GM peat valve	each	225.00
1359	100mm dia HCl cowl	each	125.00	1399	Overhead water tank made with 16 gauge GI sheet (1200x1200x1200mm)	each	8,640.00
1360	HCl Extra bend	each	380.00	1400	12mm dia ball cock	each	160.00
1361	3.4 to 4mm thick 100mm dia PVC 'B' class pipe	m	307.50	1401	Fiber glass spherical type water tank (1800 liters capacity)	each	13,262.40
1362	1.83m long 50mm dia HCl pipe	each	365.00	1402	0.5mm thick stainless steel cylindrical type water tank (500 liters capacity)	each	7,614.00
1363	50mm dia HCl cowl	each	60.00	1403	0.6mm thick stainless steel cylindrical type water tank (1500 litres capacity)	each	21,060.00
1364	50mm dia HCl bend	each	180.00	1404	0.7mm thick stainless steel cylindrical type water tank (2000 liters capacity)	each	27,540.00
1365	3.66m long 50mm dia PVC pipe	each	456.18	1405	450mm dia CI Manhole cover	each	1,040.00
1366	50mm dia PVC Cowl	each	55.00	1406	450mm dia water sealed heavy type CI manhole cover with locking arrangement	each	750.00
1367	50mm dia PVC bend	each	30.00	1407	RCC Tees (150mm)	each	125.00
1368	150mm dia RCC pipe	m	0.00	1408	450mm long pan (BISF standard) with trap	each	421.00
1369	4.5 to 5.2mm thick 150mm dia PVC 'B' Class pipe	m	500.00	1409	40mm dia GI pipe with holes around the pipe	m	422.75
1370	5.3 to 6.1mm thick 200mm dia PVC 'B' Class pipe	m	770.00	1410	GI Reducing socket (38x12mm)	each	35.00
1371	125mm dia CI Grating	each	120.00	1411	12mm GI Tee	each	25.00
1372	100mm dia CI Trap	each	105.00	1412	12mm GI bend	each	15.00
1373	75mm dia GI pipe	m	0.00	1413	2.5 to 3mm thick 40mm dia PVC pipe ('C' Class)	m	95.70
1374	30mm dia GI pipe	m	0.00	1414	2.5 to 3mm thick 25mm dia PVC pipe ('C' Class)	m	63.80
1375	25mm dia GI pipe	m	0.00	1415	2.5 to 3mm thick 20mm dia PVC pipe ('C' Class)	m	36.55
1376	20mm dia GI pipe	m	0.00	1416	2.5 to 3mm thick 12mm dia PVC pipe ('C' Class)	m	30.06
1377	12mm dia GI pipe	m	0.00	1417	Cost of boring (100mm dia) including all equipment ,accessories, materials, labour etc,	m	100.00
1378	12mm dia Brass bib cock	each	360.00	1418	Hand pump (no 6) complete set (best quality)	set	2,285.00
1379	12mm dia plastic bib cock	each	90.00	1419	2.9mm thick 38mm dia GI pipe	m	459.20
1380	12mm dia CP concealed bib cock	each	970.00	1420	2.5- 3mm thick 40mm dia water graded PVC pipe ('D' Class)	m	78.72

Note: Basic Rate includes cost for carriage to site.

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SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1421	2.5 -3mm thick 40mm dia water graded PVC strainer ('D' Class)	m	78.72	1456	Lowering the bail plug, strainer 150mm dia GI pipe and 300mm dia MS pipe	m	46.44
1422	40mm dia socket adapter	each	11.00	1457	6mm thick 200mm dia GI pipe	m	3,936.00
1423	38mm dia PVC cap (best quality)	each	44.00	1458	200mm dia stainless steel strainer (38.36 kg/m)	m	8,640.00
1424	Cost of boring (325m dia boring) including all equipment, accessories, materials, labour etc.	m	450.00	1459	2.5mm thick 200mm dia stainless steel bridge type strainer	m	6,156.00
1425	50mm dia PVC cap (best quality)	each	115.00	1460	200x300mm dia MS reducer	each	3,000.00
1426	2.5 - 3mm thick 50mm dia water graded PVC blank pipe ('C' Class)	m	173.78	1461	Lowering the bail plug ,strainer 200mm dia GI pipe and 375mm dia MS pipe	m	51.84
1427	2.5 -3mm thick 50mm dia PVC strainer ('C' Class)	m	134.04	1462	3m long 40mm dia PVC strainer (Five Star/ equivalent brand)	each	260.00
1428	2.5 -3mm thick 50mm dia PVC blind/well pipe ('C' Class)	m	173.78	1463	2.5 - 3mm thick 50mm dia pvc pipe (class C)	m	134.04
1429	50x125mm PVC reducer (best quality)	each	130.00	1464	Combi-Closet and Seat Cover with Water Tank and Flushing Unit, Size: 700x370x795mm (RAK Orient or Equivalent)	each	7,340.00
1430	5.5 - 6.4mm thick 125mm dia PVC pipe ('C' Class)	m	643.33	1465	Water Tank and Flushing Unit, size: 385x210mm (RAK or Superior Quality)	each	
1431	PVC tape	each	15.00	1466	Wash Hand Basin, Size: 660x545mm (RAK Orient or Equivalent)	each	2,035.00
1432	PVC solution gum	each	500.00	1467	Pedestal, Size: 860mm long (RAK Orient or Equivalent)	each	1,485.00
1433	Cost of boring (350m dia boring) including all equipment, accessories, labour etc.	m	500.00	1468	Urinal Bowl, Size: 355x330x445mm (RAK or Equivalent)	each	1,650.00
1434	75mm dia PVC cap (best quality)	each	160.00	1469	Asian Water Closet 29cm (long pan), size: 540x470x290mm, RAK or Equivalent	each	1,385.00
1435	3.5 - 4.1mm thick 75mm dia water graded PVC blank pipe ('C' Class)	m	252.50	1470	Asian Cistern, size: 385x105x210mm, RAK or Equivalent	each	2,000.00
1436	3.5 - 4.1mm thick 75mm dia PVC strainer ('C' Class)	m	252.50	1471	Asian Water Closet 18 cm (long pan), size: 505x390x200mm, RAK or Equivalent	each	790.00
1437	3.5 - 4.1mm thick 75mm dia PVC blind/well pipe ('C' Class)	m	252.50	1472	Asian Cistern, size: 385x100x210mm, RAK or Equivalent	each	1,970.00
1438	75x150mm PVC reducer (best quality)	each	140.00	1473	Combi-Closet and Seat Cover with Water Tank and Flushing Unit, Size: 690x360x755mm (RAK Karla or Equivalent)	each	6,272.00
1439	6.6 - 7.6mm thick 150mm dia PVC pipe ('C' Class)	m	931.67	1474	Combi-Closet and Seat Cover with Water Tank and Flushing Unit, Size: 725x360x840mm (RAK Venice or Equivalent)	each	12,933.00
1440	Cost of boring (400mm dia) including all equipment, accessories, materials, labours etc.	m	600.00	1475	Wash Hand Basin, Size: 605x485mm (RAK Karla or Equivalent)	each	1,610.00
1441	100mm dia PVC cap (best quality)	each	200.00	1476	Wash Hand Basin, Size: 650x510mm (RAK Venice or Equivalent)	each	3,619.00
1442	4.5 -5.2mm thick 100mm dia water graded PVC blank pipe ('C' Class)	m	403.33	1477	Wash Hand Basin, Size: 520x445mm (RAK Cynthia or Equivalent)	each	1,375.00
1443	4.5 - 5.2mm thick 100mm dia PVC strainer ('C' Class)	m	445.00	1478	Wash Hand Basin, Size: 510x405mm (RAK Lara or Equivalent)	each	1,375.00
1444	4.5 - 5.2mm thick 100mm dia PVC blind/ well pipe ('C' Class)	m	403.33	1479	Wash Hand Basin, Size: 660x525mm (RAK Windsor or Equivalent)	each	2,985.00
1445	100x 200mm PVC reducer (best quality)	each	780.00	1480	Pedestal, Size: 835mm long (RAK Karla or Equivalent)	each	1,385.00
1446	7.8 - 9.0mm thick 200mm dia PVC pipe ('C' Class)	m	1,432.50	1481	Pedestal, Size: 855mm long (RAK Venice or Equivalent)	each	2,200.00
1447	Cost of boring (600m dia boring) including all equipment, accessories, materials, labour etc.	m	800.00	1482	Pedestal, Size: 795mm long (RAK Cynthia or Equivalent)	each	1,176.00
1448	150mm dia PVC cap (best quality)	each	250.00	1483	Pedestal, Size: 805mm long (RAK Lara or Equivalent)	each	1,176.00
1449	6.6 - 7.6mm thick 150mm dia water graded PVC blank pipe ('C' Class)	m	931.66	1484	Pedestal, Size: 855mm long (RAK Windsor or Equivalent)	each	1,925.00
1450	6.6 - 7.6mm thick 150mm dia PVC blind/well pipe ('C' Class)	m	931.66	1485	Toilet Paper Holder, Size: 185x115mm (RAK or Equivalent)	each	450.00
1451	4.8mm thick 150mm dia GI pipe blank	m	2,640.00				
1452	150mm dia stainless steel strainer (28.84 kg/m)	m	5,292.00				
1453	2.5mm thick 150mm dia stainless steel bridge type strainer	m	4,536.00				
1454	4.85mm thick 150mm dia GI pipe	m	2,640.00				
1455	150x300mm dia MS reducer	each	2,900.00				

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SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1486	Soap Holder, Size: 130x125mm (RAK or Equivalent)	each	300.00	1528	12 mm surface special heavy type angle stop cock	each	695.00
1487	Towel Rail Holder and Rail, Size: 95x65mm (RAK or Equivalent)	each	450.00	1529	12 mm CP concealed mount angle stop cock	each	880.00
1488	6 ply Nylon Net	sqm	54.00	1530	12mm dia Moving Pillar Cock	each	1,550.00
1489	BISF Standard simple type white porcelain long pan (Model- 314E) with foot rest	each		1531	faucets	each	1,200.00
1490	BISF standard coloured long pan, (Model 314E) with foot rest	each		1532	CP Basin Mixture	each	2,890.00
1491	BISF standard special coloured long pan, (Model 314E) with foot rest	each		1533	CP Single Handle Basin Mixture	each	2,400.00
1492	5mm thick glass plate shelf (600x125mm) with CP Brackets (Super quality coloured)	each	450.00	1534	CP Shower Mixture	each	5,000.00
1493	5mm thick glass plate shelf (600x125mm) with CP Brackets (medium quality coloured)	each	380.00	1535	Moving type hand shower	each	1,891.33
1494	Belgium made Mirror (Size:450mmx600mm)	each	600.00	1536	Moving type push shower	each	514.67
1495	100mm dia GI pipe wall thickness 4.50mm	m	2,103.20	1537	Stainless Steel soap tray standard size	each	325.00
1496	100mm dia GI pipe wall thickness 4.05mm	m	1,826.00	1538	uPVC Pipe 50mm dia of 2.5mm to 3.0mm wall thick	m	102.30
1497	100mm dia GI pipe wall thickness 3.65mm	m	1,258.75	1539	uPVC Pipe 75mm dia of 2.9mm to 3.4mm wall thick	m	181.50
1498	80mm dia GI pipe wall thickness 4.05mm	m	1,245.20	1540	uPVC Pipe 100mm dia of 3.4mm to 4.0mm wall thick	m	264.00
1499	80mm dia GI pipe wall thickness 3.25mm	m	863.39	1541	uPVC Pipe 150mm dia of 4.5mm to 5.2mm wall thick	m	550.00
1500	80mm dia GI pipe wall thickness 2.90mm	m	872.80	1542	uPVC Pipe 200mm dia of 5.3mm to 6.1mm wall thick	m	1,099.09
1501	65mm dia GI pipe wall thickness 3.65mm	m	1,096.70	1543	uPVC Pipe 60mm dia of 2.65mm to 3.0mm wall thick	m	102.30
1502	65mm dia GI pipe wall thickness 3.25mm	m	779.00	1544	uPVC Pipe 40mm dia of 2.5mm to 3.0mm wall thick	m	86.63
1503	65mm dia GI pipe wall thickness 2.90mm	m	833.80	1545	uPVC Pipe 32mm dia of 2.2mm to 2.7mm wall thick	m	77.57
1504	50mm dia GI pipe wall thickness 3.65mm	m	737.00	1546	uPVC Pipe 25mm dia of 2.2mm to 2.7mm wall thick	m	71.85
1505	50mm dia GI pipe wall thickness 2.90mm	m	503.16	1547	uPVC Pipe 19mm dia	m	44.74
1506	50mm dia GI pipe wall thickness 2.65mm	m	563.20	1548	uPVC Pipe 12mm dia	m	31.37
1507	40mm dia GI pipe wall thickness 3.25mm	m	566.50	1549	ABS/PPR or equivalent best quality Pipe 12mm dia	m	71.50
1508	40mm dia GI pipe wall thickness 2.90mm	m	418.53	1550	ABS/PPR or equivalent best quality Pipe 19mm dia	m	106.70
1509	40mm dia GI pipe wall thickness 2.65mm	m	451.00	1551	ABS/PPR or equivalent best quality Pipe 25mm dia	m	168.30
1510	32mm dia GI pipe wall thickness 3.25mm	m	418.00	1552	ABS/PPR or equivalent best quality Pipe 32mm dia	m	206.80
1511	32mm dia GI pipe wall thickness 2.65mm	m	333.87	1553	ABS/PPR or equivalent best quality Pipe 40mm dia	m	316.80
1512	32mm dia GI pipe wall thickness 2.35mm	m	338.80	1554	ABS/PPR or equivalent best quality Pipe 50mm dia	m	486.20
1513	25mm dia GI pipe wall thickness 3.25mm	m	382.80	1555	uPVC Y or T 50mm dia	each	134.20
1514	25mm dia GI pipe wall thickness 2.65mm	m	241.34	1556	uPVC Y or T 100mm dia	each	253.00
1515	25mm dia GI pipe wall thickness 2.35mm	m	263.34	1557	uPVC P or S trap 100mm dia	each	330.00
1516	20mm dia GI pipe wall thickness 2.65mm	m	253.00	1558	Plastic grating	each	
1517	20mm dia GI pipe wall thickness 2.35mm	m	190.00	1559	Floor grating SS 62mm dia	each	64.00
1518	20mm dia GI pipe wall thickness 2.10mm	m	191.40	1560	Floor grating SS 125mm dia	each	73.33
1519	15mm dia GI pipe wall thickness 2.65mm	m	188.10	1561	RCC pipe 150mm dia	m	299.63
1520	15mm dia GI pipe wall thickness 2.35mm	m	166.10	1562	RCC pipe 225mm dia	m	422.22
1521	15mm dia GI pipe wall thickness 2.00mm	m	128.25	1563	RCC pipe 300mm dia	m	587.80
1522	150 liter plastic water tank	each	1,853.00	1564	RCC pipe 375mm dia	m	703.86
1523	300 liter plastic water tank	each	3,610.00	1565	100mm dia HCI Pipe with socket	m	1,200.00
1524	12mm dia C.P Two in one Bib Cock	each	1,315.00				
1525	12 mm CP Concealed fixed sink cock	each	1,210.00				
1526	12 mm CP Concealed moving sink cock	each	1,550.00				
1527	12 mm CP medium quality surface & heavy type fancy angle stop cock	each	590.00				

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SL No	Basic Item	Unit	Rate
1566	G.I. Union 12 mm dia	each	42.68
1567	G.I. Union 20 mm dia	each	64.02
1568	G.I. Union 25 mm dia	each	76.82
1569	G.I. Union 32 mm dia	each	101.37
1570	G.I. Union 40 mm dia	each	149.38
1571	G.I. Union 50 mm dia	each	202.73
1572	G.I. Union 62 mm dia	each	448.14
1573	G.I. Union 75 mm dia	each	597.52
1574	G.I. Union 100 mm dia	each	853.60
1575	Brass gate valve 12 mm dia	each	234.74
1576	Brass gate valve 20 mm dia	each	405.46
1577	Brass gate valve 25 mm dia	each	480.15
1578	Brass gate valve 32 mm dia	each	693.55
1579	Brass gate valve 40 mm dia	each	746.90
1580	Brass gate valve 50 mm dia	each	1,333.75
1581	Brass gate valve 62 mm dia	each	2,774.20
1582	Brass gate valve 75 mm dia	each	3,734.50
1583	Brass gate valve 100 mm dia	each	6,187.50
1584	Brass check valve 12 mm dia	each	266.75
1585	Brass check valve 20 mm dia	each	320.10
1586	Brass check valve 25 mm dia	each	480.15
1587	Brass check valve 32 mm dia	each	693.55
1588	Brass check valve 40 mm dia	each	800.25
1589	Brass check valve 50 mm dia	each	1,333.75
1590	Brass check valve 62 mm dia	each	2,347.40
1591	Brass check valve 75 mm dia	each	3,254.35
1592	Brass check valve 100 mm dia	each	5,335.00
1593	Brass Float valve 12 mm dia	each	249.68
1594	Brass Float valve 20 mm dia	each	338.24
1595	Brass Float valve 25 mm dia	each	372.38
1596	Brass Float valve 32 mm dia	each	659.41
1597	Brass Float valve 40 mm dia	each	871.74
1598	12mm dia metal wire sheathed connection pipe with brass/steel coupling, Model: TOTO - T025005 or Equivalent	each	605.00
1599	12mm dia two in one bib cock, Model: TOTO - TX131L or Equivalent	each	6,050.00
1600	Moving type push shower, Model : THX20MCRB or Equivalent	each	3,850.00
1601	Foreign made close couple Commode, Size: 693x451x763, Model: TOTO - C300 or Equivalent	each	31,350.00
1602	Foreign made close couple Commode, Size: 695x368x763, Model: TOTO C300RE#W or Equivalent	each	31,900.00
1603	Foreign made rectangle shape counter basin(Above) with mounting bolt, Size: 500x450mm, White (TOTO – LT710CS or Equivalent)	each	16,500.00
1604	12mm dia pillar cock, Model: TOTO - TS105B13 or Equivalent	each	7,590.00

