THE SECURITY PRINTING CORPORATION
(BANGLADESH) LTD.
GAZIPUR - 1703.

Tender Document (National)
For Procurement of Works
[Two Stage Tendering Method]
2nd Stage for Financial Offer

Construction and fabrication of High Security Steel Structure & Reinforced Concrete Vault Building

TENDER NO: 21/2025

27/01/2026

ENGINEERING DEPARTMENT

Tel: +88-02-223375590
e-mail address: info@spcbl.org.bd
Website: www.spcbl.org.bd

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Letter of Invitation

Tender No.: 21/2025
Date: 27 January 2026
Name and Address of the Tenderer:

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Dear Sir/Madam,

1. The Security Printing Corporation (Bangladesh) Ltd. (SPCBL) has allocated its **own funds** towards the cost of the work titled **"Construction and Fabrication of High Security Steel Structure & Reinforced Concrete Vault Building"** and intends to apply a portion of these funds to eligible payments under the Contract for which this **Second Stage Tender Document** has been issued.
2. SPCBL hereby **invites Financial Proposals** from the eligible and technically responsive Tenderers for execution of the above-mentioned works, as more fully described in the **Second Stage Tender Documents**.
3. This **Letter of Invitation** and the **Second Stage Tender Document** have been issued exclusively to the following **Technically Responsive Tenderers** under the Two-Stage Tendering Procedure:

Sl. No.	Name of Technically Responsive Tenderer
1	National Development Engineers (NDE) Steel Structures Limited
2	Confidence Infrastructure PLC – UDC Construction Ltd. (JV)
3	Youth Steel Structure Limited
4	Cosmic Steel Buildings Limited

This invitation **shall not be transferable** to any other firm or entity.

4. A complete set of the Letter of Invitation, Second Stage Tender Documents and all related Drawings shall also be available for download from the SPCBL official website at the following link: https://spcbl.org.bd/pages/tenders.
5. The price of the Tender Document is **BDT 5,000.00 (Five Thousand only),** to be submitted in the form of Pay Order/Demand Draft in favour of Managing Director, SPCBL, Gazipur, along with the Tender.
6. The required Tender Security amount is **BDT 65,00,000.00 (Sixty-Five Lakh only)**, to be submitted in the acceptable form as specified in the Tender Documents, in favour of Managing Director, SPCBL, Gazipur.
7. A Pre-Tender Meeting shall be held on **17 February 2026** at the Board Room of SPCBL, Gazipur, as specified in the Tender Data Sheet.
8. You are kindly requested to inform the undersigned in writing, preferably by electronic mail, upon receipt of this Letter of Invitation and the Second Stage Tender Documents.
9. The deadline for submission of the Tender is **05 March 2026 at 11:00 AM,** as specified in the Tender Data Sheet. Late submissions shall not be accepted.

Yours faithfully,

Md. Mustafizur Rahman
Chief Engineer
The Security Printing Corporation (Bangladesh) Ltd.
Gazipur-1703

Section 1.Instructions to Tenderers

A. General

1. Scope of Tender

(a) The Procuring Entity, as indicated in the Tender Data Sheet (**TDS)** issues this Tender Document for the procurement of Works and physical services incidental thereto as specified in the **TDS** and as detailed in **Section 6: Bill of Quantities**. The name of the Tender and the number and identification of its constituent lot(s) are stated in the **TDS.**

(b) The successful Tenderer shall be required to execute the Works and physical services as specified in the General Conditions of Contract

2. Interpretation

a. Throughout this Tender Document:

(c) the term "in writing" means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;

(d) if the context so requires, singular means plural and vice versa;

(e) "day" means calendar days unless otherwise specified as working days;

(f) "Person" means and includes an individual, body of individuals, sole proprietorship, partnership, company, association or cooperative society that wishes to participate in Procurement proceedings;

(g) "Tenderer" meansa Person who submits a Tender;

(h) "Tender Document" means the Document provided by a Procuring Entity to a Tenderer as a basis for preparation of the Tender; and

(i) "Tender" depending on the context, means a Tender submitted by a Tenderer for execution of Works and physical services to a Procuring Entity in response to an Invitation for Tender.

3. Source of Funds

a. The Procuring Entity has been allocated public funds as indicated in the **TDS** and intends to apply a portion of the funds to eligible payments under the Contract for which this Tender Document is issued.

b. For the purpose of this provision, "public funds" means any monetary resources appropriated to the Procuring Entity under Government budget, or loan, grants and credits placed at the disposal of the Procuring Entity through the Government by the development partners or foreign states or organisations.

c. Payments by the development partner, if so indicated in the **TDS**, will be made only at the request of the Government and upon approval by the development partner or foreign state or Organisation in accordance with the applicable Loan / Credit / Grant Agreement, and will be subject in all respects to the terms and conditions of that Agreement.

4. Corrupt, Fraudulent, Collusive, Coercive (or Obstructive in case of Development Partner) Practices

4.1 The Government and the Development Partner, if applicablerequires that the Procuring Entity as well as the Tenderers and Contracts (including , sub-contractors, agents, personnel, consultants, and service providers)shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.