SL No	Basic Item	Unit	Rate
1605	12mm dia Angle stop cock, Model: TOTO - TX277SV1 or Equivalent	each	2,310.00
1606	30mm dia P-Trap with SS pipe, Model: TOTO - THX1A-3N/5N/6N or Equivalent	each	3,850.00
1607	30mm dia CP basin waste, Model: TOTO - T6JV2N or Equivalent	each	5,280.00
1608	Foreign made oval shape counter basin(Above), Size: 550x446mm, White (TOTO – LW861CJ or Equivalent)	each	8,250.00
1609	Foreign made pedestal basin, Size: 530x465mm, White (TOTO – LW236CJ / LW239FJ or Equivalent)	each	12,100.00
1610	Foreign made Standing Urinal including Flash valve, Size: 330x310x605mm, White & Rectangle Shape (TOTO – U57 / UT57 or Equivalent)	each	22,550.00
1611	Foreign made bath tub with pop up waste, Size: 1500x750x580 mm, Model: TOTO- PAY1570D/DB501-2DR or PAY 1570DH/DB501-2DR or Equivalent.	each	88,550.00
1612	UPVC Pipe 50mm dia	m	210.00
1613	Belgium made Mirror	sqm	2,150.00
1614	1 kg. DCP type Fire Extinguisher	each	1,038.00
1615	2 kg. DCP type Fire Extinguisher	each	1,484.00
1616	3 kg. DCP type Fire Extinguisher	each	1,612.00
1617	5 kg. DCP type Fire Extinguisher	each	2,473.00
1618	6 kg. DCP type Fire Extinguisher	each	2,968.00
1619	3 kg. CO2 type Fire Extinguisher	each	3,661.00
1620	5 kg. CO2 type Fire Extinguisher	each	6,154.00
1621	Trigger	each	123.00
1622	Hose pipe for Fire Extinguisher	each	247.00
1623	Nipple with Nozzle	each	98.00
1624	Cartridge up to 6 kg.	each	888.00
1625	ABC and E Powder	kg	148.00
1626	Carbon-Di-Oxide Recharge	kg	187.00
1627	500 US GPM of water against a head of 262 Feet (80 Meter) handling capacity pump-motor set with base plate and accessories(Engine Driven)	set	2,000,000.00
1628	500 US GPM of water against a head of 296 Feet (90 Meter) handling capacity pump-motor set with base plate and accessories(Engine Driven)	set	2,500,000.00
1629	750 US GPM of water against a head of 328 Feet (100 Meter) handling capacity pump-motor set with base plate and accessories(Engine Driven)	set	3,000,000.00
1630	350 US GPM of water against a head of 263 Feet (80 Meter) 60HP pump-motor set with base plate and accessories(Motor Driven)	set	500,000.00
1631	500 US GPM of water against a head of 296 Feet (90 Meter) 75HP pump-motor set with base plate and accessories(Motor Driven)	set	525,000.00
1632	750 US GPM of water against a head of 328 Feet (100 Meter) 100HP pump-motor set with base plate and accessories(Motor Driven)	set	600,000.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1633	15 US GPM of water against a head of 263 Feet (80 Meter) 3HP pump-motor set with base plate and accessories(Pressure Maintenance Pump)	set	215,000.00	1666	40 mm dia, Wall Thickness: 3.25mm, ERW, Schedule 20	rm	1,312.00
1634	15 US GPM of water against a head of 296 Feet (90Meter) 3HP pump-motor set with base plate and accessories(Pressure Maintenance Pump)	set	231,500.00	1667	25 mm dia, Wall Thickness: 3.25mm, ERW, Schedule 20	rm	1,050.00
1635	20 US GPM of water against a head of 328Feet (100 Meter) 4HP pump-motor set with base plate and accessories(Pressure Maintenance Pump)	set	275,000.00	1668	20 mm dia, Wall Thickness: 2.65mm, ERW, Schedule 20	rm	820.00
1636	100 mm dia 2 way connection complete with non-return valve, chair & cap, purging point etc.	set	39,000.00	1669	12 mm dia, Wall Thickness: 2.65mm, ERW, Schedule 20	rm	574.00
1637	100 mm dia 4 way connection complete with non-return valve, chair & cap, purging point etc.	set	58,400.00	1670	200 mm dia, Wall Thickness: 8.2mm, ERW, Schedule 40	rm	8,036.00
1638	Fire Pump control panel (80 Meter)	set	60,000.00	1671	150 mm dia, Wall Thickness: 7.1mm, ERW, Schedule 40	rm	7,167.00
1639	Starting arrangement of fire pump-motor set (80 Meter)	set	20,000.00	1672	100 mm dia, Wall Thickness: 6.0mm, ERW, Schedule 40	rm	5,714.00
1640	Fire Pump control panel (90 Meter)	set	75,000.00	1673	80mm dia, Wall Thickness: 5.5mm, ERW, Schedule 40	rm	4,369.00
1641	Starting arrangement of Fire pump-motor set (90 Meter)	set	20,000.00	1674	65 mm dia, Wall Thickness: 5.2mm, ERW, Schedule 40	rm	2,624.00
1642	Fire Pump control panel (100 Meter)	set	100,000.00	1675	50 mm dia, Wall Thickness: 3.9mm, ERW, Schedule 40	rm	1,804.00
1643	Starting arrangement of fire pump-motor set (100 Meter)	set	25,000.00	1676	40 mm dia, Wall Thickness: 3.7mm, ERW, Schedule 40	rm	1,476.00
1644	Jockey Pump control panel (80 Meter)	set	20,000.00	1677	25 mm dia, Wall Thickness: 3.4mm, ERW, Schedule 40	rm	1,246.00
1645	Starting arrangement of jockey pump-motor set (80 Meter)	set	3,500.00	1678	20 mm dia, Wall Thickness: 2.9mm, ERW, Schedule 40	rm	886.00
1646	Jockey Pump control panel (90 Meter)	set	25,000.00	1679	12 mm dia, Wall Thickness: 2.8mm, ERW, Schedule 40	rm	640.00
1647	Starting arrangement of jockey pump-motor set (90 Meter)	set	3,500.00	1680	150 mm dia Gate Valve	each	26,127.00
1648	Jockey Pump control panel (100 Meter)	set	30,000.00	1681	100 mm dia Gate Valve	each	18,860.00
1649	Starting arrangement of jockey pump-motor set (100 Meter)	set	3,900.00	1682	80mm dia Gate Valve	each	14,500.00
1650	40 mm dia hose Angle valve	set	14,770.00	1683	65 mm dia Gate Valve	each	10,103.00
1651	40 mm dia FIRE HOSE	set	20,600.00	1684	50 mm dia Gate Valve	each	8,455.00
1652	40 mm dia Jat/ spray nozzal	set	8,059.00	1685	40 mm dia Gate Valve	each	5,190.00
1653	Steel Cabinet for 40 mm dia	set	9,612.00	1686	150 mm dia Globe Valve	each	27,832.00
1654	63 mm dia hose Angle valve	set	18,500.00	1687	100 mm dia Globe Valve	each	20,238.00
1655	63 mm dia FIRE HOSE	set	24,000.00	1688	80mm dia Globe Valve	each	15,559.00
1656	63 mm dia Jat/ spray nozzal	set	7,000.00	1689	65 mm dia Globe Valve	each	10,808.00
1657	Steel Cabinet for 63 mm dia	set	11,500.00	1690	50 mm dia Globe Valve	each	10,058.00
1658	Single Headed Pillar Hydrant	set	30,000.00	1691	40 mm dia Globe Valve	each	7,533.00
1659	Double Headed Pillar Hydrant	set	50,000.00	1692	150 mm dia Non-Return/ Check Valve	each	29,347.00
1660	200 mm dia, Wall Thickness: 6.11mm, ERW, Schedule 20	rm	7,495.00	1693	100 mm dia Non-Return/ Check Valve	each	23,413.00
1661	150 mm dia, Wall Thickness: 4.85mm, ERW, Schedule 20	rm	5,792.00	1694	80mm dia Non-Return/ Check Valve	each	16,997.00
1662	100 mm dia, Wall Thickness: 4.50mm, ERW, Schedule 20	rm	3,903.00	1695	65 mm dia Non-Return/ Check Valve	each	14,190.00
1663	80mm dia, Wall Thickness: 4.05mm, ERW, Schedule 20	rm	2,968.00	1696	50 mm dia Non-Return/ Check Valve	each	12,206.00
1664	65 mm dia, Wall Thickness: 3.85mm, ERW, Schedule 20	rm	2,132.00	1697	40 mm dia Non-Return/ Check Valve	each	7,457.00
1665	50 mm dia, Wall Thickness: 3.65mm, ERW, Schedule 20	rm	1,640.00	1698	150 mm dia Y - Strainer	each	28,428.00
				1699	100 mm dia Y - Strainer	each	20,231.00
				1700	80mm dia Y - Strainer	each	13,819.00
				1701	65 mm dia Y - Strainer	each	13,260.00
				1702	50 mm dia Y - Strainer	each	11,140.00
				1703	40 mm dia Y - Strainer	each	7,670.00
				1704	150 mm dia Foot Valve with Strainer	each	19,171.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1705	100 mm dia Foot Valve with Strainer	each	15,590.00	1746	Push-button manual call point and accessories	set	4,946.00
1706	80mm dia Foot Valve with Strainer	each	13,157.00	1747	Fire alarm bell with all accessories	set	5,113.00
1707	65 mm dia Foot Valve with Strainer	each	10,335.00	1748	Fire Horn with all accessories	set	4,912.00
1708	50 mm dia Foot Valve with Strainer	each	8,241.00	1749	Strobe with all accessories	set	5,144.00
1709	40 mm dia Foot Valve with Strainer	each	6,194.00	1750	Photo electric smoke detector	set	4,947.00
1710	150 mm dia Flexible Joint	each	17,650.00	1751	Heat Detector	set	4,947.00
1711	100 mm dia Flexible Joint	each	13,196.00	1752	Fire Alarm Control Panel for up to 250 Addressable Devices (Max) with all accessories	set	450,000.00
1712	80mm dia Flexible Joint	each	12,438.00	1753	Fire Alarm Control Panel for up to 500 Addressable Devices (Max) with all accessories	set	533,000.00
1713	65 mm dia Flexible Joint	each	11,595.00	1754	Fire Alarm Control Panel for up to 750 Addressable Devices (Max) with all accessories	set	640,000.00
1714	50 mm dia Flexible Joint	each	9,344.00	1755	Fire Alarm Control Panel for up to 1000 Addressable Devices (Max) with all accessories	set	732,000.00
1715	40 mm dia Flexible Joint	each	8,161.00	1756	Fire Alarm Control Panel for up to 1500 Addressable Devices (Max) with all accessories	set	881,700.00
1716	65 mm dia Ball Valve, Class: PN20	each	8,031.00	1757	Fire Alarm Control Panel for up to 2000 Addressable Devices (Max) with all accessories	set	1,138,000.00
1717	50 mm dia Ball Valve, Class: PN20	each	5,403.00	1758	Repeater Panel with all accessories	set	163,000.00
1718	40 mm dia Ball Valve, Class: PN20	each	2,289.00	1759	Multy Detector addressable type	set	7,700.00
1719	25 mm dia Ball Valve, Class: PN20	each	1,794.00	1760	Photo electric smoke detector addressable type	set	7,000.00
1720	20 mm dia Ball Valve, Class: PN20	each	1,398.00	1761	Addressable Type Heat Detector	set	6,170.00
1721	12 mm dia Ball Valve, Class: PN20	each	765.00	1762	Addressable Manual Pull Station : Single action	set	7,000.00
1722	0-250 psi dial type pressure gauge with necessary accessories and sundry materials	each	4,000.00	1763	Addressable Manual Pull Station : Double action	set	8,600.00
1723	Electric operated pressure switch complete with sensing element and other standard accessories	each	6,500.00	1764	Addressable Notification Device (Audible Horn Only) :	set	7,000.00
1724	Pressure Release Valve,50 mm dia	each	29,935.00	1765	Addressable Notification Device (Strobe Only) :	set	7,000.00
1725	Pressure Release Valve,80 mm dia	each	40,000.00	1766	Addressable Notification Devices(Horn with Strobe)	set	8,600.00
1726	20 mm dia air-vent valve	set	7,000.00	1767	Isolator Module / Fault Isolator Module	set	6,200.00
1727	Flow-switch 100 mm dia	set	19,000.00	1768	Addressable-Conventional Interface Module	set	6,200.00
1728	Flow-switch 80 mm dia	set	15,000.00	1769	Addressable Relay / Control Module	set	6,200.00
1729	Flow-switch 65 mm dia	set	12,000.00	1770	Programming Charge for first 250	per device	300.00
1730	Flow-switch 50 mm dia	set	9,000.00	1771	Programming Charge after 250	per device	40.00
1731	Pressure Reducing Valve:40mm dia	each	21,130.00	1772	150 mm dia OS & Y Valve	each	30,046.05
1732	Pendent Type Sprinkler Head	each	1,460.00	1773	100 mm dia OS & Y Valve	each	21,689.00
1733	Up-Right type Sprinkler Head	each	1,397.00	1774	80mm dia OS & Y Valve	each	16,675.00
1734	Side wall type Sprinkler Head	each	1,730.00	1775	65 mm dia OS & Y Valve	each	11,618.45
1735	6" Alarm Check Valve	each	250,000.00	1776	50 mm dia OS & Y Valve	each	9,723.25
1736	4" Alarm Check Valve	each	200,000.00	1777	40 mm dia OS & Y Valve	each	5,968.50
1737	Water Flow Monitoring panel for 8 nos of Hydrant	each	80,630.00	1778	Pressure Reducing Valve:50mm dia	each	24,100.00
1738	Water Flow Monitoring panel for 16 nos of Hydrant	each	100,900.00	1779	Pressure Reducing Valve:65mm dia	each	27,100.00
1739	Water Flow Monitoring panel for 24 nos of Hydrant	each	150,660.00	1780	Pressure Reducing Valve:80mm dia	each	30,100.00
1740	Door with Frame & Shutter single (1100X2100)	each	60,690.00	Electrical & Lighting			
1741	Vision Panel (Min 0.045 sqm)	each	12,600.00	1781	200 amps 500V ICTP	each	6,577.00
1742	Electromagnetic Door Holder	each	7,350.00	1782	150 amps 500V ICTP	each	4,763.00
1743	08- zone conventional fire-alarm control panel with power supply unit including batteries and other accessories etc. complete	set	79,142.00	1783	100 amps 500V ICTP	each	4,306.00
1744	16- zone conventional fire-alarm control panel with power supply unit including batteries and other accessories etc. complete	set	98,926.00	1784	60 amps 500V ICTP	each	4,267.00
1745	24- zone conventional fire-alarm control panel with power supply unit including batteries and other accessories etc. complete	set	150,000.00	1785	30 amps 500V ICTP	each	4,267.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1786	15 amps 500V ICTP	each	4,267.00	1825	Jack Wood Board (200x450x25mm) including varnishing	each	750.00
1787	30 amps 250V ICTP	each	1,278.00	1826	Jack Wood Board (200x300x25mm) including varnishing	each	625.00
1788	20 amps 250V ICTP	each	1,278.00	1827	Jack Wood Board (200x200x25mm) including varnishing	each	525.00
1789	15 amps 250V ICTP	each	1,209.00	1828	18 SWG Steel Sheet Metal	kg	217.00
1790	10 amps 250V ICTP	each	1,209.00	1829	40 amps SPMCB (6 KA)	each	366.00
1791	30 amps 4-way FDB	each	0.00	1830	Copper Bus Bars	kg	1,400.00
1792	30 amps 6-way FDB	each	0.00	1831	5/20 amps SPMCB (6 KA)	each	389.00
1793	30 amps 9-way FDB	each	0.00	1832	Porcelain Base Insulator with nuts and bolts	each	165.00
1794	30 amps 10-way FDB	each	3,700.00	1833	Connecting wire (IC -1.5mm2)	m	25.00
1795	200 amps 500V 3 phase Energy Meter	each	13,500.00	1834	Teak Wood Board (350x450x25mm) including varnishing	each	360.00
1796	150 amps 500V 3 phase Energy Meter	each	5,500.00	1835	Teak Wood Board (250x350x25mm) including varnishing	each	275.00
1797	100 amps 500V 3 phase Energy Meter	each	10,000.00	1836	Teak Wood Board (200x300x25mm) including varnishing	each	275.00
1798	60 amps 500V 3 phase Energy Meter	each	10,000.00	1837	Teak Wood Board (150x200x 25mm) including varnishing	each	240.00
1799	30 amps 500V 3 phase Energy Meter	each	8,500.00	1838	Teak Wood Board (100x150x25mm) including varnishing	each	210.00
1800	10 amps to 60 amps 250V single phase Energy Meter	each	2,000.00	1839	Teak Wood Board (100x100x25mm) Including varnishing	each	180.00
1801	5 amps to 30 amps single pole MCB	each	425.00	1840	Metal Board made of 18 SWG BP sheet with corner of 14 SWG BP sheet including painting	each	90.00
1802	Iron Frame (2 way)	each	1,000.00	1841	Jack Wood Board (750x900x25mm) including varnishing	each	1,125.00
1803	Iron Frame (4 way)	each	1,200.00	1842	Lock and Key	set	150.00
1804	Iron Frame (6 way)	each	1,400.00	1843	Jack Wood Board (600x750x25mm) including varnishing	each	1,093.00
1805	Iron Frame (8 way)	each	1,600.00	1844	16 SWG Metal Board with MS Angle Frame including painting etc.	each	200.00
1806	Iron Frame (10 way)	each	1,800.00	1845	12mm GI plug	each	28.00
1807	15 amps 250V 10 way ICDB	each	2,500.00	1846	Copper Flat Bar Clamp	each	180.00
1808	15 amps 250V 8 way ICDB	each	2,300.00	1847	SWG HDBC Wire (#2)	kg	1,000.00
1809	15 amps 250V 6 way ICDB	each	2,100.00	1848	1.5mm2 green earth continuity conductor	m	22.00
1810	15 amps 250V 4 way ICDB	each	1,900.00	1849	2.5mm2 green earth continuity conductor	m	35.00
1811	15 amps 250V 2 way ICDB	each	1,800.00	1850	18 SWG HDBC Wire	m	34.00
1812	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) - 3/.029	m	0.00	1851	12 SWG HDBC wire	m	53.00
1813	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) - 3/.036	m	0.00	1852	8 SWG HDBC wire	m	127.00
1814	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) - 7/.029	m	0.00	1853	6 SWG HDBC wire	m	183.00
1815	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) 7/.036	m	0.00	1854	4 SWG HDBC wire	m	253.00
1816	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) 7/.044	m	330.00	1855	2 SWG HDBC wire	m	410.00
1817	PVC Insulated and sheeted Flat Twin Core Cable (IFYF) 7/.064	m	485.00	1856	250V electric buzzer	each	540.00
1818	PVC Insulated and non sheeted Round Single Core Cable (IYAL)(BYA-1.5m)3/.029	m	0.00	1857	25 watt Bulb with brass batten holder	each	92.00
1819	PVC Insulated and non sheeted Round Single Core Cable (IYAL) (BYA-2.5m)3/.036	m	0.00	1858	PVC flexible cord of size 2x14/0.193mm	m	30.00
1820	PVC Insulated and non sheeted Round Single Core Cable (IYAL) (BYA-2.5m)7/.029	m	0.00	1859	60 amps cut out	each	92.00
1821	PVC Insulated and non sheeted Round Single Core Cable (IYAL) (BYA-4m)7/.036	m	0.00	1860	30 amps cut out	each	74.00
1822	PVC Insulated and non sheeted Round Single Core Cable (IYAL) 7/.044	m	128.00	1861	15 amps cut out	each	56.00
1823	Clamp (250x38x6mm)	each	55.00	1862	10 amps cut out	each	51.00
1824	Jack Wood Board (250x350x25mm) Including varnishing	each	715.00	1863	5 amps cut out	each	37.00
				1864	2 way junction box	each	82.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1865	4 way junction box	each	165.00	1907	100w normal bulb	each	37.00
1866	1.422 m sweep ceiling fan (best quality)	each	3,000.00	1908	60w normal bulb	each	32.00
1867	1.22 m sweep ceiling fan (best quality)	each	2,625.00	1909	40w normal bulb	each	32.00
1868	0.914 m sweep ceiling fan (best quality)	each	2,140.00	1910	Mushroom type light (350mm)	each	1,658.00
1869	600mm sweep wall mounted Exhaust fan (best quality)	each	4,500.00	1911	Base plate (300x300x12mm)	each	525.00
1870	Louver Shutter	each	170.00	1912	Light fitting minimum 610mm high consisting of hexagonal conical shaped polished brass made body, frosted fancy glass cover, brass holder, necessary wiring etc.	set	1,601.00
1871	450mm sweep wall mounted Exhaust fan (best quality)	each	2,451.00	1913	3 phase 440V 10hp centrifugal pump motor	set	83,500.00
1872	400mm sweep wall mounted Exhaust fan (best quality)	each	2,300.00	1914	3 phase 440V 7hp centrifugal pump motor	set	64,000.00
1873	300mm sweep wall mounted Exhaust fan (best quality)	each	2,050.00	1915	3 phase 440V 5hp centrifugal pump motor	set	60,000.00
1874	12mm thick 63mm wide teak wood batten	m	45.00	1916	3 phase 440V 3hp centrifugal pump motor	set	33,000.00
1875	Wood Pegs	each	30.00	1917	Single phase 220V 2hp centrifugal pump motor	set	26,500.00
1876	12mm thick 50mm wide teak wood batten	m	42.00	1918	Single phase 220V 1hp centrifugal pump motor	set	11,300.00
1877	12mm thick 40mm wide teak wood batten	m	37.00	1919	30amps 3 phase starter for motor	each	1,500.00
1878	12mm thick 25mm wide teak wood batten	m	24.00	1920	15amps 3 phase starter for motor	each	1,410.00
1879	12mm thick 20mm wide teak wood batten	m	20.00	1921	7 amps 3 phase starter for motor	each	1,290.00
1880	5 amps 2 pin socket with control switch	set	455.00	1922	Signal light	set	280.00
1881	15 amps 3 pin combined switch and socket	set	515.00	1923	100 amps cut out	each	85.00
1882	Saucer light	set	850.00	1924	5/6/7 watt Pin Type B-22 CDL (Cool Day Light)	each	235.00
1883	Metal plated fancy bracket holder and fancy shade	set	800.00	1925	11/13/14/15 watt B-22 CDL	each	267.00
1884	Mirror light	set	500.00	1926	8 watt screw Type lamps E-27 CDL/11 watt E22	each	235.00
1885	Pendent light fitting (Best Quality)	set	2,100.00	1927	15 watt Spiral Type lamps B22 CDL	each	235.00
1886	Foot light	set	900.00	1928	20 watt Spiral Type lamps B22 CDL	each	305.00
1887	1.22mm long 40 W fluorescent tube set with choke coil starter, condenser holder, 18 SWG sheet steel stove enamel base etc. (Eastern or prior approved quality)	set	670.00	1929	23 watt Spiral Type lamps B22	each	295.00
1888	450mm flood light (excluding lamp)	set	7,875.00	1930	15 watt Spiral Screw Type lamps E-27	each	275.00
1889	500 watt normal lamp	each	150.00	1931	20 watt Spiral Screw Type lamps E-27	each	295.00
1890	Tumbler switch	each	25.00	1932	23 watt Spiral Screw Type lamps E-27	each	285.00
1891	Metallic cone shade	each	262.00	1933	9 watt lamps B-22/E-27 CDL	each	255.00
1892	Brass batten holder	each	27.00	1934	14 watt Mini Spiral Type lamps B-22/E-27 Warm White	each	265.00
1893	Brass pendent holder	each	33.00	1935	25/26 watt Spiral Type lamps E-27 CDL	each	285.00
1894	One way tumbler switch	each	25.00	1936	8 watt lamps E-14 DL/ W W	each	245.00
1895	Fan bearing	pair	100.00	1937	11 watt lamps E-14 DL	each	264.00
1896	Fan capacitor	each	120.00	1938	15 watt lamps B-22 DL	each	276.00
1897	Fan Dimmer	each	580.00	1939	20 watt lamps B-22 DL/E-27 DL	each	295.00
1898	1.20m 40W fluorescent tube (Eastern or prior approved quality)	each	120.00	1940	65 watt lamps E-27 DL/B-27	each	1,284.00
1899	Choke (Tube Light)	each	285.00	1941	Withdraw Type VCB CT, PT etc.	each	1,109,900.00
1900	Tube light holder	each	35.00	1942	150 KVA3-phase oil type transformer	each	420,000.00
1901	Tube light starter	each	23.00	1943	200 KVA3-phase oil type transformer	each	450,000.00
1902	Condenser	each	260.00	1944	250 KVA3-phase oil type transformer	each	560,000.00
1903	160w mercury bulb	each	440.00	1945	300/315 KVA3-phase oil type transformer	each	656,000.00
1904	200w mercury bulb	each	495.00	1946	400 KVA 3-phase oil type transformer	each	780,000.00
1905	500w normal bulb	each	165.00	1947	500 KVA 3-phase oil type transformer	each	860,000.00
1906	200w normal bulb	each	60.00	1948	600/630 KVA 3-phase oil type transformer	each	1,054,000.00
				1949	800 KVA 3-phase oil type transformer	each	1,190,000.00
				1950	1000 KVA 3-phase oil type transformer	each	1,520,000.00
				1951	1250 KVA 3-phase oil type transformer	each	1,523,000.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
1952	1500/1600 KVA 3-phase oil type transformer	each	1,900,000.00	1998	Control circuit breaker 500 ATP MCCB (35 KA)	each	
1953	2000 KVA 3-phase oil type transformer	each	2,212,000.00	1999	Control circuit breaker 600/630 ATP (35 KA) MCCB	each	
1954	500 KVA 3-phase dry type Transforme	each	1,100,000.00	2000	Control circuit breaker 800 ATP (50 KA) MCCB	each	
1955	630 KVA 3-phase dry type Transforme	each	1,365,000.00	2001	Control circuit breaker 1000 ATP MCCB (65 KA)	each	
1956	800 KVA 3-phase dry type Transforme	each	1,575,000.00	2002	Control circuit breaker 1200/1250 ATP MCCB (65 KA)	each	
1957	1000 KVA 3-phase dry type Transforme	each	2,000,000.00	2003	Control circuit breaker 1600 ATP MCCB (80 KA)	each	
1958	1200 KVA 3-phase dry type Transforme	each	2,415,000.00	2004	Control circuit breaker 2000 ATP MCCB (80 KA)	each	
1959	1500/1600 KVA 3-phase dry type Transforme	each	2,500,000.00	2005	Control circuit breaker 2500 ATP MCCB (80 KA)	each	
1960	2000 KVA 3-phase dry type Transforme	each	2,520,000.00	2006	Control circuit breaker 3000/3200 ATP MCCB (80 KA)	each	
1961	Lightning arrester	set	10,000.00	2007	150 A single phase AVR	each	
1962	HT dropout fuse	set	10,000.00	2008	BI-pass Switch	each	
1963	HT disconnecting switch	set	60,000.00	2009	Equipment for 150 KVA 3-Phase Transformer LT Switch gear	each	165,000.00
1964	U-channel HT disconnecting switch	m	10,000.00	2010	Equipment for 200 KVA 3-Phase Transformer LT Switch gear	each	199,500.00
1965	Fixed type VCB	each		2011	Equipment for 250 KVA 3-Phase Transformer LT Switch gear	each	215,300.00
1966	HT/ PT 11/110 KV for	each		2012	Equipment for 300 KVA 3-Phase Transformer LT Switch gear	each	260,000.00
1967	11 KV HT CT (Double core)	each		2013	Equipment for 400 KVA 3-Phase Transformer LT Switch gear	each	308,000.00
1968	11 KV HT CT (single core)	each		2014	Equipment for 500 KVA 3-Phase Transformer LT Switch gear	each	345,000.00
1969	IDMT RELAY	each		2015	Equipment for 630 KVA 3-Phase Transformer LT Switch gear	each	460,000.00
1970	HT Bushing	each		2016	Equipment for 750/800 KVA 3-Phase Transformer LT Switch gear	each	560,000.00
1971	LT BUSHING	each		2017	Equipment for 1000 KVA 3-Phase Transformer LT Switch gear	each	760,000.00
1972	PANEL HEATER	each		2018	Equipment for 1250 KVA 3-Phase Transformer LT Switch gear	each	1,000,000.00
1973	BUCHHOLZ RELAY	each		2019	Equipment for 1500 KVA 3-Phase Transformer LT Switch gear	each	1,423,500.00
1974	Capacitor bank 10 KVAR	each		2020	Equipment for 200 KVATransformer PFI capacity 120 KVAR	each	200,000.00
1975	Capacitor bank 12.5 KVAR	each		2021	Equipment for 250 KVA Transformer PFI capacity 150 KVAR	each	220,000.00
1976	Capacitor bank 20 KVAR	each		2022	Equipment for 300/315 KVA Transformer PFI capacity 187.5 KVAR	each	250,000.00
1977	Capacitor bank 2.5 KVAR	each		2023	Equipment for 400 KVA Transformer PFI capacity 240 KVAR	each	285,000.00
1978	Capacitor bank 40 KVAR	each		2024	Equipment for 500 KVA Transformer PFI capacity 300 KVAR	each	330,000.00
1979	Capacitor bank 50 KVAR	each		2025	Equipment for 600/630 KVA Transformer PFI capacity 375 KVAR	each	420,000.00
1980	Capacitor bank 100 KVAR	each		2026	Equipment for 750/800 KVA Transformer PFI capacity 480 KVAR	each	480,000.00
1981	PFC Relay 6 Stage	each		2027	Equipment for 1000 KVA Transformer PFI capacity 600 KVAR	each	620,000.00
1982	PFC Relay 9 Stage	each		2028	Equipment for 1250 KVA Transformer PFI capacity 750 KVAR	each	780,000.00
1983	Oil level indicatorfor x.former	each					
1984	Silica gel BREATHER	each					
1985	Silica gel	kg					
1986	Oil	LS					
1987	Control circuit breaker 32 A TP (16 KA) MCCB	each					
1988	Control circuit breaker 40 A TP (16 KA) MCCB	each					
1989	Control circuit breaker 50 A TP (16 KA) MCCB	each					
1990	circuit breaker 60/63 A TP (16 KA) MCCB	each					
1991	Control circuit breaker 80 A TP (80 KA) MCCB	each					
1992	Control circuit breaker 100 A TP (16 KA) MCCB	each					
1993	Control circuit breaker 150/160 ATP (25 KA) MCCB	each					
1994	Control circuit breaker 200 ATP (25 KA) MCCB	each					
1995	Control circuit breaker 250 ATP (35 KA) MCCB	each					
1996	Control circuit breaker 300/320 ATP (35 KA) MCCB	each					
1997	Control circuit breaker 400 ATP (35 KA) MCCB	each					

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2029	Equipment for 1500/1600 KVA Transformer PFI capacity 900 KVAR	each	870,000.00	2064	component Microprocessor controlled three-phase 50 HZ IDMT relay for 11 KV switchgear	each	100,000.00
2030	Equipment for 2000 KVA Transformer PFI capacity 1200 KVAR	each	1,300,000.00	2065	component 11 KV ,potential bushing (for transformer capacity up to 2MVA	each	31,500.00
2031	Equipment LTAVR 15 KVA	each		2066	component 500V , potential bushing (for transformer capacity up to 2MVA	each	11,000.00
2032	Equipment LTAVR 20 KVA	each		2067	component Thermostat controlled panel heater for 11 KV , 50HZ, switchgear	each	7,980.00
2033	Equipment LTAVR 30 KVA	each		2068	component Buchholz relay for 11/0.415 & 0.24 KA 3-phase, 50 HZ transformer	each	28,500.00
2034	Equipment LTAVR 40 KVA	each		2069	component 415V50 HZ,3-phase capacitor bank of following capacity	each	
2035	Equipment LTAVR 50 KVA	each		2070	component capacitor bank 5 KVAR	each	5,000.00
2036	Equipment LTAVR 60 KVA	each		2071	component capacitor bank 7.5 KVAR	each	7,000.00
2037	Equipment LTAVR 75 KVA	each		2072	component capacitor bank 10 KVAR	each	9,000.00
2038	Equipment LTAVR 100 KVA	each		2073	component capacitor bank 12.5 KVAR	each	13,000.00
2039	Equipment LTAVR 150 KVA	each		2074	component capacitor bank 20 KVAR	each	20,000.00
2040	Equipment LTAVR 200 KVA	each		2075	component capacitor bank 25 KVAR	each	22,000.00
2041	Equipment for 150 KVA Transformer PFI capacity 90 KVAR	each	190,867.00	2076	component capacitor bank 40 KVAR	each	26,000.00
2042	Withdrawable type VCB			2077	component capacitor bank 50 KVAR	each	35,000.00
2043	installation testing & commissioning of 100-150KVA transformer on H-pole	each		2078	component capacitor bank 100 KVAR	each	42,000.00
2044	installation testing & commissioning of 200-250KVA transformer on H-pole	each		2079	component PFC relay 6 stage	each	15,000.00
2045	installation testing & commissioning of 100-150KVA transformer on CC pad	each		2080	component PFC relay 9 stage	each	25,000.00
2046	installation testing & commissioning of 200-315KVA transformer on CC pad	each		2081	component Oil level indicator for 11/0.415 & 0.24 KV transformer	each	5,000.00
2047	installation testing & commissioning of 400-630KVA transformer on CC pad	each		2082	component Silcagel breather container for transformer	each	5,400.00
2048	installation testing & commissioning of 800-1000KVA transformer on CC pad	each		2083	component Silcagel for transformer breather	each	1,125.00
2049	installation testing & commissioning of 1200-1600KVA transformer on CC pad	each		2084	Transformer oil	each	300.00
2050	installation testing & commissioning of 2000KVA transformer on CC pad	each		2085	30/32 A (16 KA) TP MCCB.	each	7,600.00
2051	LT panel/PFI installation testing & commissioning for 150KVA transformer	each		2086	40 A(16 KA) TP MCCB.	each	7,600.00
2052	LT panel/PFI installation testing & commissioning for 200-400KVA transformer	each		2087	50 A(16 KA) TP MCCB.	each	7,600.00
2053	LT panel/PFI installation testing & commissioning for 500-600KVA transformer	each		2088	60/63 A(16 KA) TP MCCB.	each	7,600.00
2054	LT panel/PFI installation testing & commissioning for 800-1000KVA transformer	each		2089	80 A(16 KA) TP MCCB.	each	8,450.00
2055	LT panel/PFI installation testing & commissioning for 1250-1600KVA transformer	each		2090	100 A(16 KA) TP MCCB.	each	9,227.00
2056	LT panel/PFI installation testing & commissioning for 2000KVA transformer	each		2091	150/160 A(25 KA) TP MCCB.	each	11,900.00
2057	installation HT drop out fuse	each		2092	200 A(25 KA) TP MCCB.	each	13,600.00
2058	installation HT lightning arrester	each		2093	250 A(35 KA) TP MCCB.	each	15,940.00
2059	installation HT disconnecting switch	each		2094	300/320 A(35 KA) TP MCCB.	each	38,273.00
2060	component sub-station equipment HT VCB 630A	each	760,000.00	2095	400 A(35 KA) TP MCCB.	each	40,000.00
2061	component 11 KV 50VA 11/011 ratio cast resin insulated PT class 0.5	each	32,000.00	2096	500 A(35 KA) TP MCCB.	each	42,530.00
2062	component 11 KV 10-15VA 11/011 adequate ratio double core cast resin insulated CT class 0.5	each	32,000.00	2097	600/630 A(35 KA) TP MCCB.	each	47,540.00
2063	component 11 KV 15VA 11/011 adequate ratio single core cast resin insulated CT	each	32,000.00	2098	800 A(50 KA) TP MCCB.	each	94,278.00
				2099	1000 A(50 KA) TP MCCB.	each	122,400.00
				2100	1200/1250 A(50 KA) TP MCCB.	each	128,500.00
				2101	1600 A(50 KA) TP MCCB.	each	157,000.00
				2102	2000 A(65KA) TP MCCB.	each	235,000.00
				2103	2500 A(65 KA) TP MCCB.	each	280,000.00
				2104	3000/3200 A(65KA) TP MCCB.	each	355,000.00
				2105	HT AVR	each	1,550,000.00
				2106	LT AVR 15KVA	each	112,000.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2107	LT AVR 20KVA	each	140,000.00	2154	1c, 4x95.0sq.mm (NYY) cable	m	3,972.16
2108	LT AVR 30KVA	each	175,000.00	2155	1c, 4x120.0sq.mm (NYY) cable	m	4,962.48
2109	LT AVR 40KVA	each	178,000.00	2156	1c, 4x150.0sq.mm (NYY) cable	m	6,181.52
2110	LT AVR 50KVA	each	240,000.00	2157	1c, 4x185.0sq.mm (NYY) cable	m	7,620.20
2111	LT AVR 60KVA	each	260,000.00	2158	1c, 4x240.0sq.mm (NYY) cable	m	9,851.44
2112	LT AVR 75KVA	each	335,000.00	2159	1c, 4x300.0sq.mm (NYY) cable	m	12,219.76
2113	LT AVR 100KVA	each	452,000.00	2160	HT 3cx25sq.mm (NYSEYFGbY) cable	m	2,541.00
2114	LT AVR 150KVA	each	545,207.00	2161	HT 3cx35sq.mm (NYSEYFGbY) cable	m	2,944.24
2115	LT AVR 200KVA	each	667,000.00	2162	HT 3cx50sq.mm (NYSEYFGbY) cable	m	3,514.34
2116	BI-Pass Switch	each	200,000.00	2163	HT 3cx70sq.mm (NYSEYFGbY) cable	m	4,328.17
2117	HT AVR Installation	each		2164	HT 3cx95sq.mm (NYSEYFGbY) cable	m	5,305.11
2118	installation of BI Pass switch	each		2165	HT 3cx120sq.mm (NYSEYFGbY) cable	m	6,214.53
2119	Batten wiring light point	each		2166	HT 3cx150sq.mm (NYSEYFGbY) cable	m	7,580.90
2120	Batten wiring fan point	each		2167	HT 3cx185sq.mm (NYSEYFGbY) cable	m	8,853.36
2121	Batten wiring call bell point	each		2168	HT 3cx25sq.mm (XLPE) cable	m	1,973.26
2122	Batten wiring 2-pin 5A socket point	each		2169	HT 3cx35sq.mm (XLPE) cable	m	2,391.41
2123	2c-1.5sq.mm (BYFYE) cable	m	42.15	2170	HT 3cx50sq.mm (XLPE) cable	m	2,935.59
2124	2c-2.5sq.mm (BYFYE) cable	m	66.55	2171	HT 3cx70sq.mm (XLPE) cable	m	3,746.04
2125	2c-4.0sq.mm (BYFYE) cable	m	100.40	2172	HT 3cx95sq.mm (XLPE) cable	m	4,723.18
2126	2c-6.0sq.mm (BYFYE) cable	m	144.53	2173	HT 3cx120sq.mm (XLPE) cable	m	5,613.77
2127	Channel wiring lighting point	each		2174	HT 3cx150sq.mm (XLPE) cable	m	6,668.65
2128	Channel wiring fan point	each		2175	HT 3cx185sq.mm (XLPE) cable	m	7,934.14
2129	Channel wiring call bell point	each		2176	TP cable 1C-2x0282sq.mm (1 pair)	m	11.08
2130	Channel wiring 2-pin 5A socket point	each		2177	TP cable 1C-4x0282sq.mm (2 pair)	m	18.01
2131	2c-1.5sq.mm (BYM) cable	m	63.67	2178	TP cable 1C-6x0282sq.mm (3 pair)	m	26.72
2132	2c-2.5sq.mm (BYM) cable	m	91.23	2179	TP cable 1C-8x0282sq.mm (4 pair)	m	38.36
2133	2c-4.0sq.mm (BYM) cable	m	128.15	2180	TP cable 1C-10x0282sq.mm (5 pair)	m	44.99
2134	2c-6.0sq.mm (BYM) cable	m	175.41	2181	TP cable 1C-12x0282sq.mm (6 pair)	m	54.19
2135	Surface wiring lighting point	each		2182	TP cable 1C-16x0282sq.mm (8 pair)	m	68.66
2136	Surface wiring fan point	each		2183	TP cable 1C-20x0282sq.mm (10 pair)	m	85.80
2137	Surface wiring call bell point	each		2184	TP cable 1C-40x0282sq.mm (20 pair)	m	161.98
2138	Surface wiring 2-pin 5A socket point	each		2185	Co-axial cable 4/C	m	26.81
2139	1c, 2x1.5sq.mm (BYA) cable	m	32.70	2186	Co-axial cable 5/C	m	32.16
2140	1c, 2x2.5sq.mm (BYA) cable	m	52.12	2187	Co-axial cable 6/C	m	42.20
2141	1c, 2x4.0sq.mm (BYA) cable	m	81.16	2188	4-way SP SDB	each	
2142	1c, 2x6.0sq.mm (BYA) cable	m	121.22	2189	5-way SP SDB	each	
2143	1c, 2x10.0sq.mm (BYA) cable	m	199.42	2190	6-way SP SDB	each	
2144	1c, 2x16.0sq.mm (BYA) cable	m	316.08	2191	32Amps (6KA) TP MCB	each	2,000.00
2145	1c, 4x2.5sq.mm (NYY) cable	m	175.28	2192	40Amps (6KA) TP MCB	each	2,000.00
2146	1c, 4x4.0sq.mm (NYY) cable	m	246.04	2193	63Amps (6KA) TP MCB	each	2,150.00
2147	1c, 4x6.0sq.mm (NYY) cable	m	342.96	2194	63Amps (10KA) TP MCCB	each	7,000.00
2148	1c, 4x10.0sq.mm (NYY) cable	m	508.16	2195	80Amps (10KA) TP MCCB	each	8,570.00
2149	1c, 4x16.0sq.mm (NYY) cable	m	766.32	2196	100Amps (16KA) TP MCCB	each	8,970.00
2150	1c, 4x25.0sq.mm (NYY) cable	m	1,156.32	2197	150/160Amps (16KA) TP MCCB	each	16,849.00
2151	1c, 4x35.0sq.mm (NYY) cable	m	1,542.16	2198	01-gang switch	each	190.00
2152	1c, 4x50.0sq.mm (NYY) cable	m	2,170.68	2199	02-gang switch	each	320.00
2153	1c, 4x70.0sq.mm (NYY) cable	m	2,977.56	2200	03-gang switch	each	420.00

Note: Basic Rate includes cost for carriage to site.