4.2 For the purposes of ITT Sub Clause 4.3, the terms set forth below as follows:

(a) "corrupt practice" means offering, giving or promising to give, receiving, or soliciting either directly or indirectly, to any officer or employee of the Procuring Entity or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by the Procuring Entity in connection with a Procurement proceeding or Contract execution;

(b) "fraudulent practice" means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution;

(c) "collusive practice" means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Procuring Entity, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying the Procuring Entity the benefits of competitive price arising from genuine and open competition;

(d) "coercive practice" means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.

(e) "Obstructive practice" (applicable in case of Development Partner) means deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.

4.3 Should any corrupt, fraudulent, collusive, coercive (or obstructive in case of Development Partner) practice of any kind is determined by the Procuring Entity or the Development Partner, if applicable, this will be dealt in accordance with the provisions of the Public Procurement Act and Rules and Guidelines of the Development Partners as stated in the ITT sub-clause 3.3.In case of obstructive practice, this will be dealt in accordance with Development Partners Guidelines.

4.4 If corrupt, fraudulent, collusive, coercive (or obstructive in case of Development Partner) practices of any kind is determined by the Procuring Entity against any Tenderer or Contracts (including sub-contractors, agents, personnel, consultants, and service providers) in competing for, or in executing, a contract under public fund:

(a) Procuring Entity and/or the Development Partner shall exclude the concerned Tenderer from further participation in the concerned procurement proceedings;

(b) Procuring Entity and/or the Development Partner shall reject any recommendation for award that had been proposed for that concerned Tenderer;

(c) Procuring Entity and/or the Development Partner shall declare, at its discretion, the concerned Tenderer to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time;

(d) Development Partner shall sanction the concerned Tenderer or individual, at any time, in accordance with prevailing Development Partner' sanctions procedures, including by publicly declaring such Tenderer or individual ineligible, either indefinitely or for a stated period of time: (i) to be awarded a Development Partner-financed contract; and (ii) to be a nominated sub-contractor, consultant, manufacturer or Contractor, or service provider of an otherwise eligible firm being awarded a Development Partner-financed contract; and

(e) Development Partner shall cancel the portion of the loan allocated to a contract if it determines at any time that representatives of the Procuring Entity or of a beneficiary of the loan engaged in corrupt, fraudulent, collusive, coercive or obstructive practices during the procurement or the execution of that Development Partner financed contract, without the Procuring Entity having taken timely and appropriate action satisfactory to the Development Partner to remedy the situation.

4.5 Tenderer shall be aware of the provisions on corruption, fraudulence, collusion, coercion (and obstruction, in case of Development Partner) of the Public Procurement Act, 2006, the Public Procurement Rules, 2008 and others as stated in GCC Clause 38.

4.6 In further pursuance of this policy, Tenderers, Contractors and their sub-contractors, agents, personnel, consultants, service providers shall permit the Government and the Development Partner to inspect any accounts and records and other documents relating to the Tender submission and contract performance, and to have them audited by auditors appointed by the Government and/or the Development Partner during the procurement or the execution of that

Development Partner financed contract.

5. Eligible Tenderers

5.1 This Invitation for Tenders is open to all potential Tenderers from all countries, except for any specified in the **TDS.**

5.2 Tenderers shall have the legal capacity to enter into the Contract under the Applicable law.

5.3 Tenderers shall be enrolled in the relevant professional or trade organisations registered in Bangladesh.

5.4 Tenderers may be a physical or juridical individual or body of individuals, or company, association or any combination of them in the form of a Joint Venture(JV) invited to take part in public procurement or seeking to be so invited or submitting a Tender in response to an Invitation for Tenders.

5.5 Tenderers shall have fulfilled its obligations to pay taxes and social security contributions under the provisions of laws and regulations of the country of its origin.

5.6 Tenderers should not be associated, or have been associated in the past, directly or indirectly, with a consultant or any of its affiliates which have been engaged by the Procuring Entity to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the works to be performed under this Invitation for Tenders.

5.7 Tenderers in its own name or its other names or also in the case of its Persons in different names shall not be under a declaration of ineligibility for corrupt, fraudulent, collusive or coercive practices as stated under ITT Sub Clause 4.4 (or obstructive practice, in case of Development Partner) in relation to the Development Partner's Guidelines in projects financed by Development Partner.

5.8 Tenderers are not restrained or barred from participating in Public Procurement on grounds of poor performance in the past under any Contract.

5.9 Tenderers shall not be insolvent, be in receivership, be bankrupt, be in the process of bankruptcy, be not temporarily barred from undertaking business and it shall not be the subject of legal proceedings for any of the foregoing.

5.10 Government-owned enterprise in Bangladesh may also participate in the Tender if it is legally and financially autonomous, it operates under commercial law, and it is not a dependent agency of the Procuring Entity.

5.11 Tenderers shall provide such evidence of their continued eligibility satisfactory to the Procuring Entity, as the Procuring Entity will reasonably request.

5.12 These above requirements for eligibility will extend, as applicable, to each JV partner and Subcontractor proposed by the Tenderers.

5.13 Tenderers shall have the up-to-date valid license(s), issued by the corresponding competent authority, as specified in the **TDS.**

6. Eligible Materials, Equipment and Associated Services

6.1 All materials, equipment and associated services to be supplied under the Contract are from eligible sources, unless their origin is from a country specified in the **TDS.**

6.2 For the purposes of this Clause, "origin" means the place where the Materials and Equipment are mined, grown, cultivated, produced or manufactured or processed, or through manufacturing, processing, or assembling, another commercially recognized new product results that differs substantially in its basic characteristics from its components or the place from which the associated services are supplied.

6.3 The origin of materials and equipment and associated services is distinct from the nationality of the Tenderer.

7. Site Visit

7.1 Tenderers are advised to visit and examine the Site of Works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the Tender and entering into a contract for construction of the Works. The costs of visiting the Site shall be at Tenderer's own expense.

B. Tender Document

8. Tender Document: General

a. The Sections comprising the Tender Document are listed below, and should be read in conjunction with any Addendum issued under ITT Clause 11.

- Section 1 Instructions to Tenderers (ITT)
- Section 2 Tender Data Sheet (**TDS**)
- Section 3 General Conditions of Contract (GCC)
- Section 4 Particular Conditions of Contract (**PCC**)
- Section 5 Tender and Contract Forms
- Section 6 Bill of Quantities (**BOQ**)
- Section 7 General Specifications
- Section 8 Particular Specifications
- Section 9 Drawings

b. The Procuring Entity is not responsible for the completeness of the Tender Document and their addenda, if these were not purchased directly from the Procuring Entity, or through its agent as specified in the **TDS.**

c. Tenderers are expected to examine all instructions, forms, terms, and specifications in the Tender Document as well as in addendum to Tender, if any.

9. Clarification of Tender

a. A prospective Tenderer requiring any clarification of the Tender Document shall contact the Procuring Entity in

Document

writing at the Procuring Entity's address and within time as specified in the **TDS.**

b. The Procuring Entity is not obliged to answer any clarification request received after that date as stated under ITT Sub Clause 9.1.

c. The Procuring Entity shall respond in writing within five (5) working days of receipt of any such request for clarification received under ITT Sub Clause 9.1.

d. The Procuring Entity shall forward copies of its response to all those who have purchased the Tender Document, including a description of the enquiry but without identifying its source.

e. Should the Procuring Entity deem it necessary to revise the Tender Document as a result of a clarification, it will do so following the procedure under ITT Clause 11.

10. Pre-Tender Meeting

10.1 To clarify issues and to answer questions on any matter arising in the Tender Document, the Procuring Entity may, if stated in the **TDS**, hold a pre-Tender Meeting at the place, date and time as specified in the **TDS**. All potential Tenderers are encouraged and invited to attend the meeting, if it is held.

10.2 Tenderers are requested to submit any questions in writing so as to reach the Procuring Entity not later than one day prior to the date of the meeting.

10.3 Minutes of the pre-Tender meeting, including the text of the questions raised and the responses given, together with any responses prepared after the meeting, will be transmitted within five (5) working days after holding the meeting to all those who purchased the Tender document and to even those who did not attend the meeting. Any revision to the Tender Document listed in ITT Sub Clause 8.1 that may become necessary as a result of the pre-Tender meeting will be made by the Procuring Entity exclusively through the issue of an Addendum pursuant to ITT Sub Clause 11 and not through the minutes of the pre-Tender meeting.

10.4 Non-attendance at the Pre-Tender meeting will not be a cause for disqualification of a Tenderer.

11. Addendum to Tender Document

a. At any time prior to the deadline for submission of Tenders, the Procuring Entity, on its own initiative or in response to an inquiry in writing from a Tenderer, having purchased the Tender Document, or as a result of a pre-Tender meeting may revise the Tender Document by issuing an Addendum.

b. The Addendum issued under ITT Sub Clause 11.1 shall become an integral part of the Tender Document and shall have a date and an issue number and must be circulated by

fax, mail or e-mail, to Tenderers who have purchased the Tender Documents, within five (5) working days of issuance of such Addendum, to enable Tenderers to take appropriate action

c. The Procuring Entity shall also ensure posting of the relevant addenda with the reference number and date on their websites including notice boards, where the Procuring Entity had originally posted the IFTs.

d. To give a prospective Tenderer reasonable time in which to take an addendum into account in preparing its Tender, the Procuring Entity may, at its discretion, extend the deadline for the submission of Tenders, pursuant to ITT Sub Clause 42.2.

e. If an addendum is issued when time remaining is less than **one-third** of the time allowed for the preparation of Tenders, the Procuring Entity at its discretion shall extend the deadline by an appropriate number of days for the submission of Tenders, depending upon the nature of the Procurement requirement and the addendum. In any case, the minimum time for such extension shall not be less than three (3) working days.