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SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2201	04-gang switch	each	525.00	2248	65mm dia pvc pipe	m	
2202	2-pin 5A socket	each	650.00	2249	75mm dia pvc pipe	m	
2203	gang type fan regulator	each.	450.00	2250	100mm dia pvc pipe	m	268.00
2204	call bell	each	700.00	2251	125mm dia pvc pipe	m	316.00
2205	telephone socket (gang type)	each	780.00	2252	150mm dia pvc pipe	m	
2206	TV socket (gang type)	each	600.00	2253	bricks for separation	each	5.50
2207	wall bracket fan 16" sweep plastic body & blade	each	2,420.00	2254	painting both side	sqm	130.00
2208	wall bracket fan 16" sweep steel body & blade	each	2,970.00	2255	5-30A SP MCB	each	366.00
2209	fan clamp box type	each		2256	push type lock	each	37.00
2210	fan clamp U-type	each		2257	Earthing copper block & busbar	each	27.00
2211	5 amps (6KA) SP MCB	each	366.00	2258	1C-1.5mm connecting wire	m	40.00
2212	10 amps (6KA) SP MCB	each	366.00	2259	5/8 inch dia ms rod hook	kg	60.15
2213	16 amps (6KA) SP MCB	each	366.00	2260	3-phase 440V 15hp centrifugal pump motor	set	135,000.00
2214	20 amps (6KA) SP MCB	each	366.00	2261	3-phase 440V 30hp centrifugal pump motor	set	192,000.00
2215	32 amps (6KA) SP MCB	each	366.00	2262	2-Pin 5 amp Piono Socket	each	30.00
2216	40Amps (6KA) SP MCB	each	366.00	2263	1c, 4x400.0sq.mm (NYY) cable	m	16,248.00
2217	63Amps (6KA) SP MCB	each	902.00	2264	1c, 4x500.0sq.mm (NYY) cable	m	20,258.80
2218	20Amps (6KA) TP MCB	each	1,803.00	2265	1c, 4x630.0sq.mm (NYY) cable	m	25,490.56
2219	1/2"x1/2" thick CTW batten	m		2266	1c, 3x185+95sq.mm (2xRGY) cable	m	12,405.00
2220	GP sheet SB with ebonite cover	no		2267	1c, 3x240+120sq.mm (2xRGY) cable	m	15,950.00
2221	5A Piano switch	no		2268	1c, 3x300+150sq.mm (2xRGY) cable	m	19,705.00
2222	wooden block	no		2269	TP cable 1C-100x0.282sq.mm (50 pair)	m	370.75
2223	Bake light ceiling rose	no		2270	13 amps ,Flat pin Type	each	450.00
2224	GP sheet board with ebonite cover	m	25.00	2271	15 amps, Round pin type	each	550.00
2225	2-pin socket outlet	no		2272	3-phase 440V 40hp centrifugal pump motor	each	455,000.00
2226	1C-1.5sq.mm BYA ECC	m	16.27	2273	3-phase 440V 20hp centrifugal pump motor	each	163,000.00
2227	1C-2.5sq.mm BYA ECC	m	26.06	2274	50amps 3 phase starter for motor	each	14,500.00
2228	1C-4.0sq.mm BYA ECC	m	40.58	2275	3 amps (6KA) SP MCB	each	366.00
2229	1C-6.0sq.mm BYA ECC	m	60.61	2276	6 amps (6KA) SP MCB	each	366.00
2230	1C-10.0sq.mm BYA ECC	m	99.71	2277	16 Amps (6KA) TP MCB	each	1,803.00
2231	1C-16.0sq.mm BYA ECC	m	157.43	2278	125 amps (10 KA) TPMCCB	each	9,500.00
2232	1C-25.0sq.mm BYA ECC	m	246.98	2279	4-WAY SDB	each	800.00
2233	1C-35.0sq.mm BYA ECC	m	341.23	2280	6-WAY SDB	each	940.00
2234	1C-50.0sq.mm BYA ECC	m	486.53	2281	8-WAY SDB	each	1,310.00
2235	1C-70.0sq.mm BYA ECC	m	678.44	2282	10-WAY SDB	each	1,940.00
2236	1C-95.0sq.mm BYA ECC	m	913.04	2283	12-WAY SDB	each	2,160.00
2237	1C-120.0sq.mm BYA ECC	m	1,147.91	2284	10 Gallon/Hr water heater	each	7,250.00
2238	1C-150.0sq.mm BYA ECC	m	1,435.46	2285	15 Gallon/Hr water heater	each	8,500.00
2239	1/2" PVC Channel	m	20.00	2286	1c-25sq.mm(GNAT)	m	30.00
2240	3"x3" PVC Circular Box	no	22.00	2287	1c-50sq.mm(ANT)	m	57.00
2241	Regulator board	no	92.00	2288	1c-75sq.mm(EARWIG)	m	96.00
2242	5A call bell push with brass copper contact	no	41.00	2289	1c-100sq.mm(WASP)	m	135.00
2243	20mm dia PVC pipe	m	26.00	2290	20A DP SWITCH	each	600.00
2244	25mm dia pvc pipe	m	34.00	2291	Single tube light	set	1,250.00
2245	32mm dia pvc pipe	m	61.00	2292	Louver type double tube light	set	1,375.00
2246	40mm dia pvc pipe	m	78.00	2293	Flood light	set	6,750.00
2247	50mm dia pvc pipe	m	114.00	2294	Exit light	set	1,600.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2295	Ceiling concealed light	set	625.00	2342	Earthing for Solar system	each	9,500.00
2296	Ceiling light	set	650.00	2343	Solar Frame structure	Wp	16.00
2297	Boundary light	set	1,900.00	2344	Solar installation	Wp	8.00
2298	Gate light	set	5,000.00	2345	Solar Pump (D.C.)	each	155,000.00
2299	Street light	set	4,200.00	2346	Pole Light Fitting	each	18,000.00
2300	Louver light	set	3,100.00	2347	12 way plug in db box	each	14,500.00
2301	Gl pole 25'	each	15,500.00	2348	24 way plug in db box	each	16,500.00
2302	Gl pole 30'	each	22,800.00	2349	36 way plug in db box	each	20,000.00
2303	28w, t5 tube	each	165.00	2350	32A-63A (10 kA) DP MCB	each	1,150.00
2304	3w led	each	290.00	2351	Materials cost for LPS earthing	each	7,000.00
2305	5w led	each	415.00	2352	0-100A EM (double tariff)	each	8,500.00
2306	7w led	each	500.00	2353	saucer Light2	each	1,520.00
2307	9w led	each	700.00	2354	saucer Light3	each	1,780.00
2308	12w led	each	2,000.00	2355	Bracket Light2	each	800.00
2309	65w led street	each	24,000.00	2356	Bracket Light3	each	880.00
2310	150w sodium light	each	1,200.00	2357	Mirror Light2	each	800.00
2311	40hp pump	each	455,000.00	2358	Pendent Light2	each	1,877.00
2312	Profile spot light 1000w	each	53,000.00	2359	Pendent Light3	each	2,200.00
2313	Fr & pc spot light 1000w	each	52,000.00	2360	Foot Light2	each	720.00
2314	Fr & pc spot light 500w	each	45,000.00	2361	single tube set Light3	each	1,240.00
2315	Flood light with 500w	each	14,000.00	2362	single tube set Light4	each	2,100.00
2316	Flood light with 1000w	each	19,000.00	2363	single tube set Light5	each	1,380.00
2317	Par can 64	set	12,500.00	2364	single tube set Light6	each	1,420.00
2318	Scanner light	each	56,000.00	2365	double tube set Light3	each	2,960.00
2319	Zoom led	each	55,000.00	2366	flood Light2	each	16,620.00
2320	12 channel dimmer rack	each	165,000.00	2367	flood Light3	each	18,660.00
2321	Light control equipment	set	175,000.00	2368	flood Light4	each	5,000.00
2322	Light batten	set	16,000.00	2369	flood Light5	each	10,000.00
2323	Color gelatin filter	each	800.00	2370	Ceiling ConcealedLight2	each	530.00
2324	1000w quartz halogen	each	3,800.00	2371	Ceiling ConcealedLight3	each	720.00
2325	500w quartz halogen	each	3,200.00	2372	Ceiling ConcealedLight4	each	960.00
2326	1000w tungsten halogen	each	800.00	2373	Boundary/Garden Light5	each	2,850.00
2327	500w tungsten halogen	each	600.00	2374	Boundary/Garden Light6	each	4,200.00
2328	3 core 3x40/.0076(flexible) cable	m	64.00	2375	Boundary/Garden Light7	each	3,040.00
2329	Moon flower light	set	45,000.00	2376	Boundary/Garden Light8	each	5,700.00
2330	16 amps, Multi Switched Socket	each	650.00	2377	Boundary/Garden Light9	each	2,436.00
2331	With Load Break Switch (LBS)	each	460,000.00	2378	Boundary/Garden Light10	each	2,085.00
2332	Solar panel	Wp	50.00	2379	Boundary/Garden Light11	each	5,730.00
2333	Solar inverter 1000 watt	each	25,000.00	2380	securiry Light1	each	863.00
2334	Solar inverter 1500 watt	each	30,000.00	2381	securiry Light2	each	863.00
2335	Solar inverter 2000 watt	each	40,000.00	2382	street Light2	each	13,020.00
2336	Solar inverter 2500 watt	each	50,000.00	2383	street Light3	each	5,235.00
2337	Solar battery	each	18,450.00	2384	street Light4	each	20,000.00
2338	Charge controller 30A	each	34,000.00	2385	fountain Light1	each	6,755.00
2339	Charge controller 45A	each	45,000.00	2386	Tower/aviation light1	each	6,820.00
2340	Charge controller 60A	each	66,000.00	2387	Lake light 1	each	4,872.00
2341	Charge controller 80A	each	70,000.00	2388	OT Light	each	125,000.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate
2389	submersible pump4	each	105,000.00
2390	submersible pump5	each	121,000.00
2391	submersible pump6	each	132,000.00
2392	submersible pump7	each	146,000.00
2393	submersible pump8	each	187,000.00
2394	submersible pump9	each	210,000.00
2395	single phase centrifugal pump1	each	9,500.00
2396	single phase centrifugal pump2	each	11,300.00
2397	single phase centrifugal pump3	each	20,500.00
2398	single phase centrifugal pump4	each	26,500.00
2399	motor starter1	each	10,000.00
2400	motor starter2	each	12,000.00
2401	motor starter3	each	15,000.00
2402	motor starter4	each	17,500.00
2403	motor starter5	each	1,620.00
2404	Surge protection device	each	45,000.00
2405	1C-2x2.5 sq.mm (NYY) cable	m	87.64
2406	1C-2x4sq.mm. (NYY) cable	m	123.02
2407	1C-2x6sq.mm. (NYY) cable	m	171.48
2408	1C-2x10sq.mm. (NYY) cable	m	254.08
2409	1C-2x16sq.mm. (NYY) cable	m	378.98
2410	GI sheet	sft	300.00
2411	50mm Dia MS Socket	Nos.	150.00
2412	Early Streamer Emission Air Terminal (ESEAT).	each	220,000.00
2413	Stroke Counter & Recorder.	each	32,500.00
2414	Surge Protection Device (SPD) .	each	38,800.00
2415	2.3m long, 30mm dia, SS (Type : 316) Air Terminal Mast.	each	11,300.00
2416	GI Pole: Length: 15' (L-10', D-3"+ L-5', D-2") with 3 Guy wire.	each	8,900.00
2417	Down/Roof Copper Conductor 12.7mm dia or copper stip (30mm x 2mm).	m	1,420.00
2418	Earth test box.	each	780.00
2419	Aviation light fittings with LED lamp.	each	6,150.00
2420	Earthing (2 nos in 1 set) with Inspection Pit	each	100,000.00
2421	CAT-6 24 Port Patch panel.	each	7,950.00
2422	1U Cable Manager.	each	1,180.00
2423	6U Wall mounted Cabinet, Size:(540x450x327 mm).	each	9,600.00
2424	9U wall mounted network cabinet Size:(540x600x460 mm).	each	12,000.00
2425	42U Cabinet,Size:(600x1000x2072 mm).	each	57,000.00
2426	Core switch (Gigabit port) .	each	75,400.00
2427	24 port Managed Switch with Gigabit port.	each	39,000.00
2428	Cable tray.	m	2,390.00
2429	Cable ladder.	m	1,700.00
2430	40 watt LED panel light size:(600mmx600mm)	each	2,600.00
2431	2x 23w LED automatic emergency light.	each	3,600.00
2432	Telephone/ Dish Junction Board.	each	3,300.00

SL No	Basic Item	Unit	Rate
2433	supply of Lift Capacity 1150/1250Kg up to 3 Steps	each	6,310,000.00
2434	supply of Lift Capacity 1350/1400Kg up to 3 Steps	each	6,910,000.00
2435	supply of Lift Capacity 1500/1600Kg up to 3 Steps	each	7,095,000.00
2436	installation of Lift 1150/1250Kg -1500/1600Kg up to 6 stop	each	215,000.00
2437	3 phase 440V 4hp centrifugal pump motor	each	50,000.00

Termite Treatment Works & Furniture

2438	Heptachlor - 40 WP	kg	116.64
2439	Anti-termite chemical (Heptachlor -40WP or Dursbane ZOEC or Pyrifox ZOEC)	liter	572.63
2440	Dieldrin	ml	0.86
2441	Fumigant	ml	1.13
2442	Timberin (1 bottle of 500 ml)	bottle	540.00
2443	Brush	each	35.64
2444	Anti-termite treatment Chemicals Pestearthy	kg	1,670.00

Plumbing

2445	Flow-switch 150 mm dia	set	20,500.00
2446	Beam Smoke Detector	set	135,000.00
2447	12mm dia Pressure Reducing Valve (Ordinary)	set	2,783.00
2448	20mm dia Pressure Reducing Valve (Ordinary)	set	3,102.00
2449	25mm dia Pressure Reducing Valve (Ordinary)	set	3,850.00
2450	40mm dia Pressure Reducing Valve (Ordinary)	set	4,680.50
2451	50mm dia Pressure Reducing Valve (Ordinary)	set	8,222.50
2452	Emergency lock for Fire Door	set	7,500.00
2453	Water closet with seat cover and flushing unit, Size: 380x750x810 mm (COTO-Farah C118 or Equivalent)	set	13,990.00
2454	Fire Door Release Button	set	1,350.00
2455	600mm dia best quality heavy type CI manhole cover with locking arrangement	each	2,590.00
2456	600mm dia best quality heavy type CI manhole cover without locking arrangement	each	1,800.00

Furniture

2457	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	3,000.00
2458	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	2,700.00
2459	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	3,700.00
2460	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	3,700.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2461	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	19,290.00	2486	Computer Table (size :800Lx500Dx1400Hmm) of TCCP007LB	each	8,000.00
2462	Cot (2.13x1.07m) of jack wood including varnishing all finishing etc.	each	15,500.00	2487	Computer Table (size 600Lx480Dx750Hmm) of FTC 0660	each	3,942.00
2463	Table (1.08x0.76m) of jack wood including all varnishing finishing etc.	each	9,000.00	2488	Computer Table 650Lx400Dx750H mm size	each	2,288.00
2464	Tea table (standard size) of jack wood including all varnishing finishing etc.	each	3,000.00	2489	Steel Almirah 915Wx483Dx1929H mm size of FAE4201	each	25,366.00
2465	Secretariat Table (1.52x1.07x0.76m) of chittagong teak wood including all varnishing finishing etc.	each	20,000.00	2490	Steel File Cabinet 4 drawer 476Dx620Wx1390H mm size of FCOP003MS	each	21,090.00
2466	Dressing Table of Chittagong teak wood including Belgium mirror (1.08x0.41m) including all varnishing, finishing etc.	each	11,500.00	2491	Steel File Cabinet 3 drawer 476Dx620Wx1070H mm size of FCT 4230	each	15,590.00
2467	Dining Table of chittagong teak wood (1.83x0.96x0.76m) in/c all varnishing, finishing etc.	each	20,000.00	2492	Steel File Cabinet 2 drawer 476Dx620Wx746H mm size of FCD 4230	each	12,886.00
2468	Cushioned chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	6,000.00	2493	Armless chair standard normal of FCF 2307 LR	each	2,278.00
2469	Easy chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	12,000.00	2494	Armless chair standard medium of FCF 2308 LR	each	3,526.00
2470	Armed Chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	5,500.00	2495	Armless chair standard fancy light of CFVP001	each	4,000.00
2471	Armed Less Chair of jack wood (standard size) in/c all varnishing, finishing etc.	each	500.00	2496	Armed chair standard normal of FCF 2305/CFVP011	each	4,220.00
2472	Dress Stand of jack wood (standard size) in/c all varnishing, finishing etc.	each	3,000.00	2497	Armed chair standard medium of FCF 2303/2304	each	4,566.00
2473	Dress Stand with coat rack one side of jack wood (standard size) in/c all varnishing, finishing etc.	each	3,000.00	2498	Armed chair standard fancy light of FCF 2301/CFVP005	each	4,800.00
2474	Almirah of chittagong teak wood (1.52x1.07x0.46m) with in/c 4 shelves all varnishing, finishing etc.	each	22,000.00	2499	Official Table LB (Size : 1600LX850WX750Hmm) of FTL0560	each	9,246.00
2475	Almirah of chittagong teak wood (1.52x1.07x 0.46m) in/c glass front ,all varnishing, finishing etc.	each	22,000.00	2500	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0562	each	8,662.00
2476	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	19,290.00	2501	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0561	each	8,091.00
2477	Steel File Cabinet (1.37x0.46x0.61m) with 4 drawers made of 18 BWG steel sheet in/c all painting, finishing etc.	each	13,190.00	2502	Official Table LB (Size : 1400LX800WX750Hmm) of FTM0560	each	8,102.00
2478	Steel Chest of Drawer (1.37x1.22x0.53m) with 4 shelves made of 18 BWG steel sheet in/c all painting, finishing etc.	each	21,690.00	2503	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0562	each	7,582.00
2479	Whatnot (1.22x0.38x0.91m) with 3 shelves made of jack wood in/c all varnishing, finishing etc.	each	5,500.00	2504	Official Table LB (Size : 1200LX750WX750Hmm) of FTN0560	each	7,374.00
2480	Wood Box (1.22x0.91x0.76m) made of jack wood in/c all varnishing, finishing etc.	each	3,500.00	2505	Official Table LB (Size : 1200LX750WX750Hmm) of FTN0562	each	6,542.00
2481	Multipurpose shelf beech colour (size :1200Lx400Dx1800Hmm) of HSM 0380	each	12,470.00	2506	Senior Official Table LB (Size :1800LX1000WX750Hmm) of FTM0552	each	19,334.00
2482	Multipurpose shelf beech colour (size 800Lx400Dx1800Hmm) of HSM 0381	each	9,558.00	2507	Senior Official Table LB (Size :1600LX900WX 750Hmm) of TEOP005LB	each	19,430.00
2483	Multipurpose shelf beech colour (size :600Lx300Dx1800Hmm) of HSM 0387	each	7,478.00	2508	Senior Official Table LB(Size :1600LX850WX750Hmm) of FTM0553	each	11,326.00
2484	Computer Table (size :1100Lx600Dx750Hmm) of TCCP001LB	each	9,770.00	2509	Senior Official Table MDF (Size :1800LX900WX750Hmm) of FTM1301LB	each	37,326.00
2485	Computer Table (size 1000Lx500Dx750Hmm) of FTC 0661	each	6,438.00	2510	Senior Official Table MDF/EW (Size :1800LX1830WX 750Hmm) of TMOP022LB	each	24,900.00
				2511	Armed chair standard fancy heavy of FCF 2302	each	5,710.00
				2512	Swivel Chair without handle of FCJ 2262	each	5,086.00
				2513	Swivel Chair normal back with handle of FCJ 2261	each	5,918.00
				2514	Swivel Chair medium back with handle of FCN 2209/2210	each	9,974.00
				2515	Swivel Chair high back with handle of FCH 2209	each	11,628.00
				2516	Swivel Chair high back with handle (semi-executive type) of FCM 2215/FCH 2208/FCH 2214	each	12,158.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2517	Swivel Chair high back with handle (executive type) of FCH 2200	each	28,590.00	2545	Senior Official Table LB (Size :1600LX750W X750Hmm) of FTM6002	each	24,950.00
2518	Three Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0611	each	5,338.00	2546	Senior Official Table LB (Size : 1600LX750WX750Hmm) of TEOP022LB	each	12,440.00
2519	Three Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0610	each	5,710.00	2547	Senior Official Table LB (Size : 1400LX750WX750Hmm) of TEOP012LB	each	17,990.00
2520	Conference Table- Corner LB (size: 625Lx625Wx750Hmm) of FCM 0580	each	4,160.00	2548	Senior Official Table LB (Size :1400LX750W X 750Hmm) of TPOP001LB	each	13,880.00
2521	Conference Table- Short Middle LB (size: 600Lx600Wx750Hmm)- FCM 0581	each	4,160.00	2549	Senior Official Table MDF/EW (Size :2438LX1907WX750Hmm) of TMOP016WD	each	77,260.00
2522	Conference Table- Long Middle LB (size: 1200Lx600Wx750Hmm) of FCM 0582	each	6,136.00	2550	Senior Official Table MDF/EW (Size :2386LX1059WX750Hmm) of TMOP020WD	each	94,900.00
2523	Conference Table- Long Middle LB (size: 1400Lx600Wx750Hmm) of FCM 0583	each	6,552.00	2551	Senior officials Table-MDF/EW (Size: 1800Lx2175Wx750H mm) of HPL-500-125-2-1-67	each	55,640.00
2524	Conference Table- Long Middle LB (size: 1600Lx600Wx750Hmm) of FCM 0584	each	7,280.00	2552	Senior Official Table MDF/EW (Size :2150LX900WX750Hmm) of FTM1303	each	43,358.00
2525	Side Rack : 900Wx400Dx750H mm size of FCB 0651	each	6,136.00	2553	Senior officials Table-MDF/EW (Size: 1800Lx1800Wx750H mm) of HPL-500-128-2-1-88	each	58,814.00
2526	Side Rack : 750Wx400Dx750H mm size of FCB 0652	each	5,512.00	2554	Senior officials Table-MDF/EW (Size: 1800Lx1700Wx750H mm) of TMOP018WD	each	52,510.00
2527	Slotted Angle Rack (size : 1200Lx600Dx1800H mm size) of SROP002MS	each	22,000.00	2555	Senior Official Table MDF/EW (Size :1400LX800WX750Hmm) of FTM1304	each	22,870.00
2528	Slotted Angle Rack (size : 1145Lx300Dx 1830H mm size) of FRS 4251	each	13,936.00	2556	Swivel Chair without handle of CSEP154	each	6,500.00
2529	Combined Plastic 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	8,352.00	2557	Swivel Chair without handle of CSEP009	each	6,110.00
2530	Polypropylene Impact Copolymer Plastic Table : Size : - 838mm(L) x 533mm(W) x 775mm Table Top: Dimen 838mm(L) x 533mm(W) x 25mm(T).	each	5,750.00	2558	Swivel Chair normal back with handle of CSEP002	each	7,550.00
2531	Polypropylene Impact Copolymer Plastic Chair, Size:550mm(L)x515mm(W)x850m (H).	each	1,547.00	2559	Swivel Chair medium back with handle of CSSP001/CSEP061	each	9,770.00
2532	Official Table LB (Size : 1600LX800WX750Hmm) of FTL0563	each	8,102.00	2560	Swivel Chair medium back with handle of FCM 2211	each	9,246.00
2533	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0561	each	6,854.00	2561	Swivel Chair medium back with handle of FCM 2209/2210	each	10,390.00
2534	Official Table LB (Size : 1400LX750WX750Hmm) of FTM0563	each	6,542.00	2562	Swivel Chair high back with handle of CSSP002/003	each	11,100.00
2535	Official Table LB (Size : 1200LX700WX750Hmm) of TPOP001LB	each	13,880.00	2563	Swivel Chair high back with handle (semi-executive type) of CSPP004	each	14,770.00
2536	Official Table LB (Size : 1200LX700WX750Hmm) of FTM0561	each	8,102.00	2564	Swivel Chair high back with handle (executive type) of CSPP002	each	28,860.00
2537	Official Table LB (Size : 1200LX700WX750Hmm) of FTM0563	each	5,818.00	2565	Class Room Chair with bottom metal netting basket of FCC 2353	each	7,478.00
2538	Official Table LB (Size : 1000LX600WX750Hmm) of FTS0563	each	4,982.00	2566	Class Room Chair with bottom metal netting basket of HPL-508-203-10-1-00	each	5,200.00
2539	Senior Official Table LB (Size :1800LX1800WX750Hmm) of TMOP008LB	each	33,300.00	2567	Class Room Chair seat and back foam covering without basket of FCC 2351	each	4,046.00
2540	Senior Official Table LB (Size :1800LX800W X750Hmm) of TMOP004LB	each	30,870.00	2568	Class Room Chair without basket of FCC 2352	each	3,942.00
2541	Senior Official Table LB (Size :1800LX1800WX750Hmm) of TMOP019LB	each	22,540.00	2569	MS three seated group chair (size :1430Lx700WX890Hmm) of FCT 4274	each	16,006.00
2542	Senior Official Table LB (Size :1800LX1700WX750Hmm) of TMOP006LB	each	29,970.00	2570	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) of CFWP003	each	11,220.00
2543	Senior Official Table LB (Size :1800LX900WX750Hmm) of FTM0550LB	each	9,870.00	2571	Plastic three seated group chair with MS box seat and back frame (size :1430-1320Lx700-500WX890-800Hmm) of CFWP004	each	7,890.00
2544	Senior Official Table LB (Size : 1650LX800WX750Hmm) of FTM6001	each	29,110.00	2572	Wooden three seated group chair (size :1320Lx500WX800Hmm) of FCT 4270	each	9,870.00
				2573	Plastic three seated group chair (size :1430-1320Lx700-500WX890-800Hmm) of CFWP007	each	13,500.00
				2574	Three Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0620	each	5,190.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2575	Three Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0619	each	5,400.00	2609	Double mattress 2000x1600 size with minimum 200mm thick	each	18,170.00
2576	Two Drawer unit with wheel (size : 400Wx470Dx705H) of FDZ0617	each	4,160.00	2610	Single seated Sofa of SSCP006FR	each	8,110.00
2577	Two Drawer unit without wheel (size : 400Wx470Dx650H) of FDZ0618	each	3,952.00	2611	Single seated Sofa of SSCP012LR	each	16,540.00
2578	Armed chair standard normal of CFVE003	each	3,220.00	2612	Single seated Sofa of SSCP094FF	each	24,540.00
2579	Armed chair standard normal of FCF 2313	each	4,254.00	2613	Double seated Sofa of SDCP006FR	each	14,550.00
2580	Armed chair standard fancy heavy of CFVP006/007	each	6,110.00	2614	Double seated Sofa of STCP007LR	each	36,470.00
2581	Armed chair standard fancy heavy of FCV 2207/CFVP008	each	7,890.00	2615	Double seated Sofa of SDCP047FF	each	38,350.00
2582	Armed chair standard fancy heavy of FCV 2209/2210	each	8,518.00	2616	Wooden Single seated Sofa of SSCE009FF	each	14,440.00
2583	Armed chair standard fancy heavy of CFVP053	each	8,440.00	2617	Wooden Double seated Sofa of SDCE003FF	each	22,760.00
2584	Armed chair standard fancy heavy of FCV 2204	each	9,246.00	2618	Wooden Center Table of CTCE009WD	each	7,550.00
2585	Armed chair standard fancy heavy of CFVP012	each	9,990.00	2619	Wooden Center Table of CTCE008WD	each	7,000.00
2586	Armless chair standard normal of CFVE002	each	2,000.00	2620	Wooden Center Table of CTCP049WD	each	8,220.00
2587	Armless chair standard normal of FCF 2307 FF	each	2,500.00	2621	Wooden Dining Table (size : 1524Lx915Wx750H) of TDDP018WD	each	25,650.00
2588	Armless chair standard normal of CFVE005/006	each	2,560.00	2622	Wooden Dining Table (size : 1650Lx950Wx750H) of TDDP049WD	each	28,000.00
2589	Armless chair standard medium of FCF 2308 FF	each	3,942.00	2623	Wooden Dining Table (size : 1520Lx912Wx744H) of TDDP012MF	each	29,860.00
2590	Armless chair standard fancy thick Plastic seat and back of CFVP057	each	4,500.00	2624	Wooden Dining Table (size : 1650-1524Lx950-915Wx750-744H) of AFL-DNT/DNC-119	each	55,016.00
2591	Armless chair standard fancy light of CFVP010	each	4,890.00	2625	Wooden Dining Chair (size : 596Lx586Wx1025Hmm) of CFDP013LR	each	5,330.00
2592	Armless chair standard fancy light of CFVP030	each	5,650.00	2626	Wooden Dining Chair (size : 440Lx522Wx950Hmm) of CFDP049WD	each	6,500.00
2593	Multipurpose shelf beech colour (size : 800Lx350Dx1800Hmm) of HSM 0386	each	8,518.00	2627	Wooden Dining Chair (size : 410Lx475W x 895Hmm) of FCDB002FR	each	5,550.00
2594	Multipurpose shelf beech colour (size : 600Lx350Dx1800Hmm) of HSM 0382	each	7,998.00	2628	Wooden Dining Chair (size : 410Lx475Wx895Hmm) of AFL-DNT/DNC-119	each	13,156.00
2595	Computer Table (size : 1200Lx600Dx750Hmm) of TEOB002LB	each	9,250.00	2629	Round shaped Dining Table (size : 1600Lx910Wx730Hmm) of TDDP001LB	each	12,100.00
2596	Computer Table (size : 910Lx450Dx750Hmm) of SROP007LB	each	7,330.00	2630	4 Drawer Wooden Wardrobe (size: 830Lx515Wx1220Hmm) of CDDP018ED	each	31,530.00
2597	Computer Table (size : 1050Lx450Dx700Hmm) of TCCP001LB	each	8,880.00	2631	2 Drawer and bottom side box Wooden Wardrobe (size: 830Lx515Wx1220Hmm) of WDDP011ED/EDDP010WD	each	28,850.00
2598	Single Bed 2036Lx1080Wx750Hmm size of BSDB003LB	each	13,600.00	2632	4 Drawer and right side box Laminated Melamine Board (LB) Wardrobe (size: 1210L x 525W x1214Hmm) of WDDP005LB	each	23,750.00
2599	Double Bed 2042Lx1540Wx845Hmm size of BDDB019LB	each	18,210.00	2633	4 Drawer Laminated Melamine Board (LB) Wardrobe (size: 806Lx503Wx1006Hmm) of CDDB002KLB	each	14,500.00
2600	Double Bed 2050Lx1668Wx700Hmm size of BDDB007LB	each	19,900.00	Electro-Mechanic			
2601	Single Bed 2036Lx1080Wx750Hmm size of BSDP009WD	each	29,420.00	2634	Air-Cooler with out Remote Control (17000-18000 BTU/hr)-Window Type	each	71,000.00
2602	Double Bed 2050Lx1540Wx800Hmm size of BDDP050WD	each	32,350.00	2635	Air-Cooler with Remote Control (17000-18000 BTU/hr)-Window Type	each	73,000.00
2603	Double Bed 2084Lx1600Wx1050Hmm size of BDDP089WD	each	46,620.00	2636	Air-Cooler with out Remote Control (22500-24000 BTU/hr)-Window Type	each	81,000.00
2604	Double Bed 2084Lx1600Wx1050Hmm size of AFL-BED-150	each	54,132.00	2637	Air-Cooler with Remote Control (22500-24000 BTU/hr)-Window Type	each	83,000.00
2605	Double Bed 2084Lx1540Wx1050Hmm size of AFL-BED-150	each	48,516.00	2638	Split Air Cooler-Wall Mounted (17000-18000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	87,000.00
2606	Single mattress 2000x1000 size with minimum 100mm thick	each	10,000.00	2639	Split Air Cooler-Wall Mounted (22500-24000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	100,000.00
2607	Single mattress 2000x1000 size with minimum 200mm thick	each	15,000.00				
2608	Double mattress 2000x1600 size with minimum 100mm thick	each	13,880.00				