C. Qualification Criteria

12. General Criteria

12.1 Tenderers shall possess the necessary professional and technical qualifications and competence, financial resources, equipment and other physical facilities, managerial capability, specific experience, reputation, and the personnel, to perform the contract, which entails setting pass/fail criteria, which if not met by the Tenderers, will result in consideration of its Tender as non-responsive.

12.2 In addition to meeting the eligibility criteria, as stated in ITT Clause 5, Tenderers must satisfy the other criteria stated in ITT Clauses 13 to 18 inclusive

12.3 To qualify for multiple number of contracts/lots in a package made up of this and other individual contracts/lots for which Tenders are invited in the Invitation for Tenders, the Tenderers shall demonstrate having resources sufficient to meet the aggregate of the qualifying criteria for the individual contracts. The requirement of general experience as stated under ITT Sub Clause 14.1(a) and specific experience, unless otherwise of different nature, as stated under ITT Sub Clause 15.1(b) shall not be separately applicable for each individual lot.

13. Litigation History

13.1 Litigation history shall comply with the requirement as stated under ITT Sub Clause15.1(c).

14. Experience Criteria

14.1 Tenderers shall have the following minimum level of construction experience to qualify for the performance of the Works under the Contract:

(a) a minimum number of years of general experience in the construction of works as Prime Contractor or Subcontractor or Management Contractor as specified in the **TDS**; and

(b) specific experience as a Prime Contractor or Subcontractor or Management Contractor in construction works of a nature, complexity and methods/construction technology similar to the proposed Works, in at least a number of contract(s)and, each with a minimum value over the period, as specified in the **TDS**.

15. Financial Criteria

15.1 Tenderers shall have the following minimum level of financial capacity to qualify for the performance of the Works under the Contract.

(a) the average annual **construction** turnover as specified in the **TDS** during the period specified in the **TDS;**

(b) availability of minimum liquid assets i.e. working capital or credit facilities from any scheduled Bank of Bangladesh, net of other contractual commitments, of the amount as specified in the **TDS**;

(c) satisfactory resolution of all claims under litigation cases and shall not have serious negative impact on the financial capacity of the Tenderers. All pending litigation shall be treated as resolved against the Tenderers; and

(d) The Minimum Tender Capacity as specified in the TDS.

16. Personnel Capacity

16.1 Tenderers shall have the following minimum level of personnel capacity to qualify for the performance of the Works under the Contract consisting of a Construction Project Manager, Engineers, and other key staff with qualifications and experience as specified in the **TDS.**

17. Equipment Capacity

17.1 Tenderers shall own suitable equipment and other physical facilities or have proven access through contractual arrangement to hire or lease such equipment or facilities for the desired period, where necessary or have assured access through lease, hire, or other such method, of the essential equipment, in full working order, as specified in the **TDS.**

18. Joint Venture (JV)

18.1 Tenderers may participate in the procurement proceedings forming a Joint Venture(JV) by an agreement, executed case by case on a non-judicial stamp of value as specified in the **TDS** or alternately with the intent to enter into such an agreement supported by a Letter of Intent along with the proposed agreement duly signed by all legally authorised

partners of the intended JV and authenticated by a Notary Public, with the declaration that the partners will execute the JV agreement in the event the Tenderer is successful.

18.2 The figures for each of the partners of a JV shall be added together to determine the Tenderer's compliance with the minimum qualifying criteria; however, for a JV under ITT Sub Clause 18.1, with number of partners as specified in the **TDS** to qualify, Leading partner and other partners must meet the criteria as specified in the **TDS.** Failure to comply with these requirements will result in non-responsiveness of the JV Tender.

18.3 Each partner of the JV shall be jointly and severally liable for the execution of the Contract, all liabilities and ethical and legal obligations in accordance with the Contract terms.

18.4 JV shall nominate the **Leading Partner** as **REPRESENTATIVE** being entrusted with the Contract administration and management at Site who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the Tendering process and, in the event the JV is awarded the Contract, during contract execution including the receipt of payments for and on behalf of the JV.

19. Subcontractor(s)

19.1 Tenderers may intend to subcontract an activity or part of the Works, in which case such elements and the proposed Subcontractor shall be clearly identified.

19.2 The Procuring Entity may require Tenderers to provide more information about their subcontracting arrangements. If any Subcontractor is found ineligible or unsuitable to carry out the subcontracted tasks, the Procuring Entity may request the Tenderers to propose an acceptable substitute.

19.3 A Subcontractor may participate in more than one Tender, but only in that capacity.

19.4 The Procuring Entity may also select in advance Nominated Subcontractor(s) to execute certain specific components of the Works and if so, those will be specified in the **TDS**.

19.5 The successful Tenderer shall under no circumstances assign the Works or any part of it to a Subcontractor.

D. Tender Preparation

20. Only one Tender

20.1 Tenderers shall submit only one (1) Tender for each lot, either individually or as a JV. Tenderer who submits or participates in more than one (1) Tender in one (1) lot of a package or in one (1) package with one (1) lot will cause all the Tenders of that particular Tenderer to be rejected.

21. Cost of Tendering

21.1 Tenderers shall bear all costs associated with the preparation and submission of its Tender, and the Procuring Entity shall not be responsible or liable for those costs, regardless of the conduct or outcome of the Tendering process.

22. Issuance and Sale of Tender Document

22.1 The Procuring Entity shall make Tender Documents available immediately to the potential Tenderers, requesting and willing to purchase at the corresponding price by the date the advertisement has been published in the newspaper.

22.2 There shall not be any pre-conditions whatsoever, for sale of Tender Documents and the sale of such Document shall be permitted up to the day prior to the day of deadline for the submission of Tender.

23. Language of Tender

22.1 Tenders shall be written in the English language. Correspondences and documents relating to the Tender may be written in English or *Bangla.* Supporting documents and printed literature furnished by the Tenderers that are part of the Tender may be in another language, provided they are accompanied by an accurate translation of the relevant passages in the English or *Bangla* language, in which case, for purposes of interpretation of the Tender, such translation shall govern.

22.2 Tenderers shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

24. Contents of Tender

24.1 The Tender prepared by the Tenderers will comprise the following:

(a) the Tender Submission Letter(**Form PW3-1**), as stated under ITT Sub Clause 25.1;

(b) the Tenderer Information as stated under ITT Clauses 5,29 and 32 (**Form PW3-2**);

(c) the priced BOQ for each lot in accordance with ITT Clauses 25,27and 28;

(b) the Tender Security as stated under ITT Clauses 35, 36 and 37.

(c) the alternatives, if permissible, as stated under ITT Clause 26;

(d) the written confirmation authorizing the signatory of the Tender to commit the Tenderer, as stated under ITT Sub Clause 40.3;

(e) the Valid Trade license ;

(f) documentary evidence of Tax Identification Number (TIN) and Value Added Tax (VAT) as a proof of taxation obligations as stated under ITT Sub Clause 5.5;

(g) the Technical Proposal describing work plan & method, personnel, equipment and schedules as stated under ITT Clause 31;

(h) documentary evidence as stated under ITT Clause 29 and 32 establishing the Tenderer's eligibility and the minimum qualifications of the Tenderers required to be met for due performance of the Works and physical services under the Contract;

(i) document establishing legal and financial autonomy and compliance with commercial law, as stated under ITT Sub Clause5.10 in case of government owned entity;

(j) tenderer's past performance information in (**Form PW3-5a**) & documentary evidence for past performance evaluation and rating matrix as stated under ITT Sub Clause 50.2;

(k) tenderer's capacity information in (**Form PW3-5B**) & documentary evidence for tenderers capacity; and

(l) any other document as specified in the **TDS.**

25. Tender Submission Letter and Bill of Quantities

a. Tenderers shall submit the Tender Submission Letter (**Form PW3-1**), which shall be completed without any alterations to its format, filling in all blank spaces with the information requested, failing which the Tender may be rejected as being incomplete.

b. Tenderers shall submit the priced BOQ using the form(s) furnished in **Section 6: Bill of Quantities.**

c. If in preparing its Tender, the Tenderer has made errors in the unit rate or the total price, and wishes to correct such errors prior to submission of its Tender, it may do so, but shall ensure that each correction is initialled by the authorised person of the Tenderer.

26. Alternatives

a. Unless otherwise specified in the **TDS**, alternative technical solutions shall not be considered.

b. When specified in ITT clause 26.1, Tenderers are permitted to submit alternative technical solutions for specified parts of the Works, and such parts will be identified in the **TDS.**

c. Only the technical alternatives, if any, of the lowest evaluated Tenderer conforming to the basic technical requirements will be considered by the Procuring Entity.

27. Tender Prices, Discounts and Price Adjustment

a. The prices and discounts quoted by the Tenderers in the Tender Submission Letter (**Form PW3-1**) and in the BOQ shall conform to the requirements specified below.

27.2 Tenderers shall fill in unit rates for all items of the Works both in figures and in words as described in the BOQ, excluding any discount offered.

27.3 The items quantified in the BOQ for which no unit rates have been quoted by the Tenderer will not be paid for, by the Procuring Entity when executed and shall be deemed covered by the amounts of other rates in the BOQ and, it

shall not be a reason to change the Tender price.

27.4 The price to be quoted in the Tender Submission Letter, as stated under ITT Sub Clause 25.1, shall be the total price of the Tender, excluding any discounts offered.

27.5 Tenderers shall quote any unconditional discounts in the Tender Submission Letter as stated under ITT Sub Clause 25.1.

27.6 Tenderers wishing to offer any unconditional discount to any package or lot as applicable shall mention discount in percentage (%) in the Tender Submission Letter. Discount shall be equally applicable on all the items of BOQ and shall be applied after arithmetic correction of the tender.

27.7 All applicable taxes, custom duties, VAT and other levies payable by the Contractor under the Contract, or for any other causes, as of the date twenty-eight (28) days prior to the deadline for submission of Tenders, shall be included in the unit rates and the total Tender price submitted by the Tenderers.