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate	SL No	Basic Item	Unit	Rate
2640	Split Air Cooler-Wall Mounted (30000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	140,000.00	2677	Counter Guide Shoe	each	3,270.00
2641	Split Air Cooler-Ceiling Suspended (18000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	105,000.00	2678	Bottom Roller	each	1,308.00
2642	Split Air Cooler-Ceiling Suspended (24000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	120,000.00	2679	V-Ribbed Belt	each	2,180.00
2643	Split Air Cooler-Ceiling Suspended (36000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	190,000.00	2680	Car Position Indicator	each	21,800.00
2644	Split Air Cooler-Ceiling Suspended (45000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	220,000.00	2681	Hall Position Indicator	each	9,810.00
2645	Split Air Cooler-Ceiling Suspended (54000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	240,000.00	2682	Decoder PCB For Hall position indicator	each	21,800.00
2646	Split Air Cooler-Cassette Type (17000-18000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	110,000.00	2683	Gear Oil (Synthetic)	each	2,071.00
2647	Split Air Cooler-Cassette Type (22500-24000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	124,000.00	2684	Rope Oil	each	436.00
2648	Split Air Cooler-Cassette Type (34500-36000 BTU/hr) in/c. all accessories, wires, copper pipes, etc.	each	187,000.00	2685	Uain Magnetic Contactor	each	9,265.00
2649	Scale and Corrosion Inhibitor	liter	650.00	2686	Relay For Brake	each	7,085.00
2650	Micro Biocide for Bacterial Control	liter	741.00	2687	Print PIOVECL 3 Q	each	114,450.00
2651	Alga Cide (Algae Control)	liter	774.00	2688	30 KVA Generator	each	1,225,000.00
2652	Closed Circuit Corrosion Inhibitor	liter	610.00	2689	40 KVA Generator	each	1,275,000.00
2653	Mother Board PCB ASILOG 3.Q	each	111,180.00	2690	60 KVA Generator	each	1,415,000.00
2654	CPU PCB FCID 360 Q	each	87,200.00	2691	80 KVA Generator	each	1,440,000.00
2655	Brake Module PCB MBB 3 M	each	92,650.00	2692	100 KVA Generator	each	1,660,000.00
2656	Safety Circuit PCB SKE 1.M	each	87,418.00	2693	150 KVA Generator	each	2,200,000.00
2657	Car interface PCB ICE 1.Q	each	109,218.00	2694	200 KVA Generator	each	2,770,000.00
2658	COP Interface PCB TIC	each	61,694.00	2695	250 KVA Generator	each	3,800,000.00
2659	PCB LONIOS 16 Q	each	56,680.00	2696	300 KVA Generator	each	4,230,000.00
2660	PCB LONBIO 16 Q	each	38,150.00	2697	400 KVA Generator	each	4,850,000.00
2661	PCB EBLON 2Q	each	88,290.00	2698	500 KVA Generator	each	5,820,000.00
2662	PCB EBCIM 68 Q	each	43,600.00	2699	Lift capacity 550kg	each	3,275,000.00
2663	Encoder Unit (Shaft Encoder)	each	89,598.00	2700	Lift capacity 650kg	each	3,380,000.00
2664	Photo Sensor-24V DC (PHUET)	each	88,000.00	2701	Lift capacity 750kg	each	4,100,000.00
2665	Print PVEC	each	316,100.00	2702	Lift capacity 1000kg	each	5,060,000.00
2666	Skip Module (85 BR)	each	318,280.00	2703	Lift capacity 1250kg(bed type)	each	7,100,000.00
2667	Ventilaion Assembly	each	92,650.00	2704	Lift capacity 1500kg(bed type)	each	7,600,000.00
2668	Thermostate	each	2,725.00	2705	Lift capacity 2000kg(cargo type)	each	9,200,000.00
2669	Assembly Motor	each	174,400.00	2706	Lift capacity 2500kg(cargo type)	each	9,500,000.00
2670	Door Contact Switch	each	3,815.00	2707	Next 01 stoppage	each	130,000.00
2671	Door Contact Bridge	each	763.00	2708	Anchorage of 7K13/ 7T13 System	set	3,600.00
2672	Assembly Counter Roller	each	5,000.00	2709	Anchorage of 12K13/ 12T13 System	set	5,000.00
2673	PCB LONIBV 1.Q	each	109,218.00	2710	Anchorage of 19K13/ 19T13 System	set	7,800.00
2674	Clutch Roller	each	545.00	2711	Anchorage of 7K15/ 7T15 System	set	7,000.00
2675	Rope Guide Roller	each	1,635.00	2712	Anchorage of 12K15/ 12T15 System	set	9,000.00
2676	Main Guide Shoe	each	3,815.00	2713	Anchorage of 19K15/ 19T15 System	set	10,500.00
				2714	Digital Topographical Survey & Collection of Hydraulic Data including equipment & transportation	km2	20,000.00
				2715	Digital Topographical Survey of Single Lane Road Alignment including equipment & transportation	km	15,000.00
				2716	1 hp submercibal	each	36,500.00
				2717	2 hp submercibal	each	74,000.00
				2718	3 hp submercibal	each	84,000.00
				2719	Unidirectional vocal microphone	each	12,000.00
				2720	Condenser microphone	each	29,500.00
				2721	Wireless microphone	each	55,000.00

Note: Basic Rate includes cost for carriage to site.

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate
2722	Mixing console	set	175,000.00
2723	Amplifire 500-750w	set	110,000.00
2724	Amplifire 175-300w	set	84,500.00
2725	Celling speaker 6-12w	set	8,500.00
2726	Auditorium speaker	set	48,000.00
2727	Stage monitor speaker	set	55,000.00
2728	Sound equalizer	set	60,000.00
2729	Microphone stand (floor type)	each	5,500.00
2730	Microphone stand (table type)	each	3,500.00
2731	Sound junction box	each	6,000.00
2732	Microphone cable	m	95.00
2733	Line array for speaker	each	32,000.00
2734	Instrumental microphone	each	22,000.00
2735	Rack for pa system	each	12,000.00
2736	Subwoofer of sound system	each set	125,000.00
2737	Projector	each	100,000.00
2738	Fogger machine	set	10,000.00
2739	Projection screen	set	100,000.00
2740	Voltage stabilizer	each	14,000.00
2741	Network cable	m	29.00
2742	CCTV system 8-channel	set	200,000.00
2743	CCTV system 16-channel	set	280,000.00
2744	IR camera	each	9,000.00
2745	21" LCD/LED MONITOR	each	20,000.00
2746	32" LCD/LED MONITOR	each	36,000.00
2747	8+32 line digital PABX	set	130,000.00
2748	Standard master telephone	set	9,500.00
2749	Single line telephone set	each	950.00
2750	Single line telephone set for executive	each	1,700.00
2751	Fan Regulator with switch	each	612.00
2752	Data Socket, RJ-45	each	875.00
2753	Main Auditorium Speaker	set	142,000.00
2754	Speaker	set	72,000.00
2755	Speaker(passive)	set	93,000.00
2756	column speaker1	set	13,500.00
2757	column speaker2	set	14,500.00
2758	column speaker3	set	13,500.00
2759	ceiling speaker	set	9,800.00
2760	power mixer amplifier	set	125,000.00
2761	Digital loudspeaker management	set	125,000.00
2762	crossover	set	55,000.00
2763	Audio multi effect processor	set	45,000.00
2764	24 channel mixing console	set	148,000.00
2765	Wireless Microphones (Hand Held Type)	set	47,000.00
2766	Wireless Microphones (clip Type)	set	44,500.00
2767	Control Unit for Conference system	set	107,000.00
2768	Table top chairman unit for Conference system1	set	29,500.00

SL No	Basic Item	Unit	Rate
2769	Table top delegate unit for Conference system2	set	29,700.00
2770	400 ah gel battery	set	27,500.00
2771	500 ah gel battery	set	32,500.00
2772	800 ah gel battery	set	59,000.00
2773	1000 ah gel battery	set	76,000.00
2774	LED PAR 64-30W	set	50,000.00
2775	DMX Controller 192	set	85,000.00
2776	Air compressor (screw type) 250 cfm with necessary piping arrangement and accessories.	Day	3,000.00
2777	5KVA Generatir with recoil start petrol Engine	each	161,110.00
2778	6KVA Generatir with Barrtry start Diesel Engine with canopy	each	362,000.00
2779	8 KVA Generatir with Barrtry start Diesel Engine with canopy	each	427,333.00
2780	10 KVA Generatir with Barrtry start Diesel Engine with canopy	each	447,192.00
2781	7.5 KVA Generatir with Barrtry start Diesel Engine with canopy	each	415,000.00
2782	PVC Centralizers for Soil Nails	each	50.00

Mechanical

2783	Lift capacity 450kg	each	3,125,240.00
2784	Element, Air Filter, Mitsubishi L200	each	4,000.00
2785	Element, Air Filter, Mitsubishi Pajero Sports	each	4,000.00
2786	Element, Air Filter, Toyota Hilux	each	4,200.00
2787	Element, Air Filter, Landcruiser Prado GX	each	3,200.00
2788	Element, Air Filter, Landcruiser Prado TX	each	3,200.00
2789	Element, Air Filter, Landcruiser Prado VX	each	4,500.00
2790	Element, Air Filter, Toyota Hiace	each	4,500.00
2791	Element, Air Filter, Toyota Corolla G	each	2,400.00
2792	Element, Air Filter, Toyota Corolla X	each	2,400.00
2793	Element, Air Filter, Toyota Probox DX	each	2,000.00
2794	Element, Air Filter, Premio F	each	2,400.00
2795	Oil Filter, Mitsubishi L200	each	1,700.00
2796	Oil Filter, Mitsubishi Pajero Sports	each	1,700.00
2797	Oil Filter, Toyota Hilux	each	1,400.00
2798	Oil Filter, Landcruiser Prado GX	each	1,500.00
2799	Oil Filter, Landcruiser Prado TX	each	1,400.00
2800	Oil Filter, Landcruiser Prado VX	each	3,000.00
2801	Oil Filter, Toyota Hiace	each	1,600.00
2802	Oil Filter, Toyota Corolla G	each	800.00
2803	Oil Filter, Toyota Corolla X	each	800.00
2804	Oil Filter, Toyota Probox DX	each	800.00
2805	Oil Filter, Premio F	each	800.00
2806	Fuel Filter, Mitsubishi L200	each	3,500.00
2807	Fuel Filter, Mitsubishi Pajero Sports	each	3,500.00
2808	Fuel Filter, Toyota Hilux	each	2,500.00
2809	Fuel Filter with cap, Toyota Hilux	each	9,500.00
2810	Fuel Filter, Landcruiser Prado GX	each	5,000.00

District : CUMILLA, B.BARIA, CHANDPUR

SL No	Basic Item	Unit	Rate
2811	Fuel Filter, Landcruiser Prado TX	each	6,000.00
2812	Fuel Filter, Landcruiser Prado VX	each	5,000.00
2813	Fuel Filter, Toyota Hiace	each	11,500.00
2814	Fuel Filter, Toyota Corolla G	each	4,500.00
2815	Fuel Filter, Toyota Corolla X	each	4,500.00
2816	Fuel Filter, Toyota Probox DX	each	4,500.00
2817	Fuel Filter, Premio F	each	4,500.00
2818	Spark Plugs, Normal, Toyota Corolla G	set	1,400.00
2819	Spark plugs, Iridium, Toyota Corolla G	set	7,000.00
2820	Spark Plugs, Normal, Toyota Corolla X	set	1,400.00
2821	Spark plugs, Iridium, Toyota Corolla X	set	7,000.00
2822	Spark Plugs, Toyota Probox DX	set	1,400.00
2823	Tyre Size: 185/65R14	each	10,580.00
2824	Tyre Size: 185/70R14	each	11,300.00
2825	Tyre Size: 195/70R15C-6	each	13,000.00
2826	Tyre Size: 215/80R15	each	17,800.00
2827	Tyre Size: 215/80R16	each	18,350.00
2828	Tyre Size: 205/80R16	each	19,990.00
2829	Tyre Size: 265/65R17	each	24,200.00
2830	Tyre Size: 265/70R16	each	21,100.00
2831	Battery Type: NS60/L/S	each	6,960.00
2832	Battery Type: NX120-7/L	each	11,760.00
2833	Battery Type: N100	each	9,550.00
2834	Battery Type: N100Z	each	10,550.00
2835	Spark Plugs, Toyota Premio F	set	1,400.00

SL No	Basic Item	Unit	Rate

Appendix 2

Rates of Hire Charge of Equipment
and
Machinery per Unit Quantity of the Work Done

HIRE CHARGE OF EQUIPMENT AND MACHINERY IMPORTANT POINTS TO NOTE

The Department has no obligation and bears no responsibility to supply the machinery, equipment or transport to the contractors for implementation of their Contracts. However, it may organize pools of certain construction, equipment, machinery and transport provided those are available. Otherwise, it will be the sole responsibilities of the Contractor to arrange for all construction, equipment, machinery, transport, small tools and plants and all others required by the work for its satisfactory implementation.

In the case the machinery, equipment or transports are provided by the Department on rental basis, the hire charges shall have to be recovered from the Contractor(s) at the rates shown in the succeeding pages.

The Engineer-in-charge (E-I-C) and the Contractors should note the following Terms and Conditions on the above:

1. The Engineer-in-charge shall organize the rental arrangements in such a manner that ensures optimum utilization of the equipment, machinery or transport available with the Department. He should issue them for minimum number of days that the Work requires.
2. All hire charges per day comprise 8 hours, which exclude the cost of transportation to and from the site. Hire charge for any fraction of a day will be treated as the charge for the full day.
3. All costs of fuel, lubricants, etc. shall be borne by the contractors.
4. The Department will undertake major repair works (above Tk. 10000). But the Contractor(s) shall be responsible for minor repairing works upto Tk. 10000 at his/their own cost.
5. Servicing if required shall be undertaken by the Contractors at their own cost as per direction of the Engineer-in-charge.
6. Idle period arising from any problem shall not be the cause for consideration of reduction of hire charges.
7. The equipment, machinery or transport must not be used beyond 8 hours per day.
8. If the Contractors fail to deliver back the equipment/machinery/transport within the allowed time, the Engineer-in-charge has the right to withdraw them and transfer them to other site or garage. The cost of such transportation shall be realized from the Contractors bill. Similarly, if the Contractors fail to make minor repairing works, servicing, etc. the E-I-C may get the same repaired/serviced and the cost thereof shall also be realized from the Contractor's bill.
9. Security and safety of the equipment/machinery/transport will be the responsibilities of the Contractor(s) for the period between the time of delivery and till their return to the garage.
10. Total payable amount on account of rental of the equipment/machinery/transport will be calculated in the following manner:
 - (i) Amount of works executed multiplied by the rate fixed in the succeeding pages
 - (ii) Number of days the equipment remains within the possession of the Contractor (except break-down period) multiplied by the per day hire charge of the equipment as shown at Appendix-2.
 - (iii) Out of the two as stated above the higher amount shall be deducted from the Contractor's bill and deposited to the appropriate head of accounts of the Government.
11. All contractors should use LGED's equipment in the development work of LGED. Contractor shall not be allowed to use/ hire other government/semi-government/private equipment in LGED's construction, repair and maintenance works.

12. To use contractor's own equipment, he/she shall provide proper description of construction equipment along with sufficient evidences for the ownership of the same during submission of tender. If it is not mention in his/her tender during submission, the contractor shall have to use LGED construction equipment without any cavil or argument. LGED engineers are instructed to include this condition while preparing tender document.
13. In any case of failure to provide construction equipment from LGED, a certificate from the concerned executive engineer must have to be collected and only then the contractor may use/ hire equipment in his alternative management. This certification of the non-availability of LGED equipment must be submitted with the bill; otherwise, the bill amount for hire charge will be deducted.

Quantity-Wise Hire Charge of Equipment

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
2.02.2.02	EFW(AE): Earth filling work with specified soil in any type of embankment..... 95% Compaction	cum						21.00	
2.02.2.03	EFW(AE): Earth filling work with specified soil in any type of embankment..... 98% Compaction	cum						27.00	
2.02.3.02	EFW(CE): Earth filling work with specified soil in any type of embankment..... Outside municipal area 95% Compaction	cum						21.00	
2.02.3.03	EFW(CE): Earth filling work with specified soil in any type of embankment..... Outside municipal area 95% Compaction	cum						27.00	
2.02.3.05	EFW(CE): Earth filling work with specified soil in any type of embankment..... Within municipal area 95% Compaction	cum						21.00	
2.02.3.06	EFW(CE): Earth filling work with specified soil in any type of embankment..... Within municipal area 98% Compaction	cum						27.00	
2.02.4.01	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Initial Distance within 300m	cum						27.00	
2.02.4.02	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 300m to 600m	cum						27.00	
2.02.4.03	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 600m to 1.0km	cum						27.00	
2.02.4.04	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 1.0km to 2.0km	cum						27.00	
2.02.4.05	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 2.0km to 3.0km	cum						27.00	
2.02.4.06	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 3.0km to 4.0km	cum						27.00	
2.02.4.07	EFW(DrS): Earth filling work in any type of embankment/pond/low lands with suitable dredged soil Distance 4.0km and above	cum						27.00	
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 of the road embankment	cum						21.00	
3.01.1	BP: Preparation of bed by cutting and filling including watering & compacting by appropriate mechanical means etc.	sqm	2.80						
3.01.3.2	BC&SGC(300mm): Earth work in box cutting on road crest up to 300mm depth, maintaining proper grade.....compacting the sub-grade by appropriate mechanical means.....	sqm	3.15						

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
3.01.3.3	BC&SGP(300mm): Earth work in box cutting on road crest up to 300mm depth, maintaining proper grade.....Compacting the sub-grade by appropriate mechanical means.....	sqm	5.78						
3.01.4.2	BC&SGC(450mm): Earth work in box cutting on road crest up to 450mm depth, maintaining proper grade.....Compacting the sub-grade by appropriate mechanical means.....	sqm	3.15						
3.01.4.3	BC&SGP(450mm): Earth work in box cutting on road crest up to 450mm depth, maintaining proper grade..... Compacting the sub-grade by appropriate	sqm	5.78						
3.02.1.1	Sand (FM 0.50) filling on the road bed in the improved sub-grade Compacting the improved sub-grade by appropriate mechanical means.....	cum						24.00	
3.02.1.2	Sand (FM 0.80) filling on the road bed in the improved sub-grade Compacting the improved sub-grade by appropriate mechanical means.....	cum						24.00	
3.02.1.3	Filling the road bed in the improved sub-grade with locally available sand (passing <=15% through #200 sieve)..... Compacting the improved sub-grade by appropriate mechanical means.....	cum						24.00	
3.02.3	CISG: Labour for spreading & compaction of Improved Subgrade consisting of sand having compacted thickness..... Compacting the improved sub-grade by appropriate mechanical means.....	cum						24.00	
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..... Dry rolling followed by wet rolling in layers of specified loose	cum						30.00	
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 Compacting with 8~10 tonne road roller.....	cum						30.00	
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 Compacting with 8~10 tonne road roller.....	cum						30.00	

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
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 Compacting with 8~10 tonne road roller.....	cum						30.00	
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 Compacting with 8~10 tonne road roller.....	cum						30.00	
3.03.4.1	SBBC(70:30): Providing compacted aggregate sand sub-base course with 38mm down Crusher run 1st class bricks/picked chips of 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 Compacting with 8~10 tonne road roller.....	cum						30.00	
3.03.4.2	SBSC(50:50): Providing compacted aggregate sand sub-base course with 38mm down 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 Compacting with 8~10 tonne road roller.....	cum						30.00	
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 Compacting with 8~10 tonne road roller.....	cum						30.00	
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 Compacting with 8~10 tonne road roller.....	cum						30.00	
3.05.6	CWBM: 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 Compacting with 8~10 tonne road roller	cum						66.00	

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
3.05.7.1	WBMBC: Providing compacted base course, including spreading and compacting 50mm down graded crusher run 1st class and Picked brick chips (LAA value not exceeding 40%)including supplying of required amount of 12mm down graded chips, ... Compacting with 8~10 tonne road roller	cum						66.00	
3.05.7.2	WMMBC: Providing compacted base course, including spreading and compacting 38mm down graded aggregates as specified in the relevant item of LGED road design standard or wet mix macadam specification (LAA value not exceeding 40%), ...Compacting with 8~10 tonne road roller ...	cum						90.00	
3.05.8.1	WBMSC: Providing compacted base course by supplying, spreading and compacting 50mm down graded crusher run stone chips(LAA value not exceeding 35%) including supplying of required amount of 12mm down graded chips made of same quality stone, ... Compacting with 8~10 tonne road roller	cum						90.00	
3.05.8.2	WMMSC: Providing compacted Stone aggregate base course by supplying, spreading and compacting 38mm down graded stone chips as specified in the relevant item of LGED road design standard or wet mix macadam specification (LAA value not exceeding 35%, ... Compacting with 8~10 tonne road roller	cum						90.00	
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 or 80/100 penetration grade straight run bitumen, ... by mechanical distributor	sqm		1.01					
3.06.2.3	TCMD@0.50: Providing tack coat @0.50kg/sqm with 60/70 or 80/100 penetration grade straight run bitumen, ... by mechanical distributor	sqm		1.13					
3.06.2.4	TCMD@0.75: Providing tack coat @0.75kg/sqm with 60/70 or 80/100 penetration grade straight run bitumen, ... by mechanical distributor	sqm		1.13					
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,.....with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons)								
3.06.3.1.01	[Bitumen Grade 80/100]	sqm				1.50	1.50		
3.06.3.1.02	[Bitumen Grade 60/70]	sqm				1.50	1.50		

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
3.06.3.2	15mmWC: Providing 15mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course,..... Compacting with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons),.....								
3.06.3.2.01	[Bitumen Grade 80/100]	sqm				2.10	2.10		
3.06.3.2.02	[Bitumen Grade 60/70]	sqm				2.10	2.10		
3.06.4.1	25mmBC: Providing 25mm thick (minimum) compacted pre-mixed bituminous carpeting..... with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons).....								
3.06.4.1.01	[Bitumen Grade 80/100]	sqm				3.00	3.00		
3.06.4.1.02	[Bitumen Grade 60/70]	sqm				3.00	3.00		
3.06.4.2	25mmDC: Providing 25mm thick (minimum) compacted pre-mixed dense bituminous surfacing - wearing course,.....with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons)								
3.06.4.2.01	[Bitumen Grade 80/100]	sqm				3.00	3.00		
3.06.4.2.02	[Bitumen Grade 60/70]	sqm				3.00	3.00		
3.06.5.1	40mmBC(BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed bituminous carpeting with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons)	sqm				4.80	4.80		
3.06.5.2	40mmDC(BG-60/70): Providing 40mm thick (minimum) compacted pre-mixed dense bituminous surfacing - wearing course,..... with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons)	sqm				4.80	4.80		
3.06.6	50mmBC(BG-60/70): Providing 50mm thick (minimum) compacted pre-mixed bituminous carpeting with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons)	sqm				6.00	6.00		
3.06.7	DCPM: Laying pre-mixed dense bituminous surfacing - wearing course (plant method) with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons),.....								
3.06.7.1	[Bitumen Grade 80/100]	cum				180.00	180.00		
3.06.7.2	[Bitumen Grade 60/70]	cum				180.00	180.00		
3.06.8	BMPM: Providing and Laying pre-mixed bituminous macadam with hot mix plant (plant method) with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons),.....								
3.06.8.1	A. For Grading -1, [Bitumen Grade 60/70] (25mm nominal size, 50-75mm thick.)	cum				180.00	180.00		
3.06.8.2	B. For Grading -2, [Bitumen Grade 60/70] (25mm nominal size, 75-100mm thick.)	cum				180.00	180.00		

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
3.10.01.2	HBPM : 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,, ... rolling with 8 to 10 MT road roller, ...	sqm	2.10						
3.10.03	25mmSGSS : Providing 25mm thick (average) grouting with 20mm down graded broken stone shingles metal (LAA value not exceeding 35) and using 60/70 or80/100 penetration grade straight run bitumen, ..compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.04.1	50mmSGBC : Providing 50mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.04.2	50mmSGSS : Providing 50mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 or80/100 penetration grade straight run bitumen..... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.04.3	50mmSGSC : Providing 50mm thick (average) grouting with broken stone metal (LAA value not exceeding 35) and using 60/70 or80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.05.1	75mmSGBC : Providing 75mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.05.2	75mmSGSS : Providing 75mm thick (average) grouting with broken stone shingles (LAA value not exceeding 35) and using 60/70 or80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.05.3	75mmSGSC : Providing 75mm thick (average) grouting with stone metal (LAA value not exceeding 35) and using 60/70 or80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.06	100mmSGBC : Providing 100mm thick (average) grouting with picked brick chips (LAA value not exceeding 40) and using 60/70 or 80/100 penetration grade straight run bitumen, ... compaction with Vibratory Road Roller (8-10 ton),.....	sqm						9.00	

Item Code	LGED Schedule of Items of work for which the equipment in used	Unit	Rates of hire charge of the equipment per unit quantity of the work done. (This hire charge are exclusive of cost of fuel and lubricant)						
			H.C. of 3 Wheel Static Road roller (8-10 ton)	H.C. of Distributor	H.C. of Pneumatic Multiple Tired Roller (7 tires, 6-8 tons)	H.C. of Pneumatic Multiple Tired Roller (7 tires, 8-10tons)	H.C. of Vibratory (Ride On) Roller 2-Steel Drum Compactor (3-5 tons)	H.C. of Vibratory Road Roller (8-10 ton)	H.C. of Vibratory Roller (Ride On) 2 Steel Drum Compactor (1-3 tons)
1	2	3	4	5	6	7	8	9	10
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, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
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, ... compaction with Vibratory Road Roller (8-10 ton), ...	sqm						9.00	
3.10.08.1	CS@0.75MD: Providing a single coat chip sealing over a low cracked road surface, using 60/70 or 80/100 penetration grade straight run bitumen, .. spraying bitumen by mechanical distributor on road surface @ 0.75kg/sqm,..... surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons).....	sqm		1.13	0.90				
3.10.08.2	CS@1.00MD: Providing a single coat chip sealing over a moderate cracked road surface, using 60/70 or 80/100 penetration grade straight run bitumen, .. spraying bitumen by mechanical distributor on road surface @ 1.00kg/sqm,..... surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons).....	sqm		1.13	0.90				
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, ... spraying bitumen emulsion by mechanical distributor on road surface @ 1.00kg/sqm,..... surface rolling to embed the aggregate with Pneumatic Multiple Tired Roller (7 tires, 6-8 tons).....	sqm		1.13	0.90				
3.10.09	12mmSC: Providing 12mm thick (minimum) compacted pre-mixed bituminous surfacing - wearing course to be prepared using 10mm down, 6mm down graded crushed stone chips & Stone Dust,..... Compacting with appropriate Steel Drum Roller (3-5 tons) & pneumatic multiple tire roller (8-10 tons), ...								
3.10.09.01	[Bitumen Grade 80/100]	sqm				2.40	2.40		
3.10.09.02	[Bitumen Grade 60/70]	sqm				2.40	2.40		

Appendix 3

Gradation of Aggregate

Aggregate Grading

Aggregate Grading for Sub-Base & Base Course

Sieve Size (mm)	% Passing By Weight	
	Grading for Sub-Base Course	Grading for Base Course/WMM
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

Aggregate Grading**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

Appendix 4

Item of Work, Type of Test,
Test Frequency
&
Testing Fees

Laboratory Test Frequency, LGED

Sl No.	Item of Works	Type / 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

Sl No.	Item of Works	Type / Name of test	Test Frequency No Per or Part
6	Brick on End Edging	i) Compressive Strength	Set 1,000 m
		ii) Water Absorption	Set 1,000 m
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
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 wt. , 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.