27.8 Unless otherwise specified in the **TDS** and provided in the Contract, the price of a Contract shall be fixed in which case the unit rates may not be modified in response to changes in economic or commercial conditions.

27.9 If so stated under ITT Sub Clause 27.9, Tenders are being invited with a provision for price adjustments. The unit rates quoted by the Tenderers are subject to adjustment during the performance of the Contract in accordance with the provisions of General Condition of Contract (GCC) Clause 69 and, in such case the Procuring Entity shall provide the indexes and weightings or coefficients in **Appendix to the Tender (Table 1.1 and Table 1.2)** for the price adjustment formulae as specified in the Particular Conditions of Contract (**PCC**).

28. Tender Currency

28.1 Tenderers shall quote all prices in the Tender Submission Letter and in the BOQ in Bangladesh Taka (BDT) currency.

29. Documents Establishing Eligibility of the Tenderer

29.1 Tenderers, if applying as a sole Tenderer, shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, it shall:

(a) complete the eligibility declarations in the Tender Submission Letter (**Form PW3-1**);

(b) complete the Tenderer Information (**Form PW3-2**);

(c) complete Subcontractor Information (**Form PW3-4**), if it intends to engage any Subcontractor(s).

29.2 Tenderers, if applying as a partner of an existing or intended JV shall submit documentary evidence to establish its eligibility as stated under ITT Clause 5 and, in particular, in addition to as stated under ITT Sub Clause 29.1, it shall:

(a) provide for each JV partner, completed JV Partner Information (**Form PW3-3**);

(b) provide the JV agreement or Letter of Intent along with the proposed agreement of the intended JV as stated under ITT Sub Clause 18.1

30. Documents Establishing the Eligibility and Conformity of Materials, Equipment and Services

30.1 Tenderers shall submit documentary evidence to establish the origin of all Materials, Equipment and services to be supplied under the Contract as stated under ITT Clause 6.

30.2 To establish the conformity of the Materials, Equipment and services to be supplied under the Contract, the Tenderers shall furnish, as part of its Tender, the documentary evidence (which may be in the form of literature, specifications and brochures, drawings or data) that these conform to the technical specifications and standards specified in **Section 7, General Specifications** and **Section 8, Particular Specifications.**

31. Documents Establishing Technical Proposal

31.1 Tenderers shall furnish a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated in **TDS**, in sufficient detail to demonstrate the adequacy of the Tenderer's proposal to meet the work requirements and the completion time.

32. Documents Establishing the Tenderer's Qualification

32.1 Tenderers shall complete and submit the Tenderer Information (**Form PW3-2/PW3-3**) and shall include documentary evidence, as applicable to satisfy the following:

(a) general experience, of the entity(s) participating in the Tender, in construction works as stated under ITT Sub Clause 14.1(a), substantiated by the year of registration/constitution/licensing in its country of origin;

(b) specific experience, of the entity(s) participating in the Tender, in construction works under public sector of similar nature and size as stated under ITT Sub Clause 14.1(b), substantiated by Completion Certificate (s) issued by the relevant Procuring Entity(s);

(c) average annual **construction** turnover i.e. total certified payments received for contracts in progress or completed under public sector for a period as stated under ITT Sub Clause 15.1(a), substantiated by Statement(s) of Receipts, from any scheduled Bank of Bangladesh, issued not earlier than twenty-eight (28) days prior to the day of the original

deadline for submission of Tenders;

(d) adequacy of minimum liquid assets i.e. working capital substantiated by Audit Reports mentioned in (i) below or credit line(s) substantiated by any scheduled Bank of Bangladesh in the format as specified (**Form PW3-7**), without alteration, issued not earlier than twenty-eight (28) days prior to the day of the original deadline for submission of Tenders for this Contract as stated under ITT Sub Clause 15.1(b);

(e) information regarding claims under litigation, current or during the last years as specified in the **TDS**, in which the Tenderer is involved, the parties concerned, and value of claim as stated under ITT Sub Clause 15.1(c), substantiated by statement(s) of the entity(s) participating in the Tender in its letter-head pad;

(f) technical and administrative personnel along with their qualification and experience proposed for the Contract as stated under ITT Clause 16;

(g) major items of construction equipment proposed to carry out the Contract as stated under ITT Clause 17, substantiated by statement(s) of the entity(s) participating in the Tender in its letter-head pad declaring source of its availability;

(h) authority(s), to seek references from the Tenderer's Bankers or any other sources, of the entity(s) participating in the Tender in its letter-head pad;

(i) reports on the financial standing of the Tenderer, such as profit and loss statements and audited balance sheet for the past years as specified in the **TDS**, of the entity(s) participating in the Tender, substantiated by Audit Reports.

33. Validity Period of Tender

a. Tenders shall remain valid for the period as specified in the **TDS** after the date of Tender submission deadline. A Tender valid for a period shorter than that specified will be considered, non- responsive.