TEST FEES FOR QUALITY CONTROL TEST, LGED

Sl No	Name of Test	Unit	Rate
A. CEMENT :			
1	Normal Consistency	Each	300.00
2	Setting Time	Each	700.00
3	Compressive Strength (3,7,28 days) (Each Set comprises with 3 cubes)	Set	1,200.00
4	Fineness by sieve	Each	500.00
B. AGGREGATE :			
1	Sieve analysis of Coarse Aggregate	Each	400.00
2	Sieve analysis of Fine Aggregate	Each	400.00
3	Materials Finer than Sieve no. 200 by Washing	Each	400.00
4	Unit weight	Each	400.00
5	Absorption of Coarse Aggregate	Each	300.00
6	Sp Gravity	Each	600.00
7	Los Angeles Abrasion	Each	1,000.00
8	Ten Percent Fines value(TFV)	Each	1,800.00
9	Aggregate Crushing Value	Each	900.00
10	Aggregate Impact Value	Each	600.00
11	CBR of Coarse Aggregate	Each	8,000.00
12	CBR of Fine Aggregate	Each	7,000.00
13	DCP Test	Each	200.00
14	Standard Proctor Test	Each	1,500.00
15	Modified Proctor Test	Each	1,800.00
16	Field Density by Sand Cone Method	Each	800.00
17	Field Density by Core-Cutter Method	Each	400.00
18	Voids Ratio	Each	300.00
19	Soundness of Aggregate	Each	2,000.00
20	Elongation Index (EI)	Each	300.00
21	Flakiness Index (FI)	Each	200.00
22	Moisture Content	Each	100.00
C. BRICK :			
1	Compressive Strength (12 Nos.)	Set	1,400.00
2	Water Absorption (6 Nos.)	Set	1,000.00
3	Size & Shape (24Nos)	Set	300.00
4	Weight (5Nos)	Set	200.00
5	Efflorescence (5 Nos.)	Set	300.00

Sl No	Name of Test	Unit	Rate
D. CONCRETE:			
1	Compressive Strength Cylinder (Each set comprises with 3 specimen)	Set	600.00
2	Compressive Strength of Cube (Each set comprises with 3 specimen)	Set	400.00
3	Concrete Cylinder Casting & Testing (Each set comprises with 3 specimen)	Set	700.00
4	Concrete Cube Casting & Testing (Each set comprises with 3 specimen)	Set	600.00
5	Slump test	Each	150.00
6	Design of Concrete Mixes	Each	10,000.00
7	Impact of Hammer Test	Each	1,000.00
8	Core Cutter		
	i) Cutting & Testing	Each	5000.00
	ii) Transportation TK.500/day+	Per Km	15.00
E. Bitumen :			
1	Softening Point (R& B)	Each	1,000.00
2	Specific Gravity	Each	1,000.00
3	Flash & fire point	Each	1,000.00
4	Loss-on-heating test	Each	1,000.00
5	Standard Penetration	Each	1,000.00
6	Core cutter		
	i) Cutting	Each	2,000.00
	ii) Transportation Tk. 500/day+	Per km	15.00
7	Bituminous material Test		
	i) Sample Preparation (Each set comprises with 3 specimen.)	Set	5,000.00
	ii) Stability & Flow	Set	3,000.00
	iii) Asphalt Mix Design	Each	6,000.00
8	Bitumen Extraction	Each	700.00
F. Soil :			
1	Natural Moisture Content	Each	100.00
2	Liquid Limit	Each	300.00
3	Plastic Limit	Each	300.00
4	Shrinkage Limit	Each	960.00
5	Unit weight	Each	400.00
6	Specific Gravity	Each	600.00
7	Sieve & Hydrometer combined Analysis +Specific gravity	Each	1,200.00
8	Sand equivalent test	Each	2,500.00
9	Void ratio	Each	300.00
10	Organic matter content	Each	1,500.00
11	Unconfined Compression Strength test	Each	1,200.00
12	Consolidation test	Each	3,000.00
13	Field Vane Shear Test for cohesive Soil	Each	1,500.00

Sl No	Name of Test	Unit	Rate
14	Direct Shear test		
	i) Unconsolidated Untrained	Each	1,500.00
	ii) Consolidated Untrained	Each	1,600.00
	iii) Consolidated Drained	Each	2,500.00
15	Triaxial Shear Test		
	I) Unconsolidated Undrained	Each	1,500.00
	ii) Consolidated Undrained	Each	2,500.00
	iii) Consolidated Undrained without pore pressure	Each	1,500.00
	iv) Consolidated Drained	Each	3,500.00
16	Permeability		
	i) Cohesive	Each	2,000.00
	i) Non -Cohesive	Each	1,000.00
G. Sub-Soil Investigation:			
Sub-soil exploration & testing to be executed according to the advice of design unit, LGED in regards to the no. of bore hole, types & no. of laboratory test.			
1	Mobilization and demobilization of boring equipment such as drilling rig, drilling pipes, drop hammer, tripod, pulley, chain wrangle, sample collection devices tools and plants tripod for temporary camp,& arrangement for water supply, other accessories and manpower at work site within 25 km from district head qtrs. etc all complete and accepted by the Engineer.	Per site	5,796.39
2	Field visit and inspection of sampling by the Geo-tech. Expert/Engineer	Per site	3,678.69
3	Erection and placement of boring equipment at site		
	i) On dry ground a site with 0-0.75m depth of water	Per point	1,133.04
	ii) A site with water depth between 0.75m and 3m	Per point	2,552.67
	iii) A site with water depth above 3m	Per point	3,974.00
4	Execution of Boring : Drilling 100 mm dia bore-hole by wash boring method		
	i) 0 to 9 meter	m	75.21
	ii) 9 meter to 18 meter	m	82.73
	iii) 18 meter to 27meter	m	90.25
	iv) 27meter to 36 meter	m	100.03
	v) 36 meter to 45 meter	m	109.05
	v) Above 45 meter	m	120.88
5	Execution of Standard Penetration Test :		
	i) 0 to 9 meter	Per Point	30.79
	ii) 9 meter to 18 meter	Per Point	34.28
	iii) 18 meter to 27meter	Per Point	37.10
	iv) 27meter to 36 meter	Per Point	47.88
	v) 36 meter to 45 meter	Per Point	58.20
	v) Above 45 meter	Per Point	62.95
6	Collection of Disturbed Samples at every 1.5 m interval & Identification	Per Sample	52.60
7	Collection of Undisturbed soil Samples by Shelby Tube from cohesive layer including preservation, transportation and accepted by the Engineer (ASTM D-1587-83)	Per Sample	109.26

Sl No	Name of Test	Unit	Rate
Mapping & Reporting			
1	Preparation of Topographic map of the site	Per site	7,000.00
2	Preparation, writing and submission of report on sub-soil investigation containing all parameters, bearing capacities, x-sections, two or more sets of data etc. all complete as per satisfaction and direction of engineer in-charge.	Per site	3,293.65
Plate Load Test			
1	Plate load test: mobilization, demobilization arrangement of plates for loading and all other required materials, execution of tests recording the data, preparation and submission of test report and accepted by the Engineer-in charge.	Per test	7,970.49
Cone Penetration Test (CPT)			
1	Electronic Cone Penetration Test with pore pressure measurement, dissipation test up to 50m depth to measure friction angle, un-drained shear strength, SPT N60, Relative density, pore pressure etc. Test on- ground surface	Each	98,098.36
2	Electronic Cone Penetration Test with pore pressure measurement, dissipation test up to 50m depth to measure friction angle, undrained shear strength, SPT N60, Relative density, pore pressure etc. Test on- water	Each	1,56,957.38
H. Reinforcement:			
1	Tensile Strength (Bar dia up to 19mm)	Set	1,000.00
2	Tensile Strength (Bar dia > 19mm - 40mm)	Set	1,200.00
3	Bend (Bar dia up to 19mm)	Set	200.00
4	Bend (Bar dia > 19mm - 40mm)	Set	300.00
I. Miscellaneous.			
1	Calibration of Pressure gauge	Per	4,000.00
2	Calibration of Hydraulic Jack without Pressure Gauge	Per	10,000.00
3	Calibration of Hydraulic Jack with Pressure Gauge	Per	15,000.00
4	Calibration of Deflection dial	Per	1,000.00
5	Calibration of Compression Testing Machine	Each	5,000.00
6	Calibration of Proving Ring	Each	3,000.00
7	Pile Integrity Test		
	Initial 1 set (comprises of 10 nos. or part)	Set	21,000.00
	For each additional pile	Each	1,600.00
8	Bearing Pad		
	i) Hardness (ASTM D-2240)	Each	1,500.00
	ii) Test of Compression Set for 22hr at 100°C (ASTM D-395)	Each	4,000.00
	iii) Ash Content	Each	2,500.00
	iv) Short Duration Compression	Each	3,500.00
	v) Long Duration Compression	Each	7,000.00
	vi) Vulcanized Bond Test (ASTM D-429) Method-B	Each	4,000.00
	vii) Test of Shear Modulus (ASTM D-4014)	Each	4,000.00
	viii) No. and thickness of Elastomer layer and Steel Plate	Each	1,500.00

In case of smaller works up to an estimated cost of 10,00,000.00 (Ten lac) for each individual work, adherence to the prescribed lab test frequency is not mandatory. The concerned Engineer can determine the test frequency according to the practical needs and demands and then perform those tests in the field to ensure quality.

Appendix 5

- Unit Conversions
- Cross-Sectional Area & Mass of Round Bar
- Wire and Sheet Metal Gages in Decimals of an Inch
- Unit Weight of Different Engineering Materials
- Miscellaneous Measurement Relations

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 lb = 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 lb (avoir)	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 lb = 9.807 N 1 tonne = 10 quintal = 1000 kg = 26.7923 mound 1 kg = 0.01968 cwt 1 ton = 2200 lb = 907.2 ka.
	1 kip	453.6 kg	4.4482 kN	1 kN	101.96 kg	224.81 lb	
	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 lb/in	1 kg/m = 9.80 N/m
	1 lb/ft	1.488 kg/m	0.0146 kN/m	1 kN/m	101.96 kg/m	68.52 lb/ft	= 0.672 lb/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 lb/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 le m ² = 14.223lb/ft ²
	1 lb/ft ²	4.883 kg/m ²	47.8803 kN/m ²	1 kN/m ²	101.92kg/m ²	20.885 lb/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 lb/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 lb/in ³	1 kg/m ³ = 0.0624 lbltt'
	1 lb/tt ³	16.02 kg/m ³	0.1572 kN/m ³	1 kN/m ³	101.92 kg/m ³	6.361 lb/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/m ²	20.885 lb/ft ²	1 Pa = 1N/m ²
	1 lb/ft ²	4.883 kg/m ²	47.8803 Pa				1 kN = 224.809 lbs
							1 kg/cm ² = 14.223 lb/in ²
							1 ft. of water = 2.989 kPa
Moment/ Torque	1 lb-in	11.5214 kg-mm	112.98 N-mm	1 N-mm	0.102 kg-mm	0.0088 lb-in	
	1 lb-ft	0.1383 kg-m	1.3558 N-m	1 N-m	0.102 kg-m	0.738 lb-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/sec	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 ⁰ -32)/1.8 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 J = 1 Nm 1 hp = 1.01387 metric hp = 1550 ft-lb/sec 1 W = 1 J/sec
	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 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 BAR¹

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's			0.4615	0.58	0.625	0.464	
5/0's			0.4305	0.5165	0.5883	0.432	0.5
4/0's			0.3938	0.46	0.5416	0.4	0.454
3/0's			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	0.0148	0.014
29	9	0.0135	0.015	0.0113	0.0139	0.0136	0.013
30	8	0.012	0.014	0.01	0.0123	0.0124	0.012
31	7	0.0105	0.0132	0.0089	0.011	0.0116	0.01
32	6.5	0.0097	0.0128	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 *	lb/rft	kg/meter
Asphalt	66	1057	$\frac{3}{4} \times \frac{1}{8}$	20 x 3	0.32	0.471
Aluminium	165	2643	$\frac{3}{4} \times \frac{3}{16}$	20 x 5	0.48	0.785
Bamboo	25	400	$\frac{3}{4} \times \frac{1}{4}$	20 x 6	0.64	0.942
Bitumen	65	1040	$1 \times \frac{1}{8}$	25 x 3	0.43	0.589
Brass	534	8552	$1 \times \frac{3}{16}$	25 x 5	0.64	0.981
Bricks	69	1110	$1 \times \frac{1}{4}$	25 x 6	0.85	1.178
Brick ballast	60-70	960-1120	$1 \frac{1}{4} \times \frac{1}{8}$	30 x 3	0.53	0.707
Brick chips	80-110	1280-1760	$1 \frac{1}{4} \times \frac{3}{16}$	30 x 5	0.8	1.178
Brick work	120	1922	$1 \frac{1}{4} \times \frac{1}{4}$	30 x 6	1.06	1.413
Cast iron	450	7207	$1 \frac{1}{2} \times \frac{1}{8}$	40 x 3	0.64	0.942
Cement	90	1440	$1 \frac{1}{2} \times \frac{3}{16}$	40 x 5	0.96	1.57
Cement concrete	140	2240	$1 \frac{1}{2} \times \frac{1}{4}$	40 x 6	1.28	1.884
Clay (dry to wet)	115-130	1840-2080	$2 \times \frac{3}{16}$	50 x 5	1.28	1.9625
Coal (loose)	50	800	$2 \times \frac{1}{4}$	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 *	lb/rft	kg/meter
Garjan timber	45-50	720-800	$\frac{1}{2} \times \frac{1}{2}$	12 x 12	0.851	1.13
Gravel	90	1440	$\frac{3}{4} \times \frac{3}{4}$	20 x 20	1.914	3.14
Lead	710	11371	1×1	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 *	lb/rft	kg/meter
Macadam (tar)	140	2242	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	20 x 20 x 20 x 3	0.851	1.272
Marble	169	2707	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{4} \times \frac{3}{16}$	20 x 20 x 5	1.196	1.963
Mild steel	490	7850	$1 \times 1 \times \frac{1}{8}$	25 x 25 x 3	1.17	1.625
Pebbles	90	1440	$1 \times 1 \times \frac{3}{16}$	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 *	lb/rft	kg/meter
Sand (dry to wet)	100-120	1600-1920	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{2}$	20 x 20 x 3	0.585	0.871
Shingles	90	1440	$\frac{3}{4} \times \frac{3}{4} \times \frac{3}{16}$	20 x 20 x 5	0.837	1.374
Silver	656	10506	$\frac{3}{4} \times \frac{3}{4} \times \frac{1}{4}$	20 x 20 x 6	1.063	1.601
Stone ballast	100	1600	$1 \times 1 \times \frac{1}{8}$	25 x 25 x 3	0.798	1.107
Sundari wood	55-65	880-1040	$1 \times 1 \times \frac{3}{16}$	25 x 25 x 5	1.156	1.766
Surki	80	1280	$1 \times 1 \times \frac{1}{4}$	25 x 25 x 6	1.489	2.072
Surki mortar	85-120	1360-1920	$1 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{8}$	40 x 40 x 3	1.223	1.813
Tar	90	1440	$1 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{3}{16}$	40x40x5	1.794	2.944
Teak wood	45-55	720-880	$1 \frac{1}{2} \times 1 \frac{1}{2} \times \frac{1}{4}$	40 x 40 x 6	2.339	3.485
Water at 40 C	62.45	1000	$2 \times 2 \times \frac{3}{16}$	50 x 50 x 5	2.432	3.729
Wrought iron	480	7688	$2 \times 2 \times \frac{1}{4}$	20 x 20 x 6	3.19	4.427
			$2 \frac{1}{2} \times 2 \frac{1}{2} \times \frac{1}{4}$	65 x 65 x 6	4.041	5.84
			$3 \times 3 \times \frac{1}{4}$	75 x 75 x 6	4.891	6.782
			$3 \times 3 \times \frac{5}{16}$	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 lbs.	Size in inch	Weight in lbs.	Size in inch	Weight in lbs.	Size in inch	Weight in lbs.
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 3/16	5	3 1/2 x 3 1/2 x 3/4	8.49
1 1/4 x 1 1/4 x 1/2	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 lbs.	Thickness in inch	Weight in lbs.	Thickness in inch	Weight in lbs.	Thickness in inch	Weight in lbs.
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")

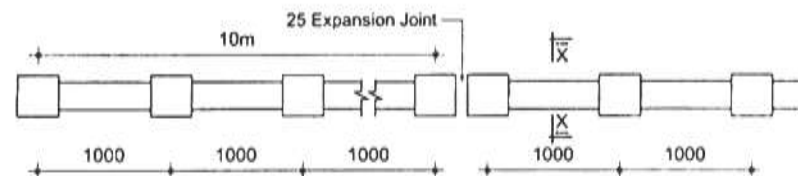
Brick Soling:

- 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')

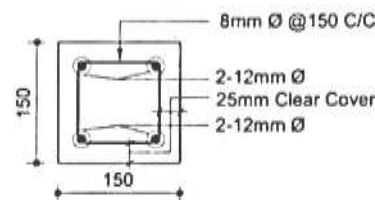
Appendix 6

Drawings

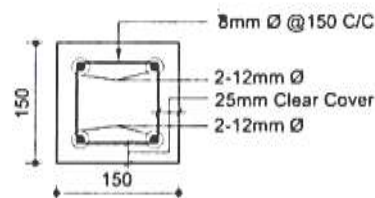
Page 400



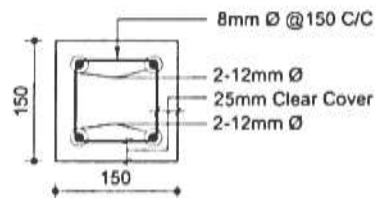
Plan of RCC Post & Wall



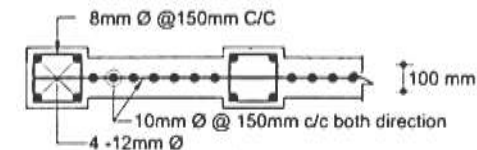
Section B-B (in situ column)



Sec of Post (A-A)



Sec of GB

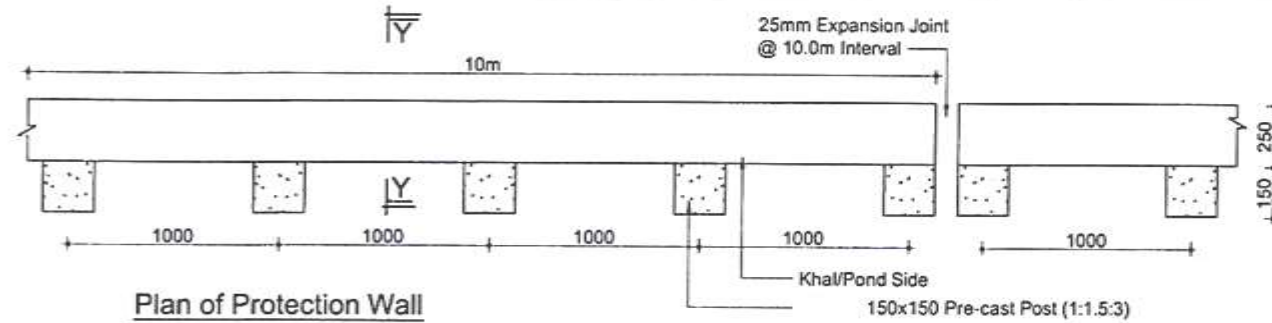


Reinf. Details of Wall & Column

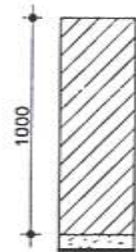
- a) RL of Top of GB should be considered below the river side earth level in order to retain the backfill materials
- b) Expansion Joint at 10m interval
Clear cover :-
Wall :- 25mm
Grade Beam :- 25mm (All Faces)
Post :- 25mm (All Faces)

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF PROTECTION WORK	
DESIGNED BY :	RECOMMENDED BY :
Md. Mostadar Rahman Sr. Bridge Design Engr. LGE HQ Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGE HQ Dhaka
DATE :	DRAWN BY : S. Mozumder

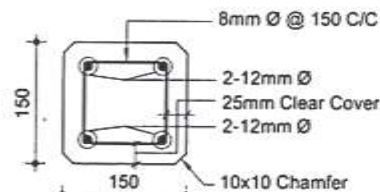
Drawing for Masonry Brick Work and Pre - Cast RCC Post for Protective Works



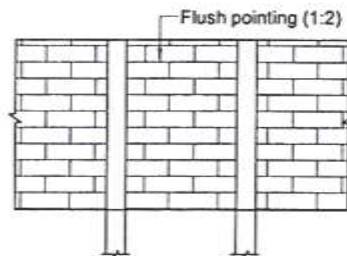
Plan of Protection Wall



BRICK WALL (1:3)



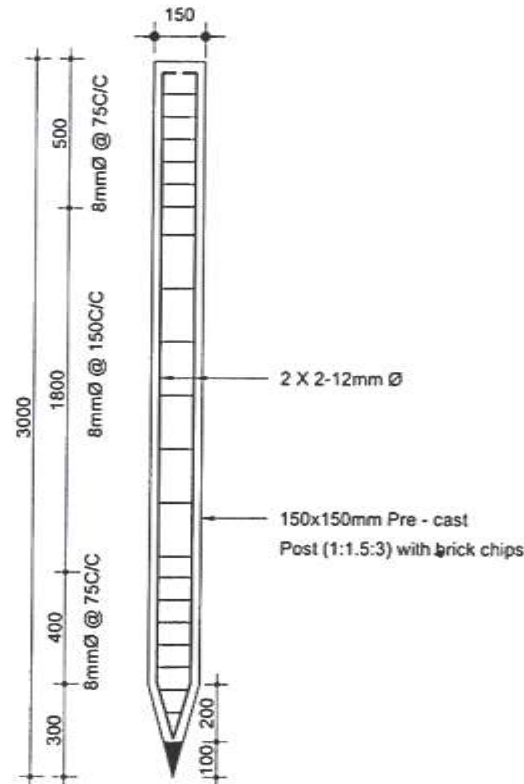
SEC OF X-X



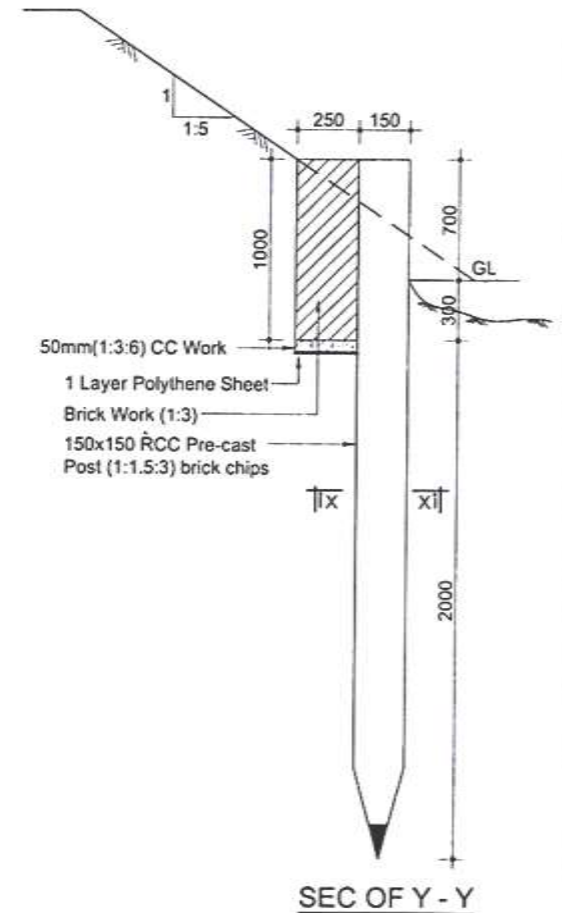
River Side View

NOTES:

1. All Dimensions in Millimeter
2. Clear Cover in Post 25mm
3. MS Deformed Bar (40 grade)
4. Joint Filling in Brick Work (1:2)
5. Expansion joint at 10.0m interval



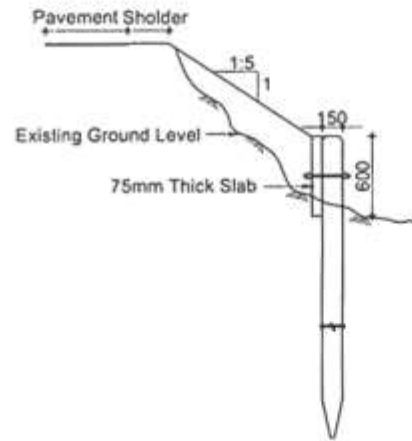
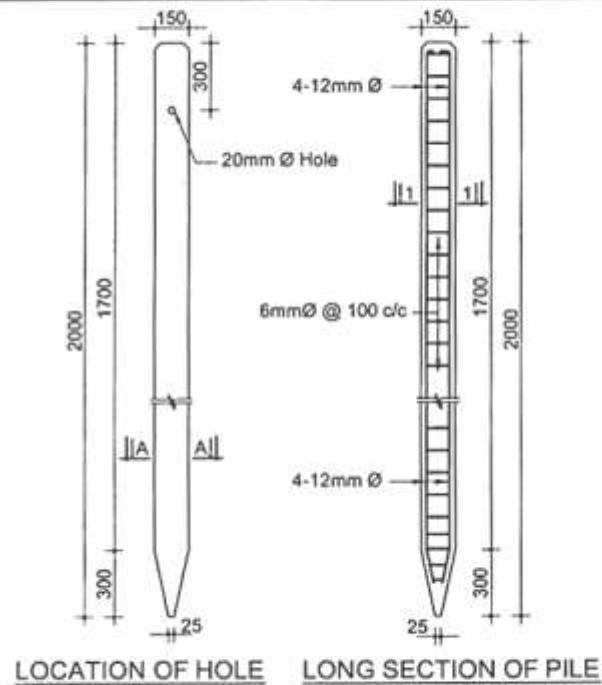
Reinf. Details of
3.00m Long RCC Post



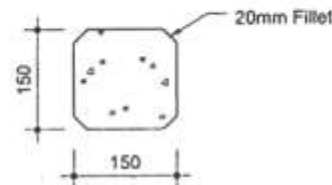
SEC OF Y - Y

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF PROTECTION WORK	
DESIGNED BY :	RECOMMENDED BY
Md. Mostadar Rahman Sr. Bridge Design Engr. LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka
DATE:	DRAWN BY : S. Mozumder