34. Extension of Tender Validity and Tender Security

34.1 In exceptional circumstances, prior to the expiration of the Tender Validity period, the Procuring Entity may solicit all the Tenderers' consent to an extension of the period of validity of their Tenders; provided that those Tenderers have passed the preliminary examination as stated under ITT Sub Clause 51.3.

34.2 The request for extension of Tender Validity period shall state the new date of the validity of the Tender.

34.2 The request and the responses shall be made in writing. Validity of the Tender Security provided under ITT Clause 35 shall also be suitably extended for twenty-eight (28) days beyond the new date for the expiry of the Tender Validity. If a Tenderer does not respond or refuses the request it shall not forfeit its Tender Security, but its

Tender shall no longer be considered in the evaluation proceedings. A Tenderer agreeing to the request will not be required or permitted to modify its Tender.

35. Tender Security

35.1 Tenderers shall furnish as part of its Tender, in favour of the Procuring Entity or as otherwise directed on account of the Tenderer, a Tender Security in original form (not copy) and in the amount, as specified in the **TDS**.

35.2 If the Tender is a Joint Venture, the Tenderer shall furnish as part of its Tender, in favour of the Procuring Entity or as otherwise directed on account of the title of the existing or intended JV or any of the partners of that JV or in the names of all future partners as named in the Letter of Intent of the JV, a Tender Security in original form and in the amount as stated under ITT Sub Clause 35.1.

35.3 In case of substitution of the Tender as stated under ITT Clause 46 a new Tender Security shall be required in the substituted Tender.

36. Form of Tender Security

36.1 The Tender Security shall:

(a) at the Tenderer's option, be either;

a. in the form of a Bank Draft or Pay Order, or

b. in the form of an irrevocable unconditional Bank Guarantee issued by any scheduled Bank of Bangladesh, in the format (**Form PW3-6**),without any alteration, furnished in **Section 5: Tender and Contract Forms**;

(b) be payable promptly upon written demand by the Procuring Entity in the case of the conditions as stated under ITT Sub Clause 39.1 being invoked; and

(c) remain valid for at least twenty-eight (28) days beyond the expiry date of the Tender Validity in order to make a claim in due course against a Tenderer in the circumstances as stated under ITT Sub Clause 39.1.

37. Authenticity of Tender Security

a. The authenticity of the Tender Security submitted by a Tenderer may be examined and verified by the Procuring Entity at its discretion in writing from the Bank issuing the security.

b. If a Tender Security is found to be not authentic, the Procuring Entity may proceed to take measures against that Tenderer as stated under ITT Sub Clause 4.4.

c. A Tender not accompanied by a valid Tender Security will be considered non-responsive.

38. Return of Tender Security

38.1 No Tender Security shall be returned to the Tenderers before contract signing.

38.2 Unsuccessful Tenderer's Tender Security will be discharged or returned as soon as possible but within twenty-eight (28) days after the expiry of the Tender Validity period as stated under ITT Sub Clauses 33.1.

38.3 The Tender Security of the successful Tenderer will be discharged upon the Tenderer's furnishing of the performance security and signing of the Contract Agreement.

39. Forfeiture of Tender Security

39.1 The Tender Security may be forfeited, if a Tenderer:

(a) withdraws its Tender after opening of Tenders but within the validity of the Tender as stated under ITT Clause 33 and 34; or

(b) refuses to accept a Notification of Award as stated under ITT Sub Clause 64.3; or

(c) fails to furnish Performance Security as stated under ITT Sub Clause 65.1 and 65.2; or

(d) refuses to sign the Contract as stated under ITT Sub Clause 70.2; or

(e) does not accept the correction of the Tender price following the correction of the arithmetic errors as stated under ITT Clause 55.

40. Format and Signing of Tender

40.1 Tenderers shall prepare one (1) original of the documents comprising the Tender as described in ITT Clause 24 and clearly mark it "ORIGINAL" In addition, the Tenderers shall prepare the number of copies of the Tender, as specified in the **TDS** and clearly mark each of them "COPY." In the event of any discrepancy between the original and the copies, the ORIGINAL shall prevail.

40.2 Alternatives, if permitted as stated under ITT Clause 26, shall be clearly marked "Alternative".

40.3 The original and each copy of the Tender shall be typed or written in indelible ink and shall be signed by the Person duly authorized to sign on behalf of the Tenderer. This Tender specific authorization shall be attached to the Tender Submission Letter (**Form PW3-1**). The name and position held by each Person(s) signing the authorization must be typed or printed below the signature. All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed by the person signing the Tender.

40.4 Any interlineations, erasures, or overwriting will be valid only if they are signed or initialled by the Person(s) signing the Tender.

E. Tender Submission

41. Sealing, Marking and Submission of Tender

41.1 Tenderers shall enclose the original in one (1) envelope and all the copies of the Tender, including the alternatives, if permitted under ITT Clause 26, in another envelope, duly marking the envelopes as "ORIGINAL (O)" "ALTERNATIVE (A)" (if permitted) and "COPY." These

sealed envelopes will then be enclosed and sealed in one (1) single outer envelope.