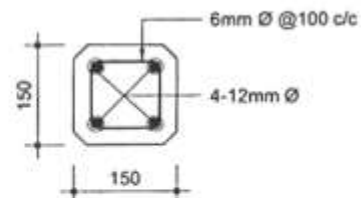
Slope Protection Works by Single Plate Palisading



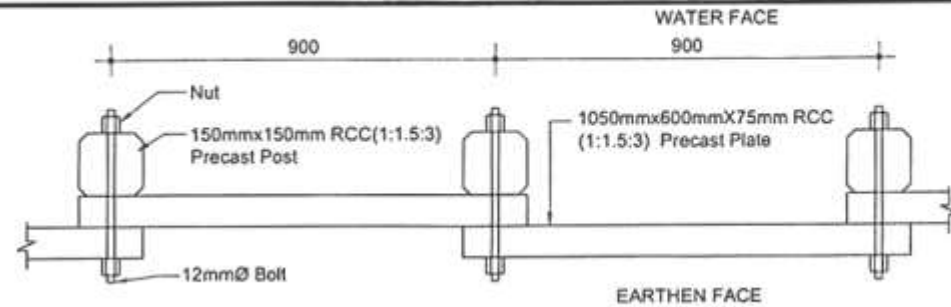
RCC PALISADING



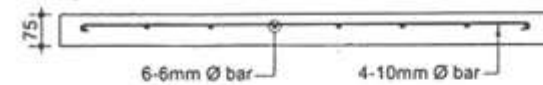
SECTION A-A



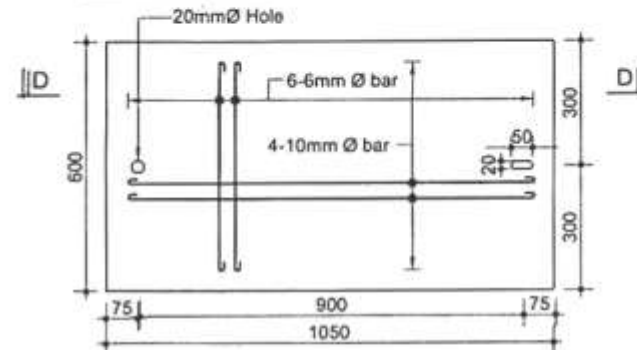
SECTION 1-1



ARRANGEMENT FOR FIXING OF PLATE WITH POST



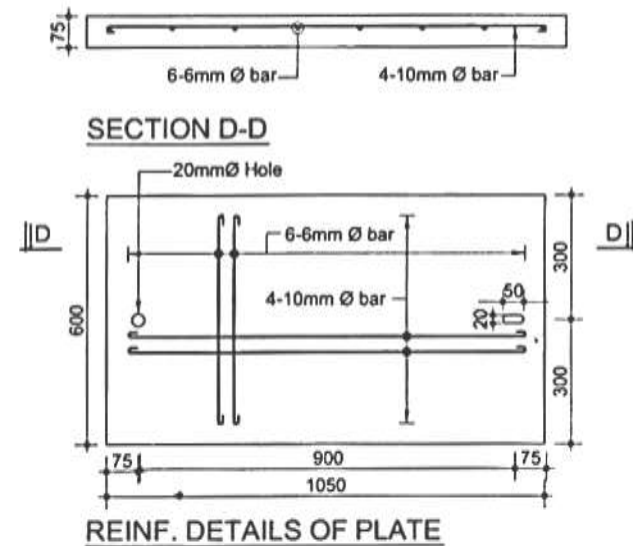
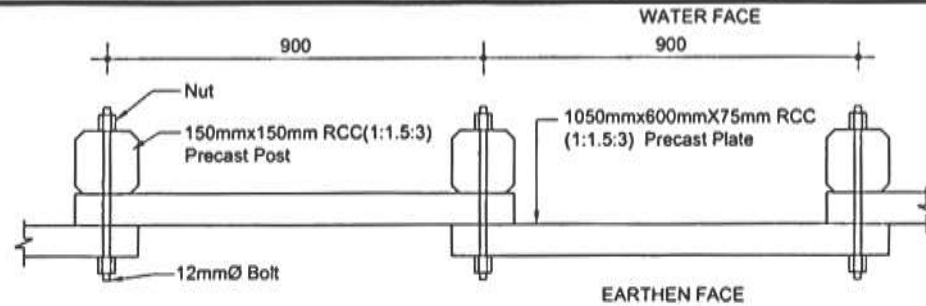
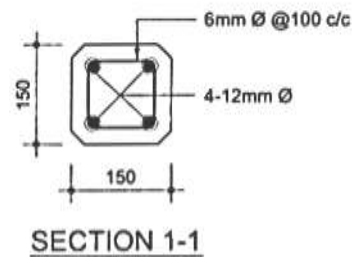
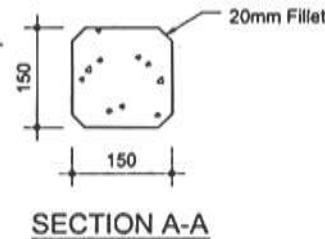
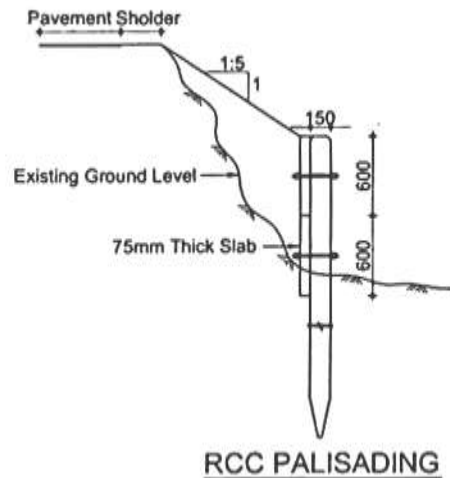
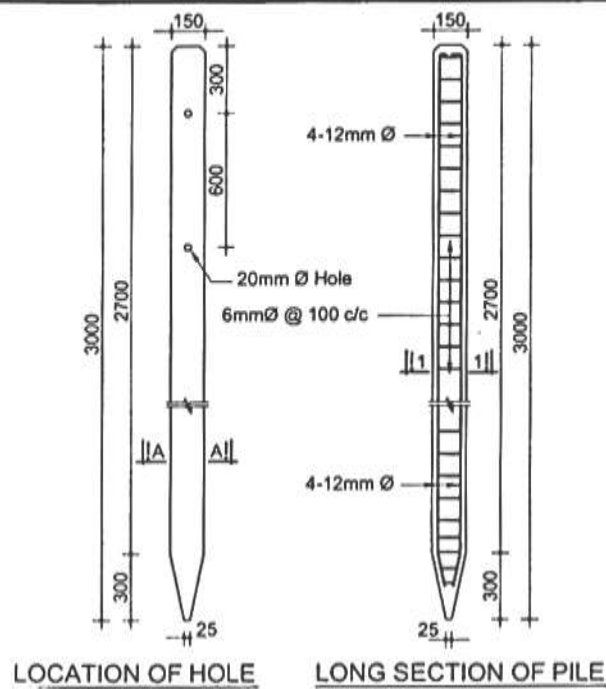
SECTION D-D



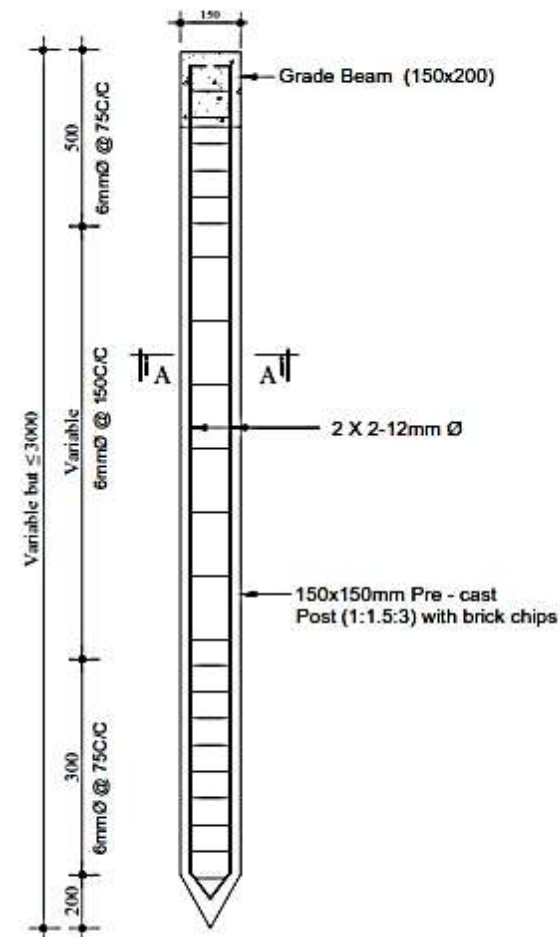
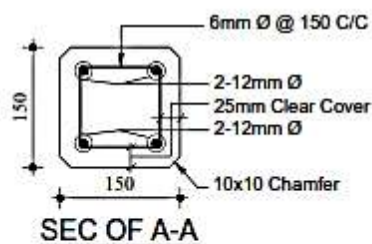
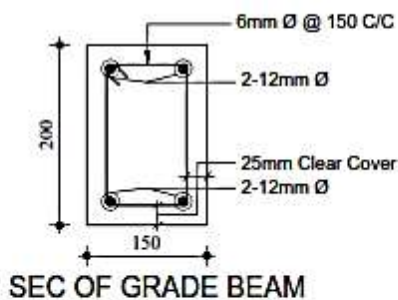
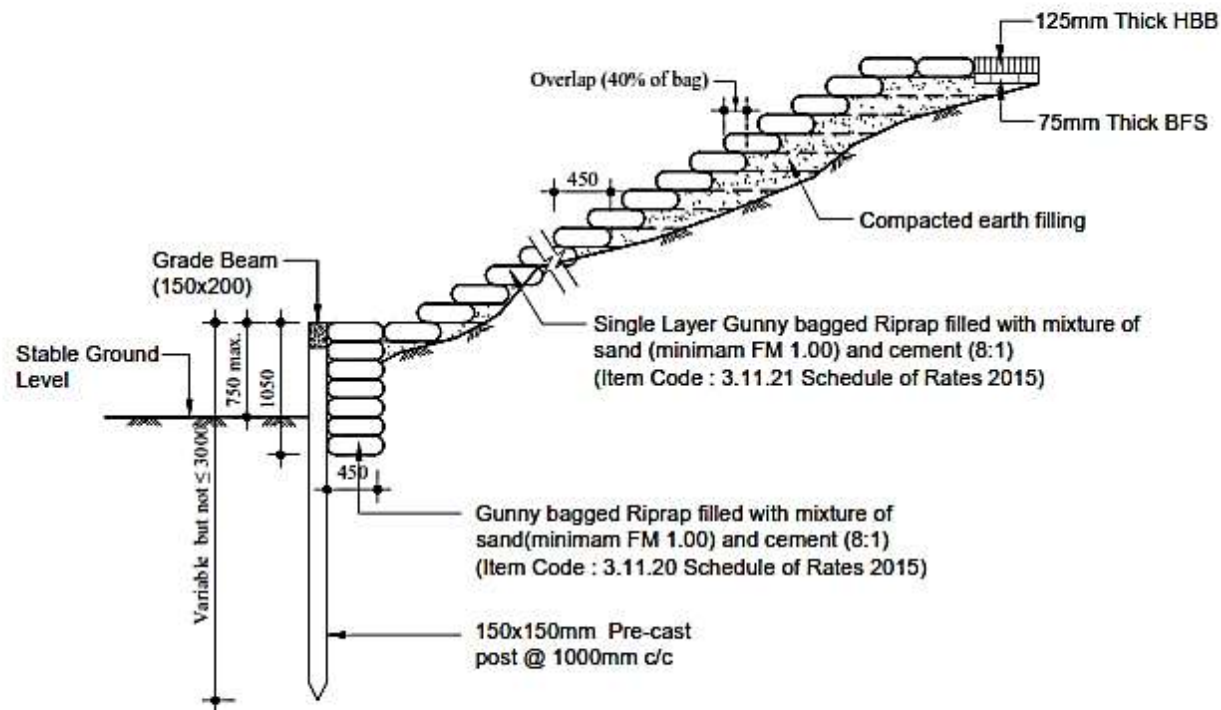
REINF DETAILS OF PLATE

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SLOPE PROTECTION WORK	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostadar Rahman Sr. Bridge Design Engr LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka
DATE:	DRAWN BY: S. Mozunder

Slope Protection Works by Double Plate Palisading

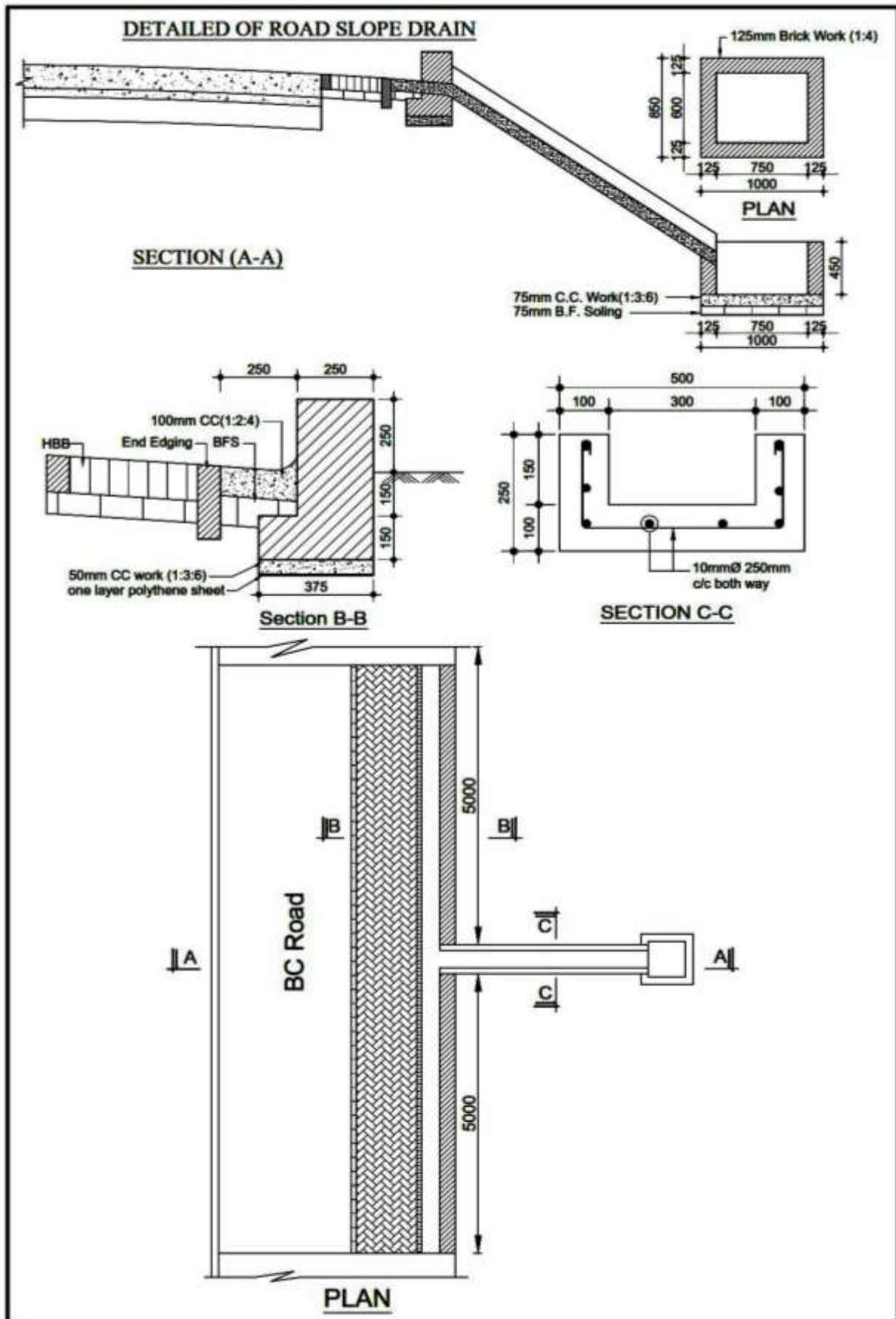


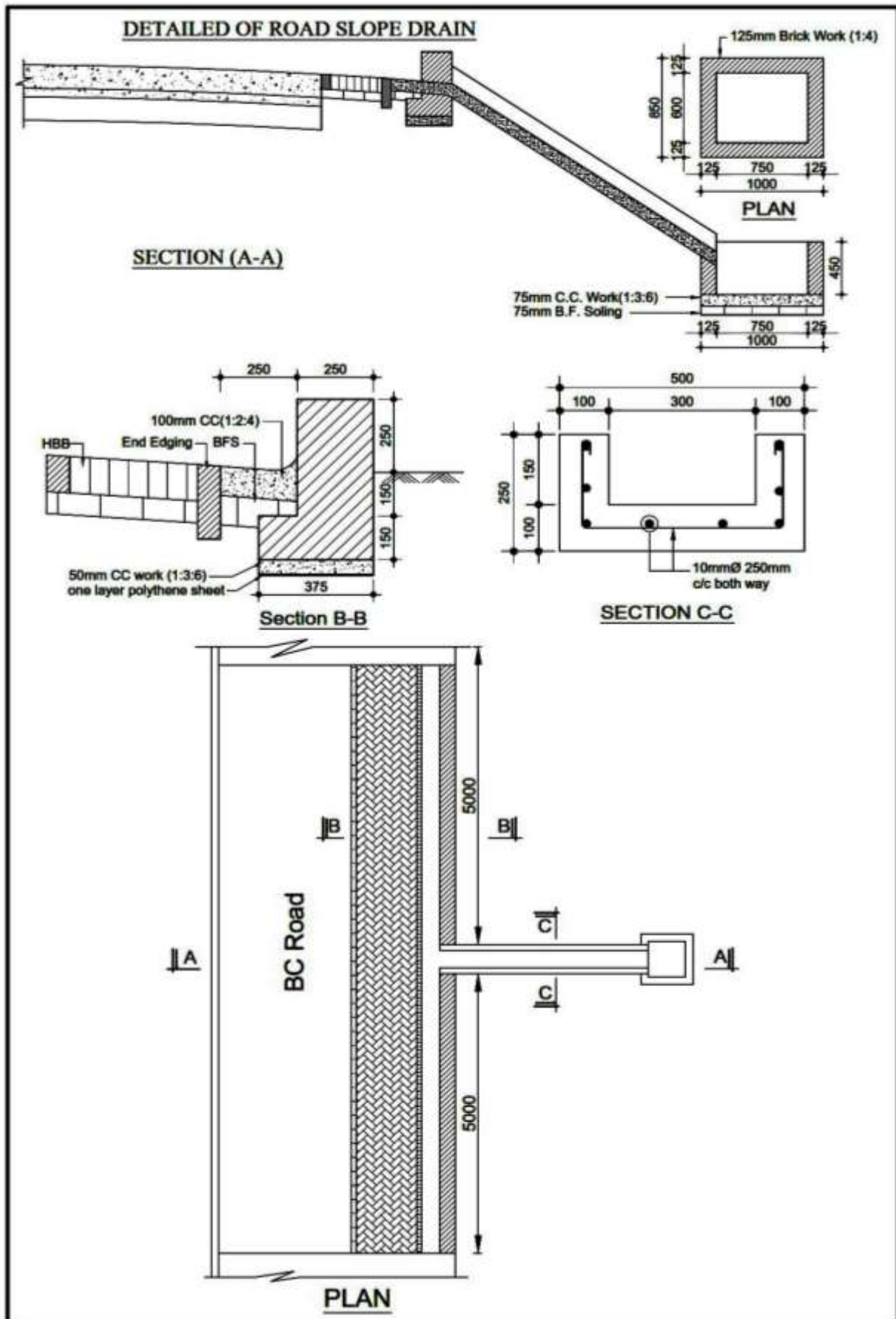
LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SLOPE PROTECTION WORK	
DESIGNED BY :	RECOMMENDED BY :
Md. Mostader Rahman Sr. Bridge Design Engr LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka
DATE:	DRAWN BY : S. Mozumder



Reinf. Details of RCC Post

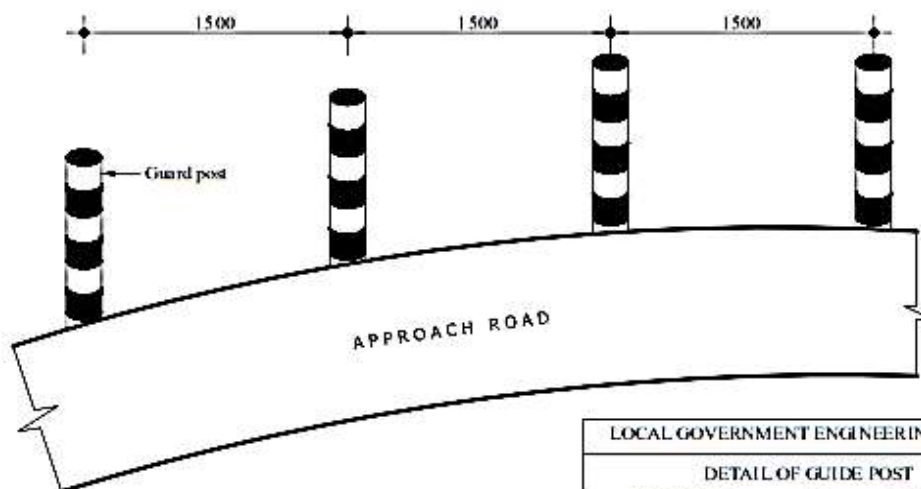
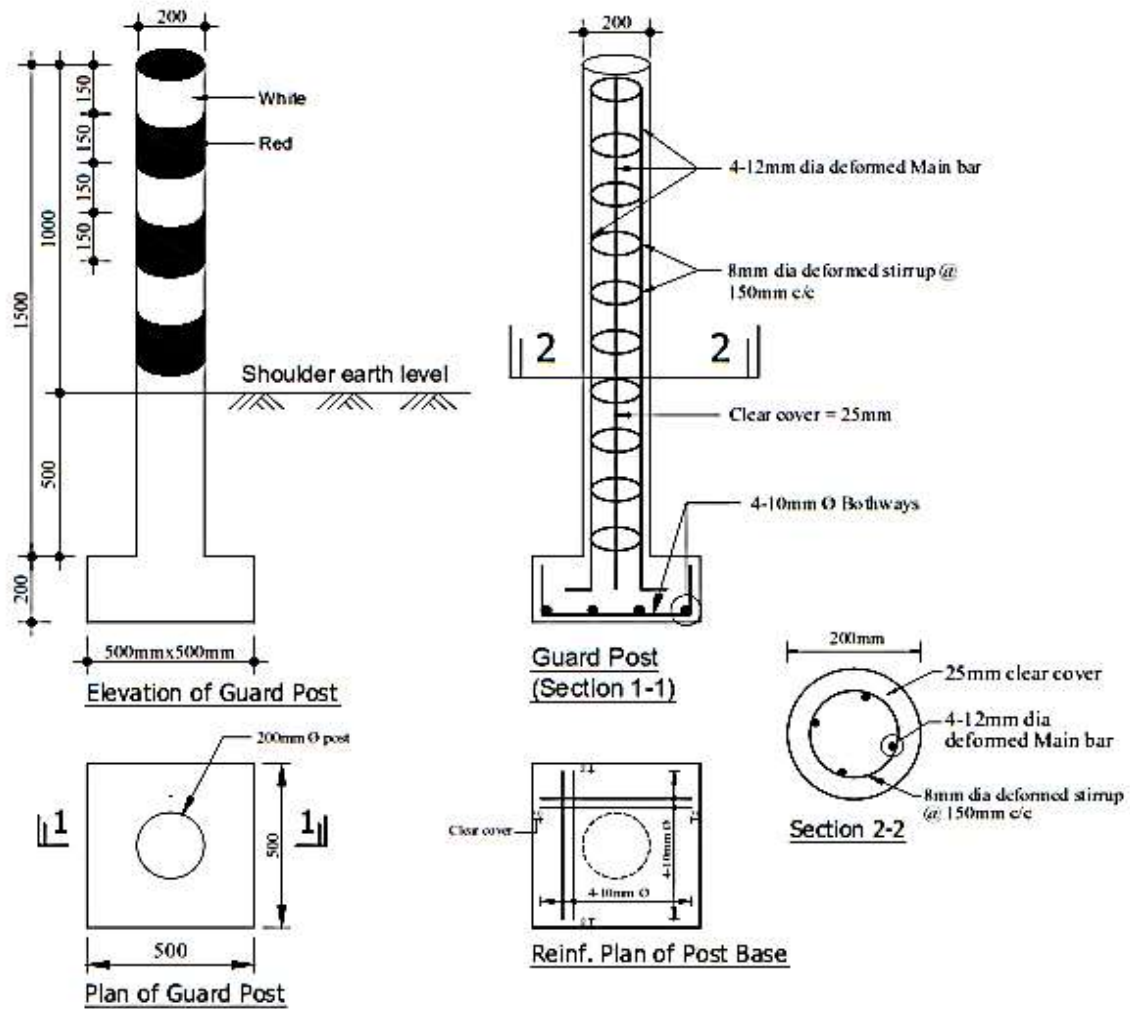
LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SLOPE PROTECTION WORK	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostafar Rahman Sr. Bridge Design Engineer LGED (R), Dhaka	Md. Khalilur Rahman Sr. Designer, LGED
Date:	Drawn By : Md. Jasim Uddin





Guide Post

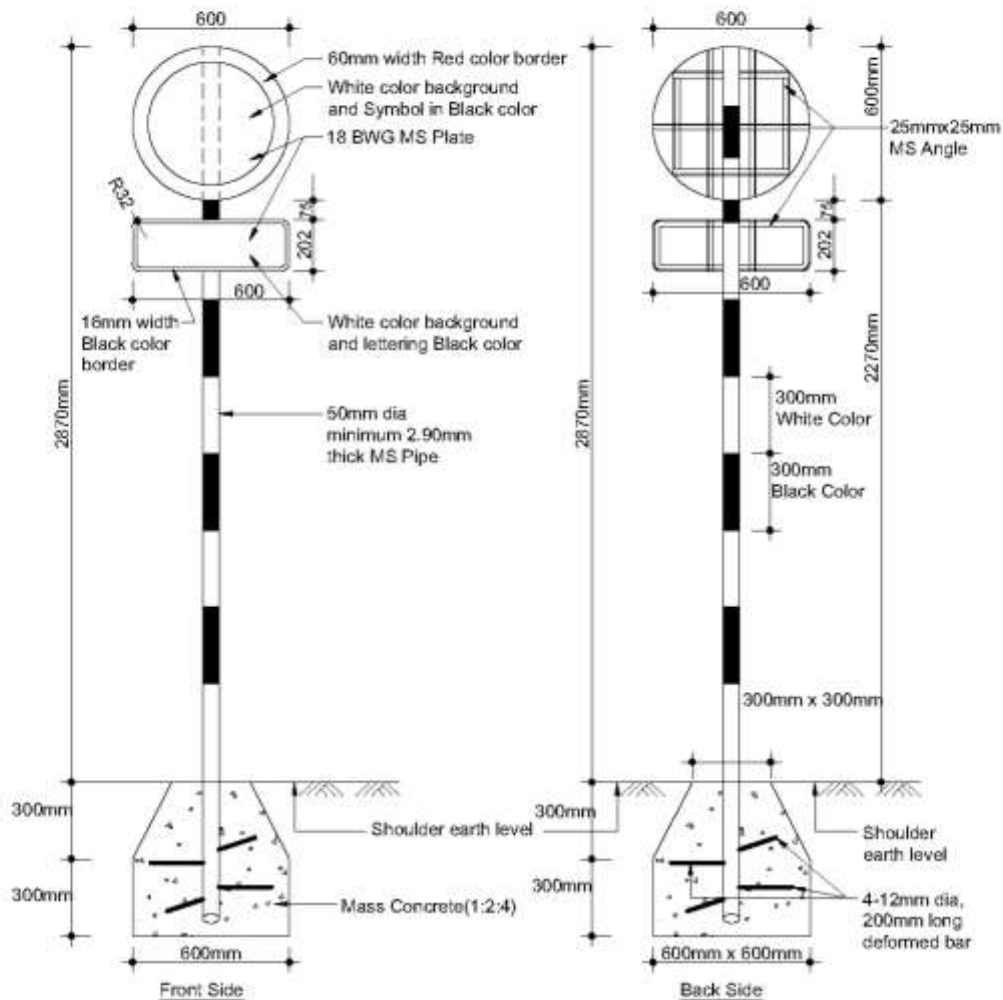
RCC Guide Post of 1.70 meter height with 200mm diameter each to be posted 1.50 meter c/c embedded 0.7m of its length into the compacted shoulder by digging and refilling the hole. The portion of Guide Post above ground level to be painted using White and Red colors by synthetic enamel paint alternatively for 150mm height of each color.



LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF GUIDE POST	
DESIGNED BY	RECOMMENDED BY
Md. Mostafizur Rahman Sr. Urban Engineer (R&D) L.G.E.D.S. Dhaka	Md. Khairul Rahman Sr. Engineer (L.G.E.D.S.)
Date	Drawn By: Md. Jashim Uddin

• For farther details including drawing, you may visit LGED'S web site: www.lged.gov.bd

• Compulsory Traffic Sign:



Section of Traffic Sign (Compulsory)

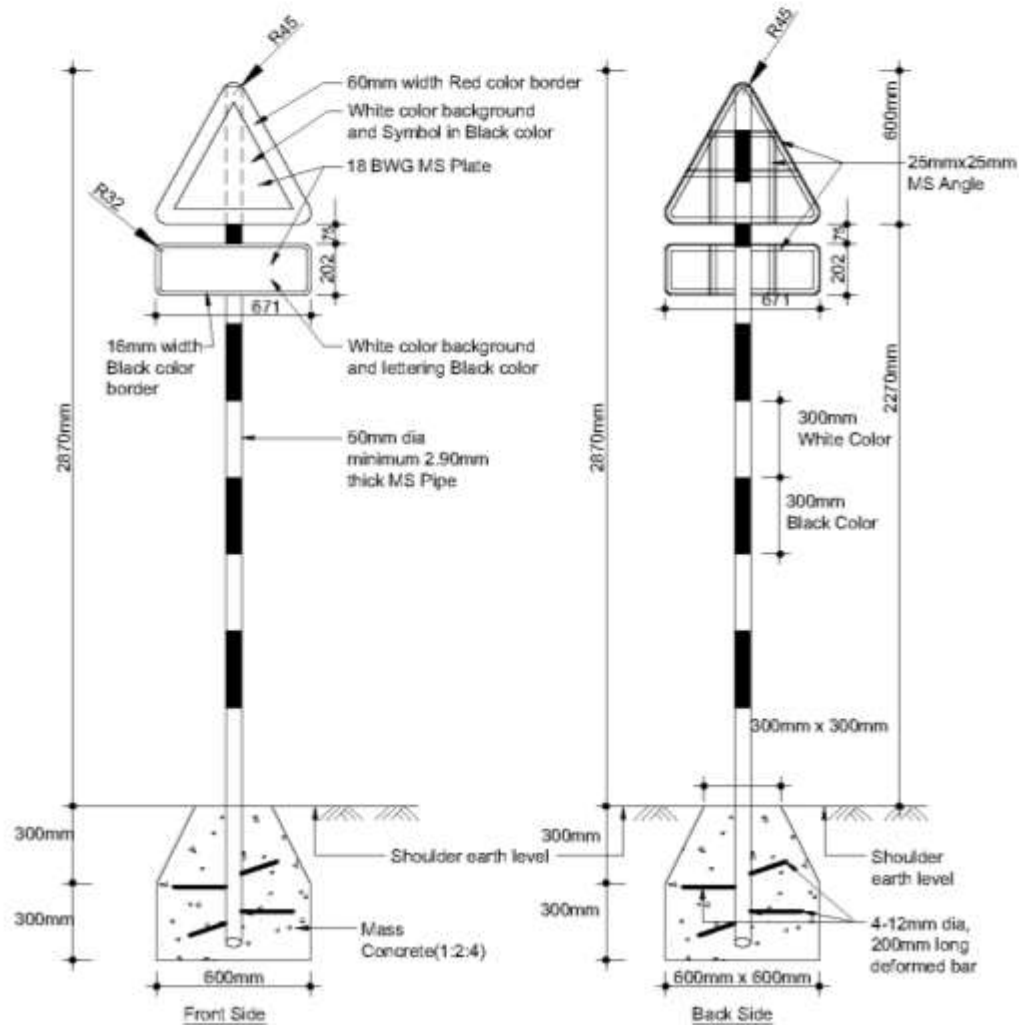
Note:

Retro-Reflective paint / Reflective sheet should be used for signs.

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SECTION OF TRAFFIC SIGN	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostader Rahman Sr. Bridge Design Engr LGED HQ, Dhaka.	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka.
DATE:	DRAWN BY: S. Mostunder

Drawings are available in pdf form at <http://www.lged.gov.bd/OnlinePublication.aspx?UnitID=7>

• Precautionary Traffic Sign:



Section of Traffic Sign (Precautionary)

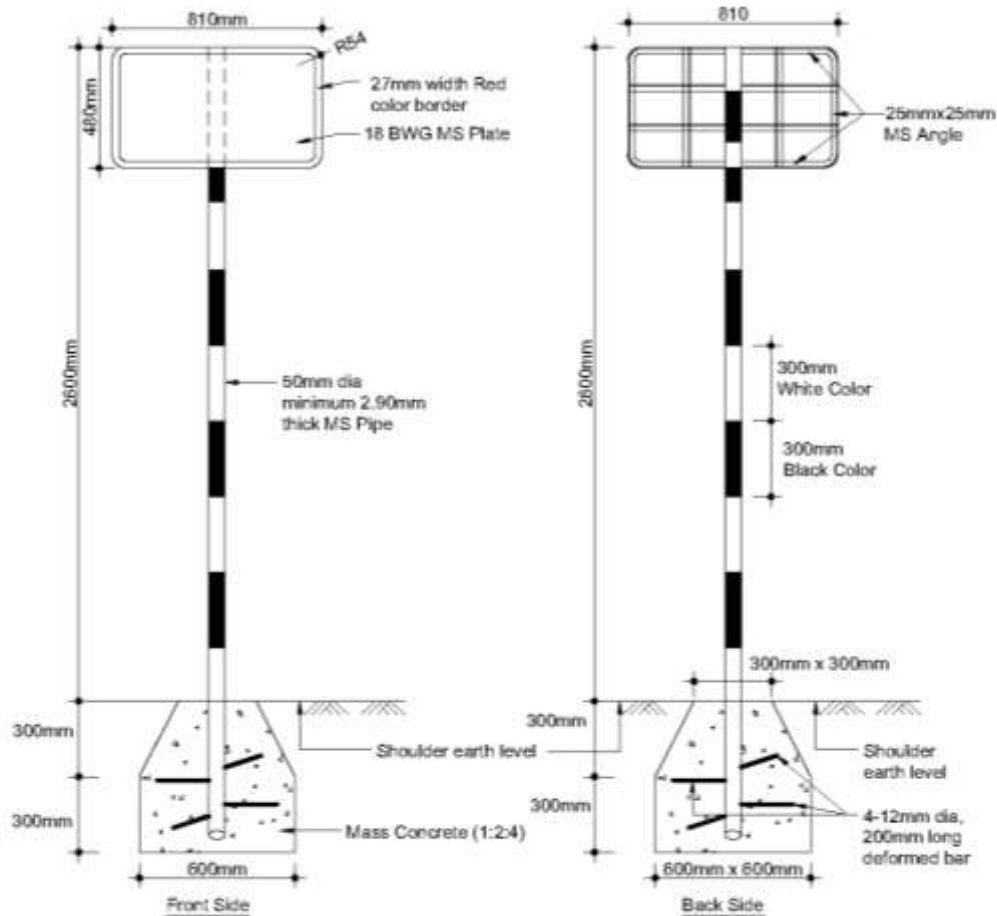
Note:

Retro-Reflective paint / Reflective sheet should be used for signs.

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SECTION OF TRAFFIC SIGN	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostader Rahman Sr. Bridge Design Engr. LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka
DATE:	DRAWN BY: S. Mozumder

Drawings are available in pdf form at <http://www.lged.gov.bd/UnitPublication.aspx/UnitID=7>

• Informative Traffic Sign (Rectangular):



Section of Traffic Sign Informative (Rectangular)

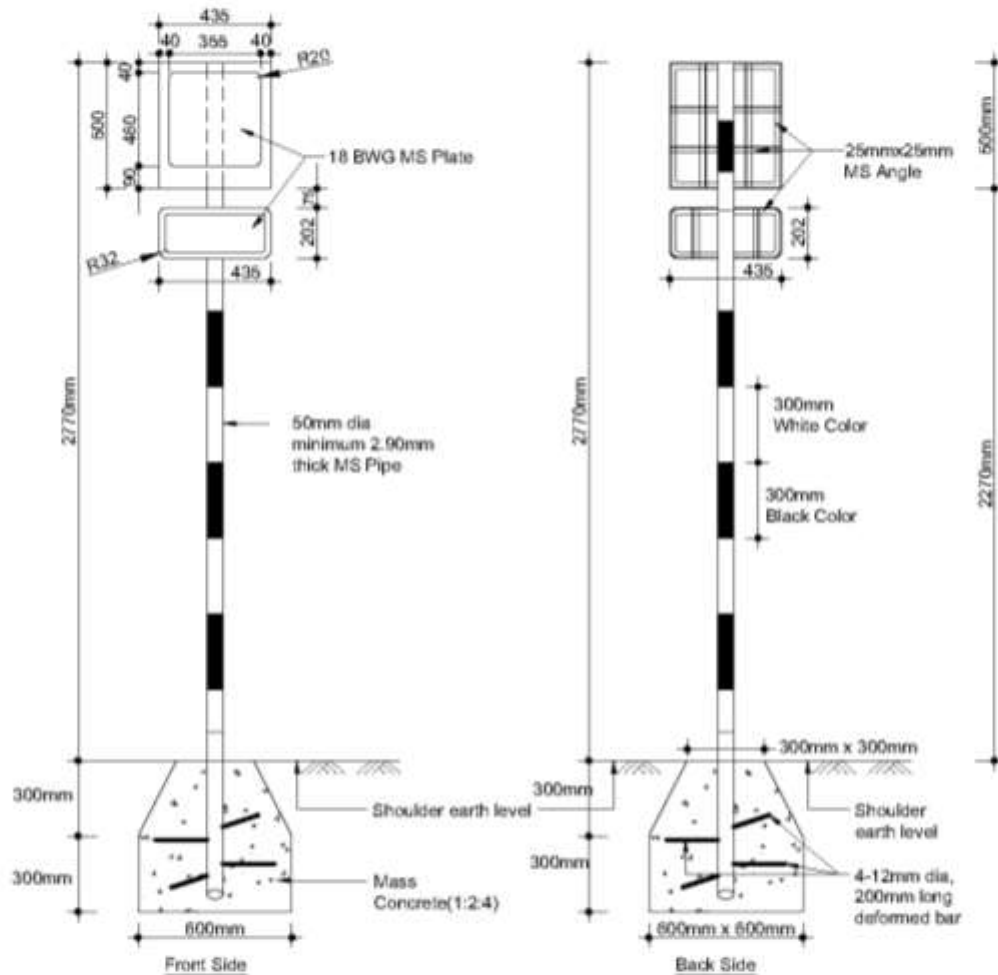
Note:

Retro-Reflective paint / Reflective sheet should be used for signs.

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SECTION OF TRAFFIC SIGN	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostader Rahman Sr. Bridge Design Engr. LGED HQ, Dhaka	Md. Abul Kalam Azad Sr. Design & Quality Control LGED HQ, Dhaka
DATE:	DRAWN BY: S. Mubasher

Drawings are available in pdf form at <http://www.lged.gov.bd/UnitPublication.aspx?UnitID=7>

• Informative Traffic Sign (Square):



Section of Traffic Sign (Square)

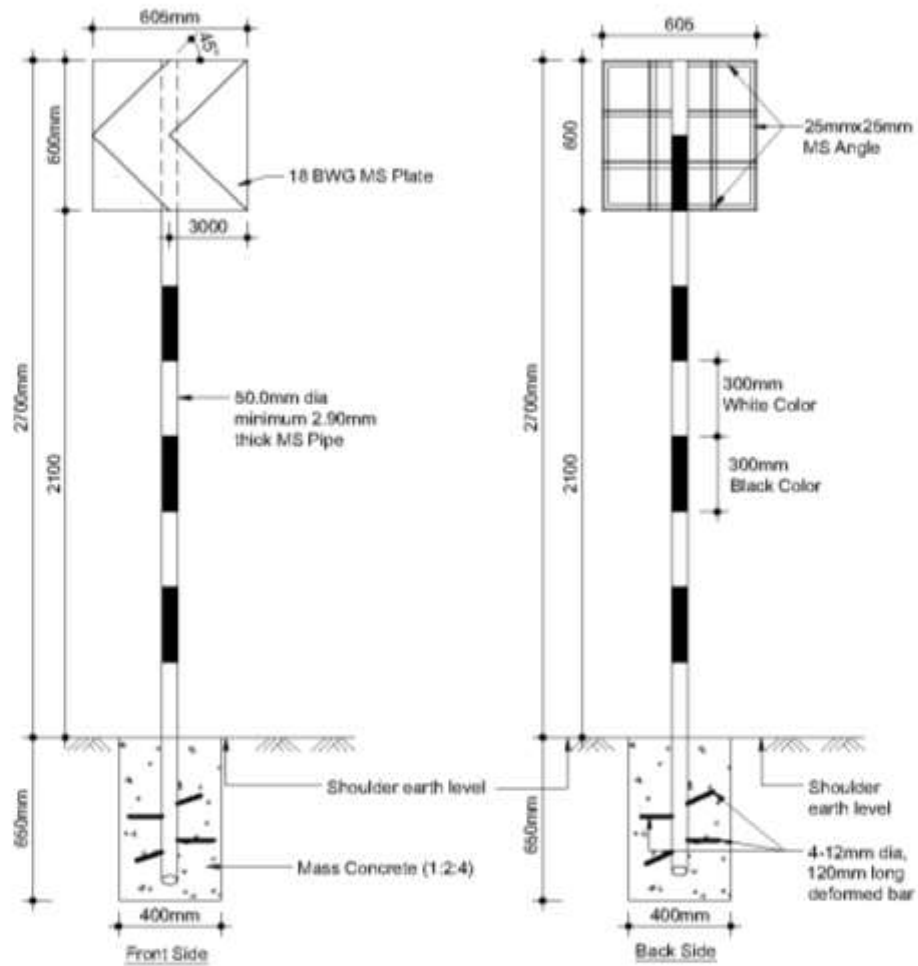
Note:

Retro-Reflective paint / Reflective sheet should be used for signs.

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SECTION OF TRAFFIC SIGN	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostafar Rahman Sr. Bridge Design Engg. LOED H.S. Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LOED H.S. Dhaka
DATE:	DRAWN BY: S. Motunider

Drawings are available in pdf form at <http://www.lged.gov.bd/OnlinePublication.aspx?UnitID=7>

• Chevron Traffic Sign (Square):



Section of Chevron Traffic Sign (Square)

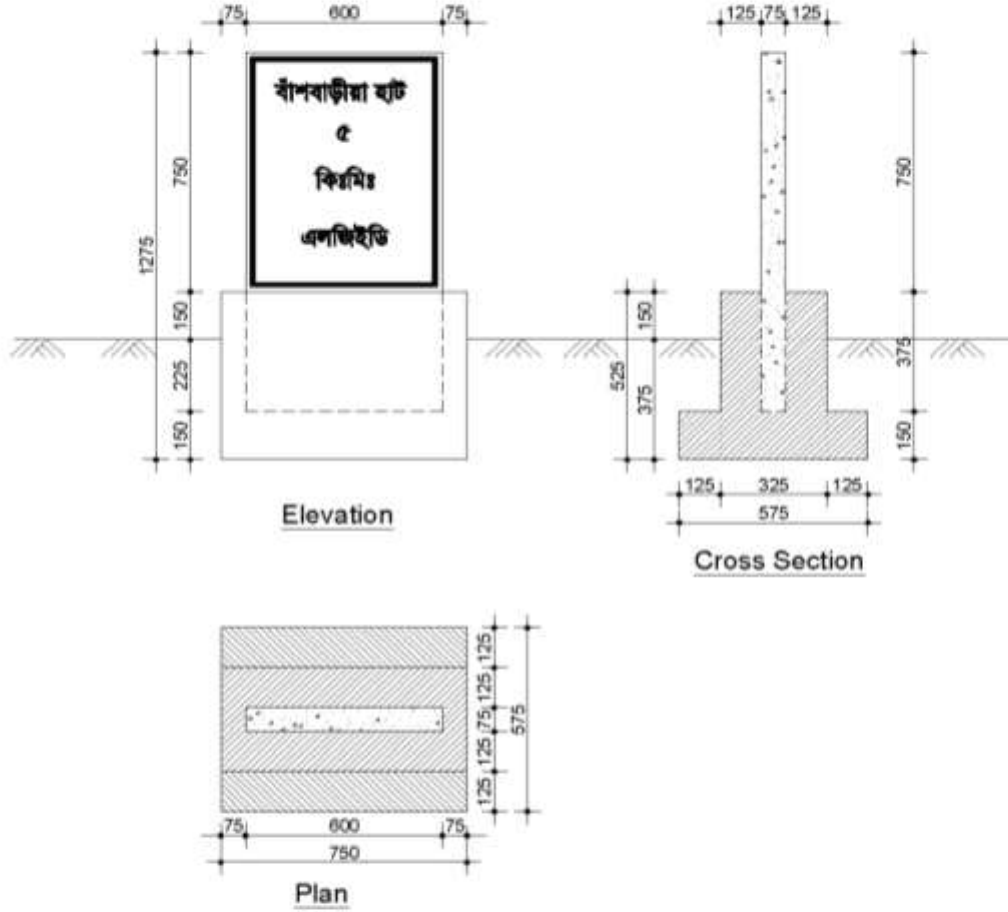
Note:

Reflective sheet should be used for signs.

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF SECTION OF TRAFFIC SIGN	
DESIGNED BY :	RECOMMENDED BY:
Md. Mostafar Rahman Sr. Bridge Design Eng. LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control), LGED HQ, Dhaka
DATE:	DRAWN BY: S. Mostafar

Drawings are available in pdf form at <http://www.lged.gov.bd/OnlinePublication.aspx?OnlineID=7>

কিলোমিটার পোস্টের নমুনা চিত্র



বিশেষ দ্রষ্টব্যঃ পোস্টে হলুদ রংয়ের জমিনের (Background) উপর কালো রংয়ের বর্ডারসহ কালো অক্ষরে তথ্যাদি উভয় পৃষ্ঠে লিখতে হবে। কিলোমিটার পোস্টগুলো Stagger ভাবে সড়কের উভয় পার্শ্বে স্থাপন করতে হবে।

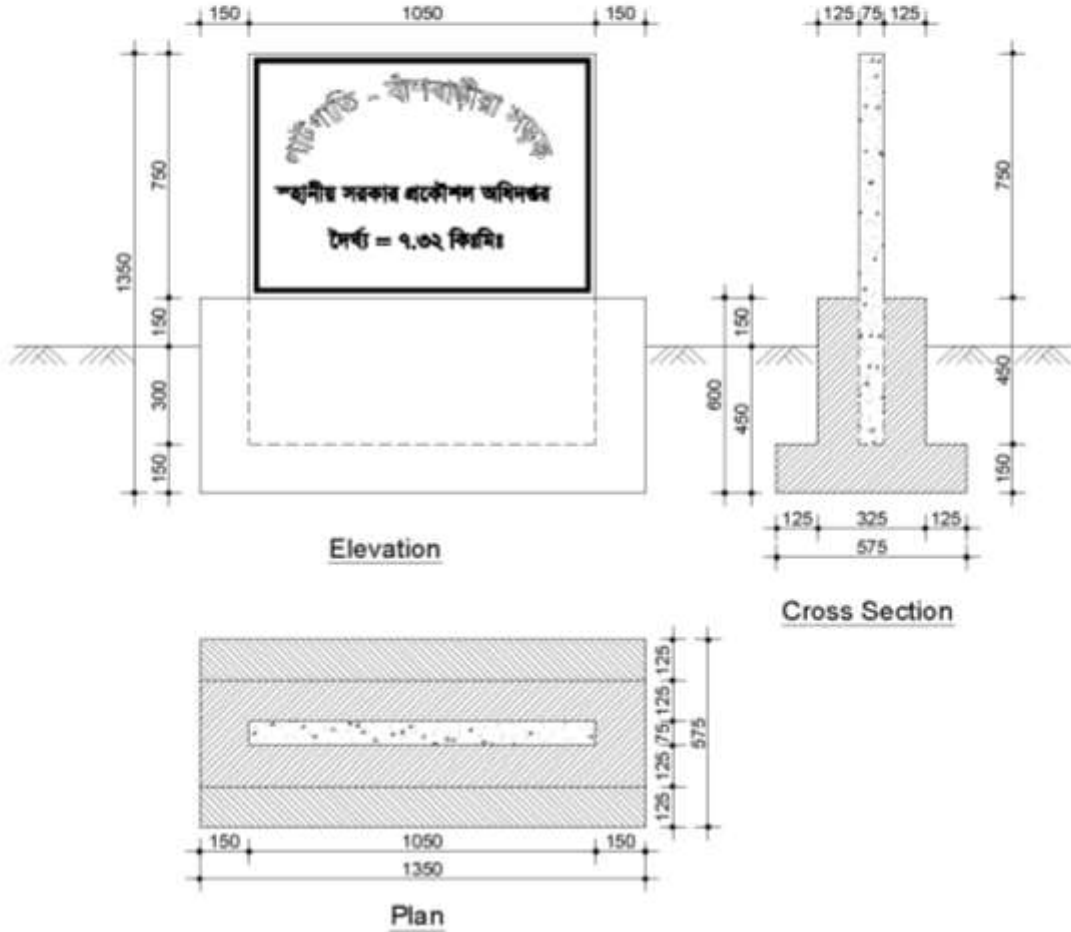
Note:

All Dimension are in Millimeter Unless Otherwise Mentioned

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF KILOMETER POST	
DESIGNED BY	RECOMMENDED BY
Md. Mostadar Rahman Sr. Bridge Design Engr. LGED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LGED HQ, Dhaka
DATE	DRAWN BY: S. Mozumder

Drawings are available in pdf form at <http://www.lged.gov.bd/publication.aspx?URL=7>

নাম ফলকের নমুনা চিত্র



বিশেষ দ্রষ্টব্যঃ ফলকে হলুদ রংয়ের জমিনের (Background) উপর কালো রংয়ের বর্ডারসহ কালো অক্ষরে ডাখ্যাদি লিখতে হবে।

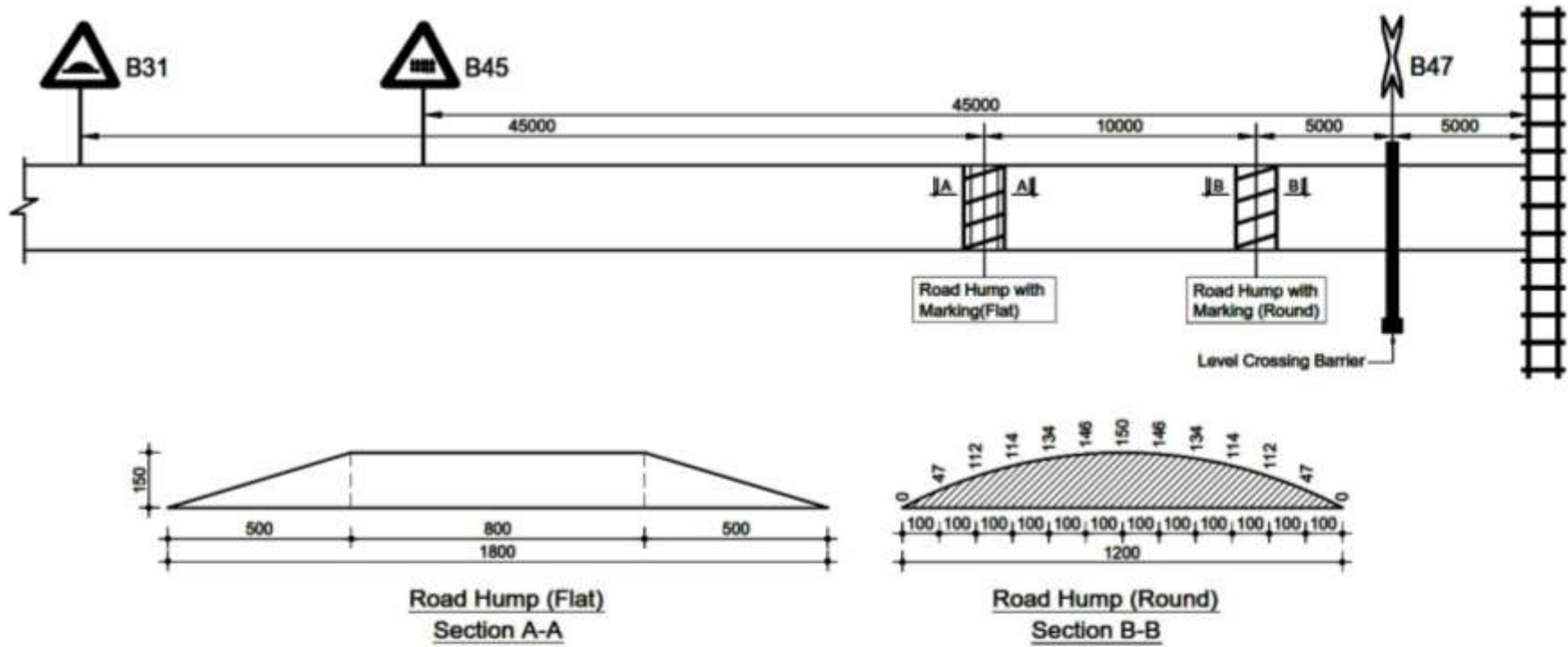
Note:

All Dimension are in Millimeter Unless Otherwise Mentioned

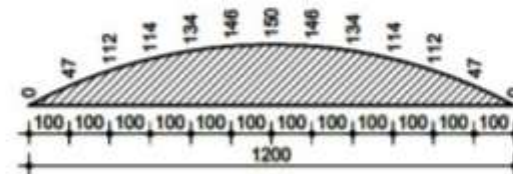
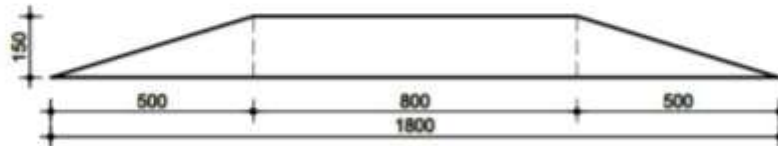
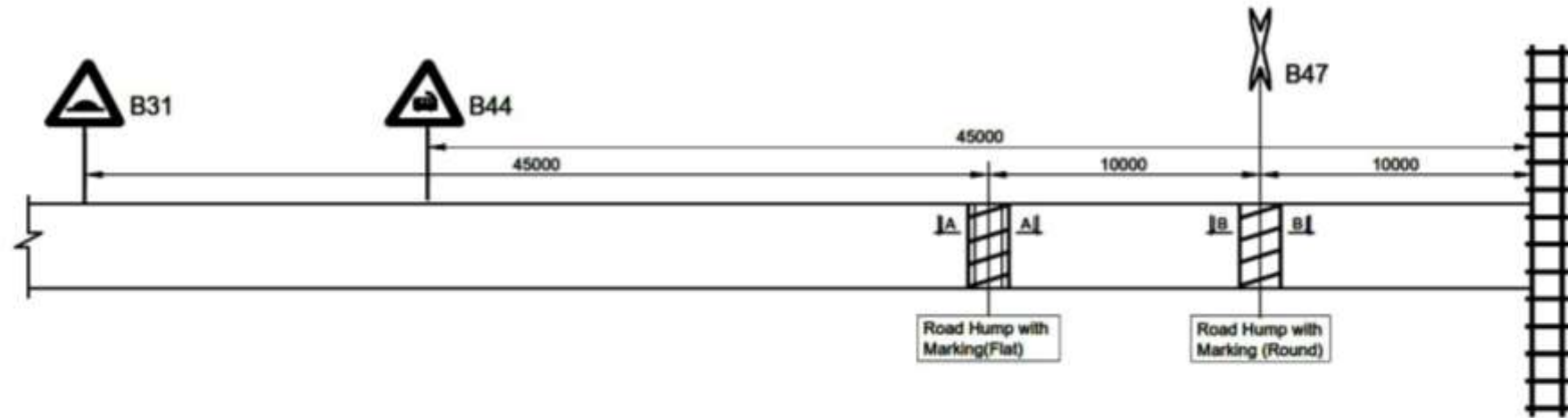
LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
DETAIL OF ROAD NAME PLATE	
DESIGNED BY:	RECOMMENDED BY:
Md. Mostadar Rahman Sr. Bridge Design Engr. LGED HQ, Dhaka	Md. Abul Kalam Azad Sr. Design & Quality Control LGED HQ, Dhaka
DATE:	DRAWN BY: S. Mozumder

Drawings are available in pdf form at <http://www.lged.gov.bd/Upload/Information.aspx?Upload=7>

Typical Layout Plan Showing Physical Safety Works With Barrier at Railway Crossing

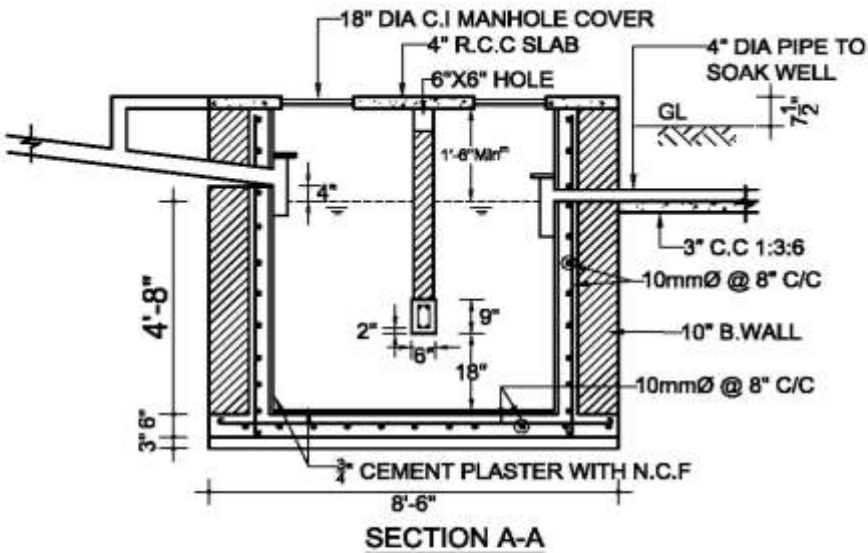
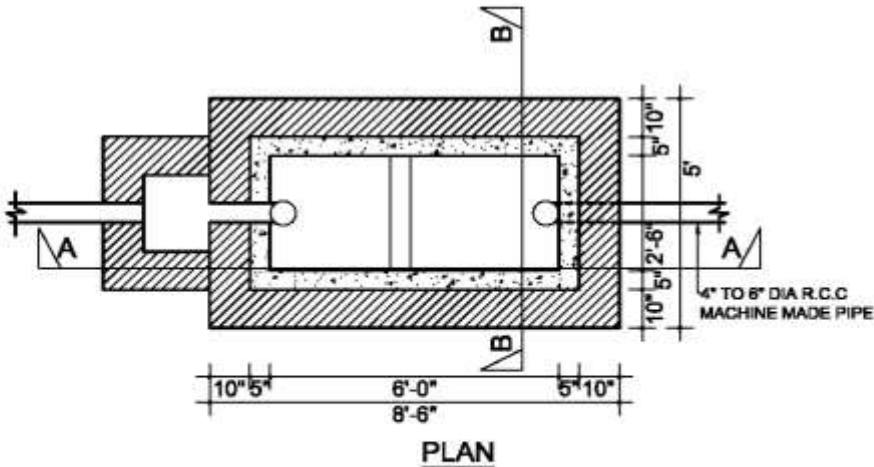


Typical Layout Plan Showing Physical Safety Works
Without Barrier at Railway Crossing



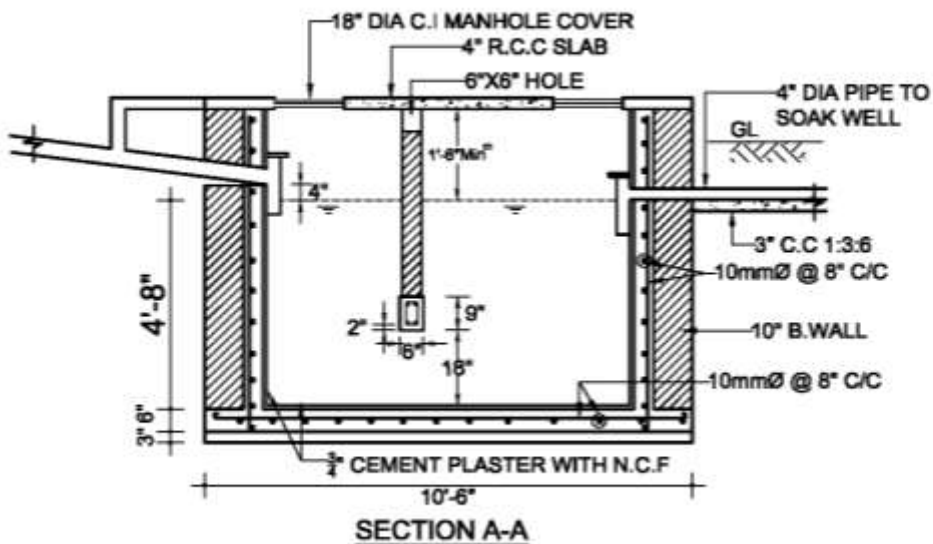
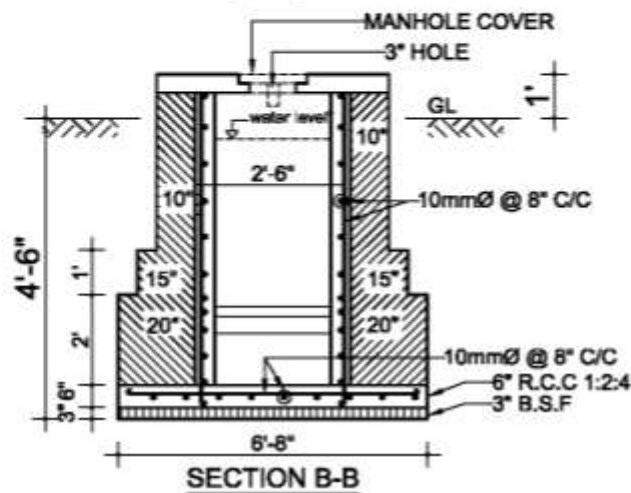
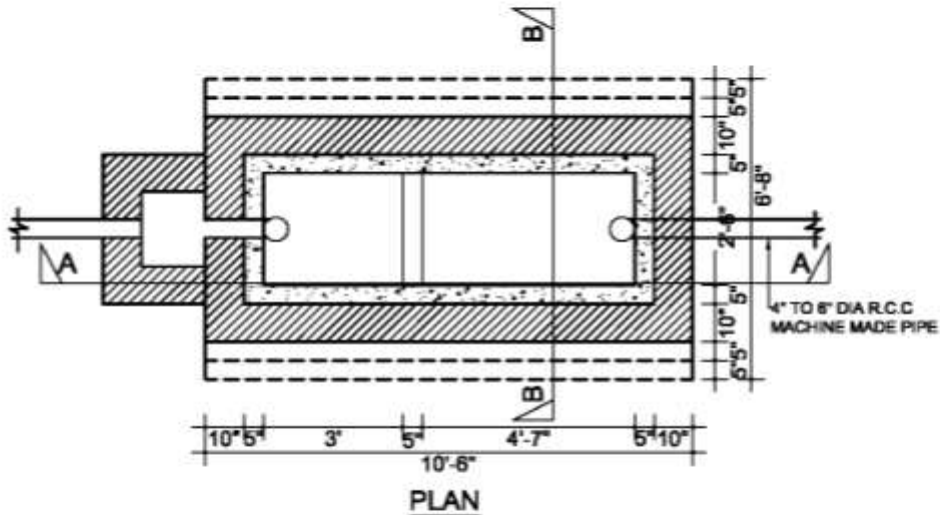
10 USER HOUSE HOLD SEPTIC TANK

NO OF USER (HOUSEHOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
10	6'-0"	2'-6"	3'-1.5"	45CFT



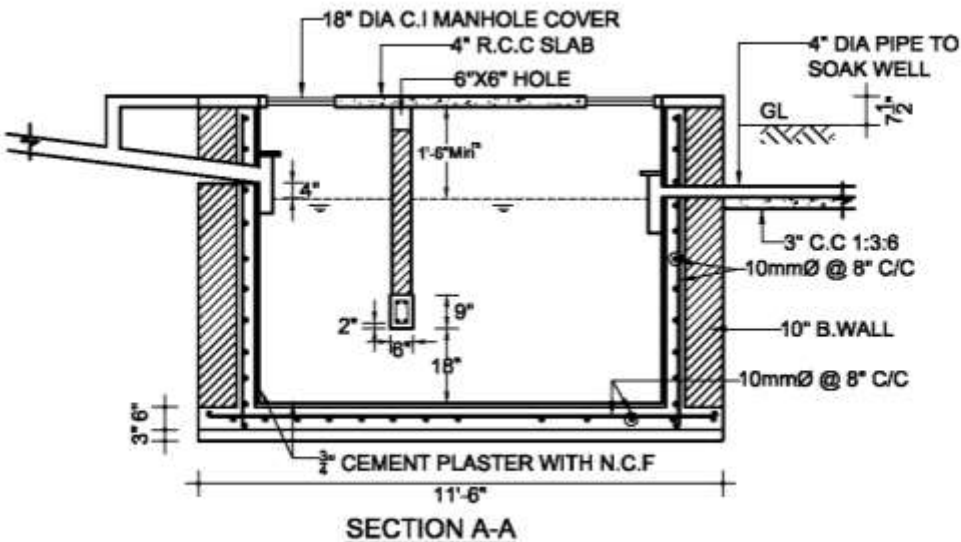
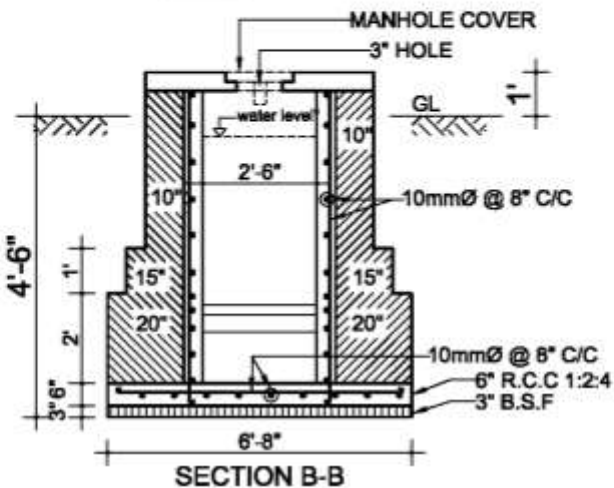
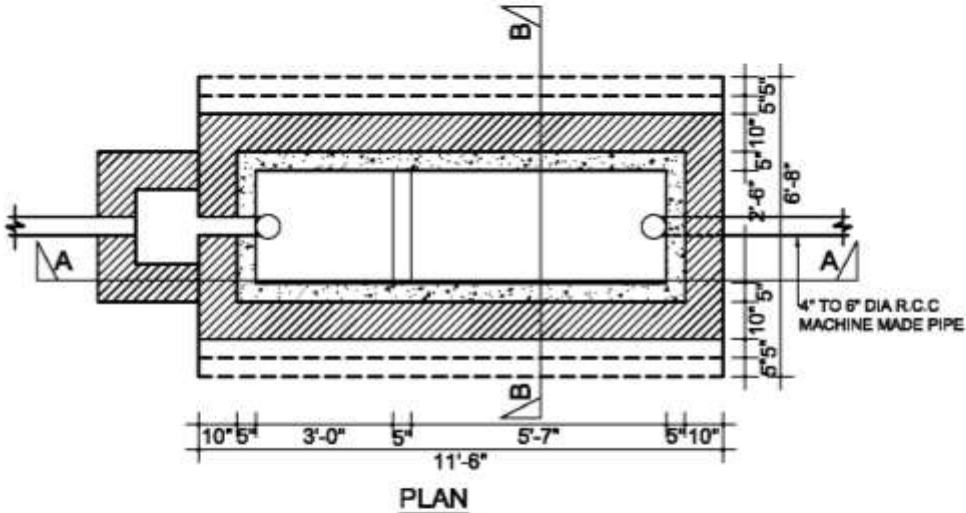
20 USER HOUSE HOLD SEPTIC TANK

NO OF USER (HOUSEHOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
20	8'-0"	2'-6"	4'-6"	90 CFT



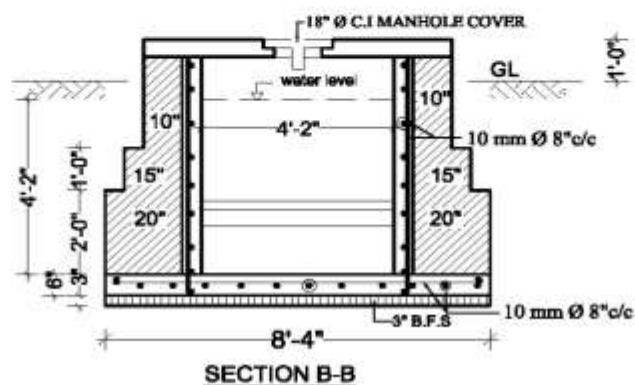
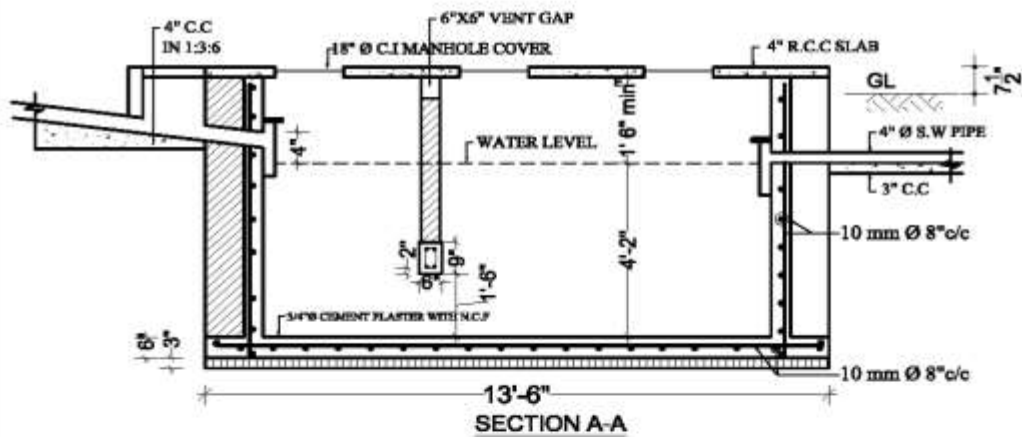
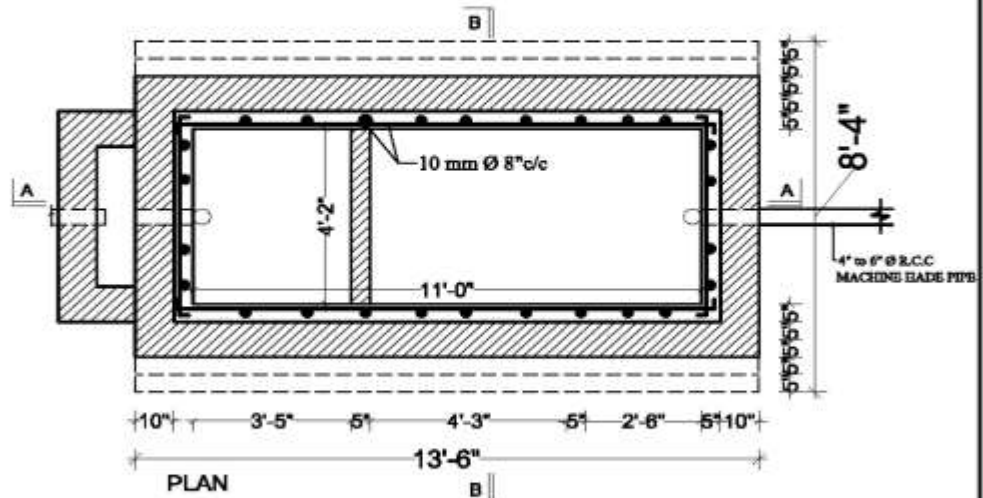
30 USER HOUSE HOLD SEPTIC TANK

NO OF USER (HOUSEHOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
30	9' 0"	2' 6"	4' 6"	135 CFT

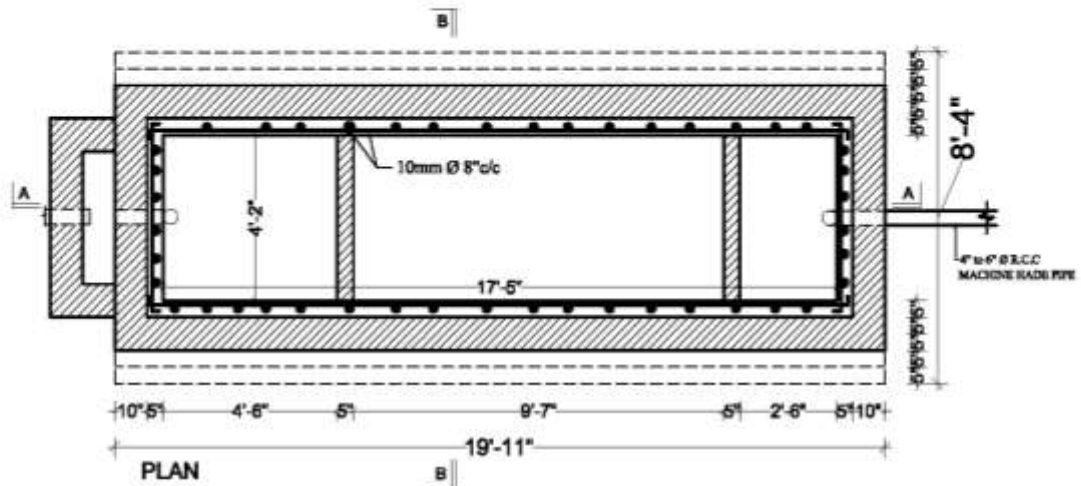


50 USER HOUSE HOLD SEPTIC TANK

NO OF USER (HOUSE HOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
50	11'-0"	4'-2"	4'-2"	225 CFT

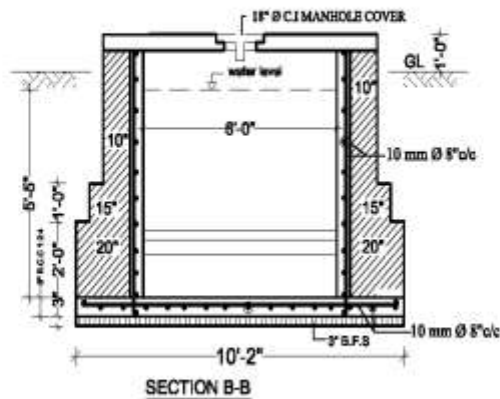
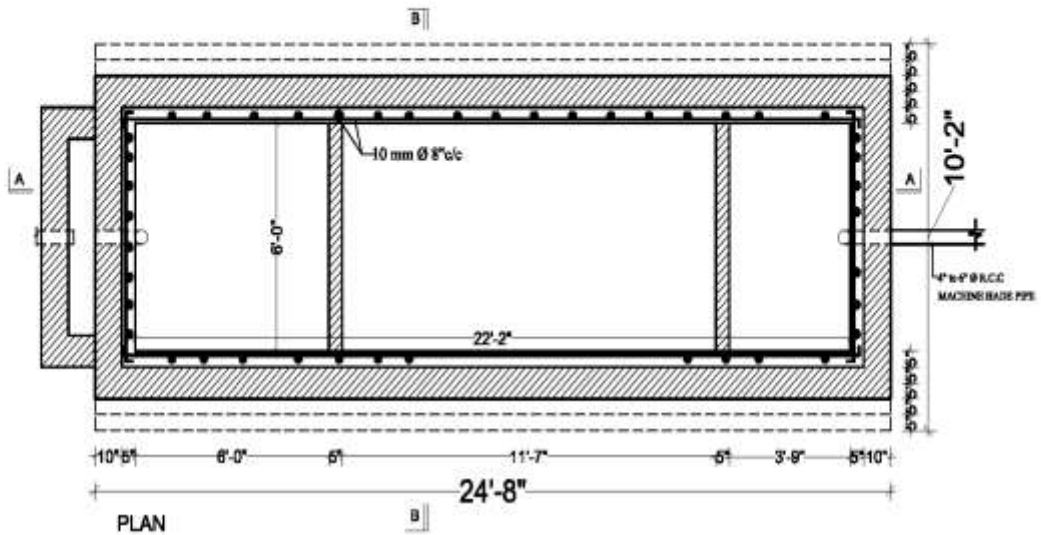
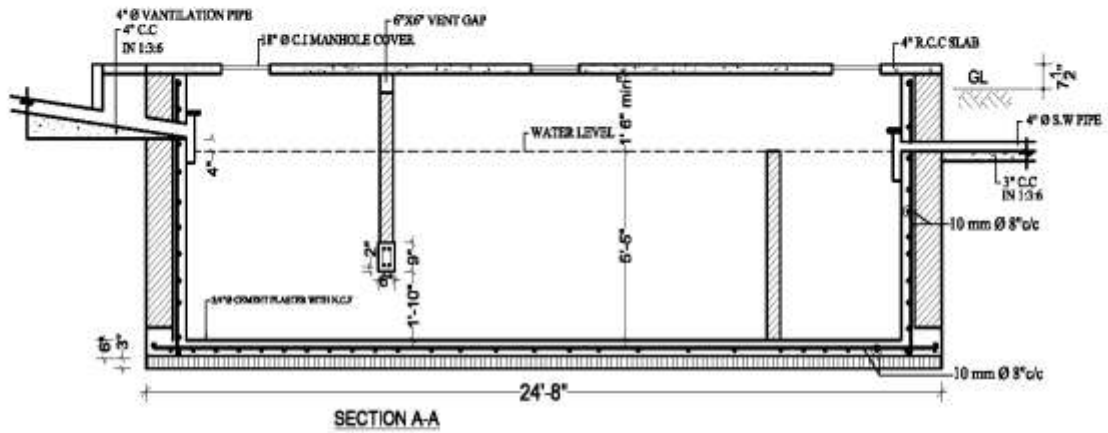


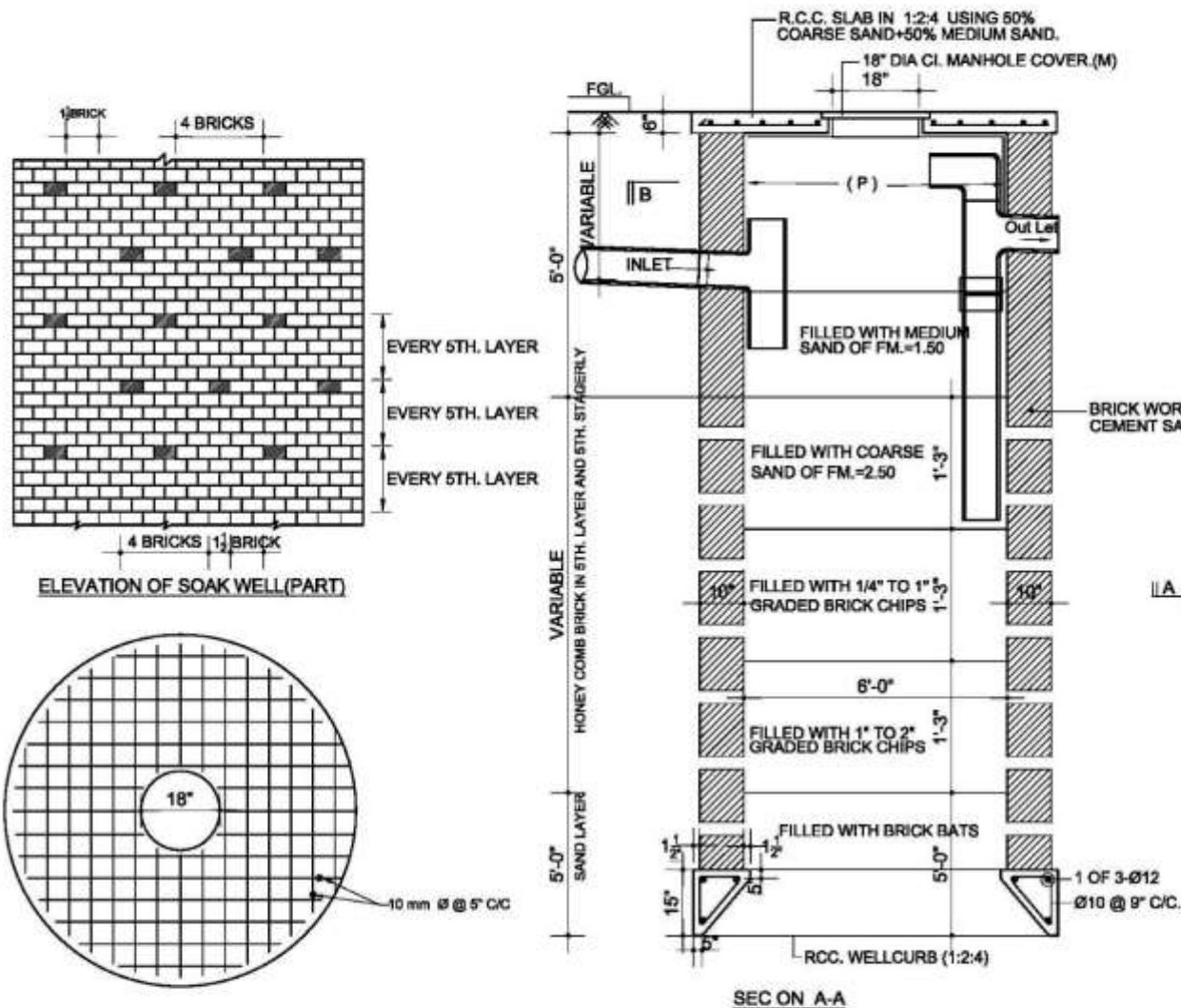
NO OF USER (HOUR HOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
100	17'5"	4'2"	5'5"	450 CFT



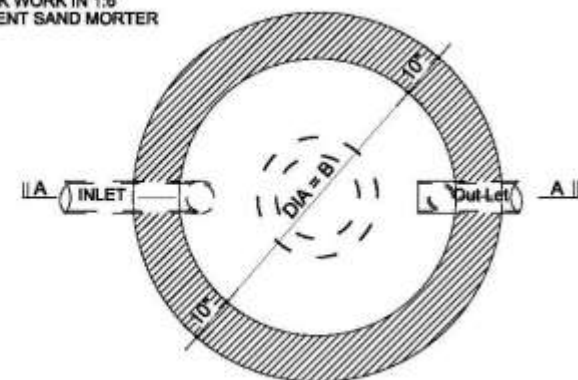
200 USER HOUSE HOLD SEPTIC TANK

NO OF USER (HOUSE HOLD)	L CLEAR	B CLEAR	D-LIQUID DEPTH	CUBICAL CONTENT
200	22'-2"	6'-0"	5'-5"	500 CFT





Users	Internal Dia B
10	3'-0"
20 & 30	3'-6"
50	4'-0"
100	5'-0"
200	6'-0"



LOCAL GOVERNMENT ENGINEERING DEPARTMENT.

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JPL,DESIGN UNIT,LGED.

CHECKED BY

A.B.M. NAZRUL ISLAM
PDS,Design Unit,PEDP, LGED.

APPROVED BY

MD.ABUL KALAM AZAD
Additional Chief Engineer, LGED.

DRAWING TITLE

SOAK WELL

DRAWN BY: MD REZAUL ISLAM

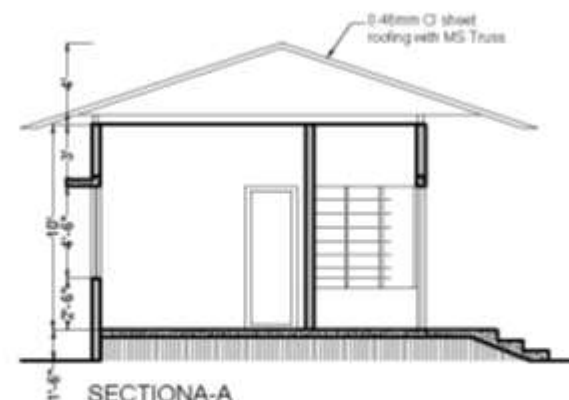
SHEET NO:

DATE: 07.07.2015

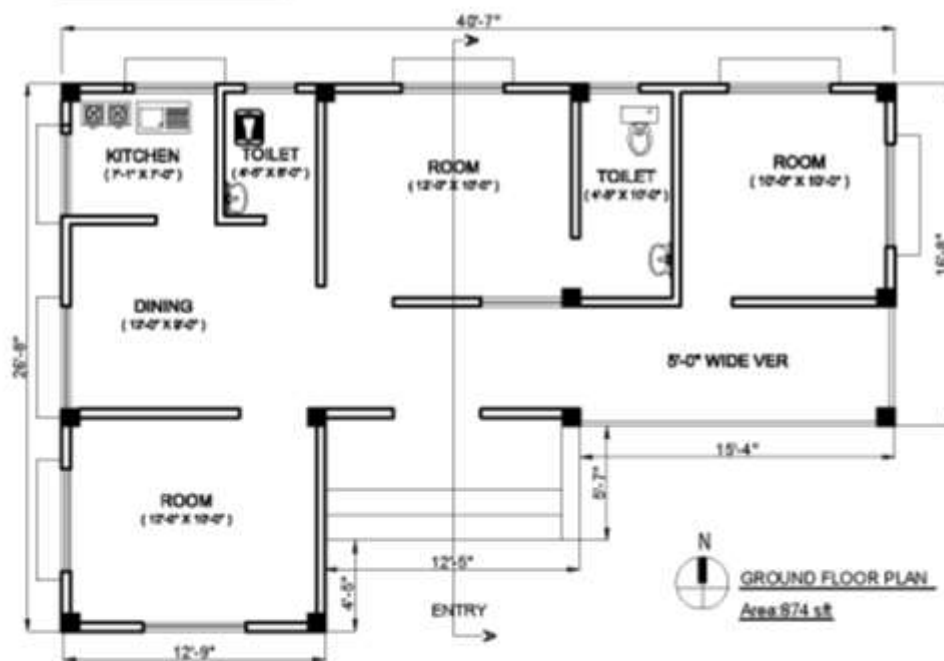
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FRONT ELEVATION



SECTION-A-A



GROUND FLOOR PLAN
Area 874 sq ft

LOCAL GOVERNMENT ENGINEERING DEPARTMENT	
ENGINEER'S SITE OFFICE	
DESIGNED BY	RECOMMENDED BY
Md. Mostadar Rahman Sr. Bridge Design Engr. LOED HQ, Dhaka	Md. Abul Kalam Azad SE (Design & Quality Control) LOED HQ, Dhaka
DATE	DRAWN BY: S. Mostafizur

Appendix 7

List of Abbreviations

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)
EWE _x (C/P/D)	: Earth Work in Excavation (for Canals/Ponds/Drains)
EWE _x (Rd/C/P)	: Earth Work in Excavation (for Roadway/Canals/Ponds)
EWE _x (Dr)	: Earth work in Excavation (Dredged Soil)
EWE _x (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)



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