41.2 The inner and outer envelopes shall:

(a) be addressed to the Procuring Entity at the address as stated under ITT Sub Clause 42.1;

(b) bear the name of the Tender and the Tender Number as stated under ITT Sub Clause 1.1;

(c) bear the name and address of the Tenderer;

(d) bear a statement "DO NOT OPEN BEFORE ---------- ----------" the time and date for Tender opening as stated under ITT Sub Clause 48.1;

(e) bear any additional identification marks as specified in the **TDS.**

41.3 Tenderers are solely and entirely responsible for pre-disclosure of Tender information if the envelope(s) are not properly sealed and marked.

41.4 Tenders shall be delivered by hand or by mail, including courier services at the address(s) as stated under ITT Sub Clause 42.1.

41.5 The Procuring Entity will, on request, provide the Tenderer with acknowledgement of receipt showing the date and time when it's Tender was received.

42. Deadline for Submission of Tender

42.1 Tenders shall be delivered to the Procuring Entity at the address specified in the **TDS** and not later than the date and time specified in the **TDS.**

42.2 The Procuring Entity may, at its discretion, extend the deadline for submission of Tender as stated under ITT Sub Clause 42.1, in which case all rights and obligations of the Procuring Entity and Tenderers previously subject to the deadline will thereafter be subject to the new deadline as extended.

42.3 If submission of Tenders is allowed in more than one location, the date and time, for submission of Tenders for both the primary and the secondary place(s), shall be the "**same and not different**" as specified in the **TDS.**

42.4 The Procuring Entity shall ensure that the Tenders received at the secondary place(s) are hand-delivered at the primary place as stated under ITT Sub Clause 42.1, within THREE (3) HOURS after the deadline for submission of Tenders at the secondary place (s), in case of MULTIPLE DROPPING as stated under ITT Sub Clause 42.3, as specified in the **TDS**.

43. Late Tender

43.1 Any Tender received by the Procuring Entity after the deadline for submission of Tenders as stated under ITT Sub Clause 42.1shall be declared LATE and returned unopened to the Tenderer.

44. Modification, Substitution or Withdrawal of Tender

44.1 Tenderers may modify, substitute or withdraw its Tender after it has been submitted by sending a written notice duly signed by the authorized signatory and properly sealed, and shall include a copy of the authorization ; provided

that such written notice including the affidavit is received by the Procuring Entity prior to the deadline for submission of Tenders as stated under ITT Clause 42.

45. Tender Modification

45.1 Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit corresponding modification to its original Tender marked as "**MODIFICATION (M)".**

46. Tender Substitution

46.1 Tenderers shall not be allowed to retrieve its original Tender, but shall be allowed to submit another Tender marked as **"SUBSTITUTION (S)".**

47. Tender Withdrawal

47.1 Tenderers shall be allowed to withdraw its Tender by a Letter of Withdrawal marked as **"WITHDRAWAL(W)".**

F. Tender Opening and Evaluation

48. Tender Opening

48.1 Tenders shall be opened immediately after the deadline for submission of Tenders at the primary place as specified in the **TDS** but not later than **ONE HOUR** after expiry of the submission deadline at the same primary place unless otherwise stated under ITT Sub Clause 48.2.

48.2 If submission of Tenders is allowed in more than one location as stated under ITT Sub Clause 42.3 and 42.4, Tenders shall be opened, immediately after receipt of Tenders from all the secondary place(s), at the primary place at the date and time as stated under ITT Sub Clause 48.1.

48.3 Persons not associated with the Tender may not be allowed to attend the public opening of Tenders.

48.4 Tenderers' representatives shall be duly authorised by the Tenderer. Tenderers or their authorised representatives will be allowed to attend and witness the opening of Tenders, and will sign a register evidencing their attendance.

48.5 The authenticity of withdrawal or substitution of, or modifications to original Tender, if any made by a Tenderer in specified manner, shall be examined and verified by the Tender Opening Committee (TOC) based on documents submitted as stated under ITT Sub Clause 44.1.

48.6 Ensuring that only the correct (M), (S), (A), (O) envelopes are opened, details of each Tender will be dealt with as follows:

38.4 the Chairperson of the TOC will read aloud each Tender and record in the Tender Opening Sheet

(TOS):

(i) the name and address of the Tenderer;

(ii) state if it is a withdrawn, modified, substituted or original Tender;

(iii) the Tender price;

(iv) the official cost estimate;

(v) any discounts;

(vi) any alternatives;

(vii) the presence or absence of any requisite Tender Security; and

(viii) such other details as the Procuring Entity, at its discretion, may consider appropriate

38.5 only discounts and alternatives read aloud at the Tender opening will be considered in evaluation.

38.6 all pages of the original version of the Tender, except for un-amended printed literature, will be initialled by members of the TOC.

48.7 Upon completion of Tender opening, all members of the TOC and the Tenderers or Tenderer's duly authorised representatives attending the Tender opening shall sign by name, address, designation, the TOS, copies of which shall be issued to the Head of the Procuring Entity or an officer authorised by him or her and also to the members of the TOC and any authorised Consultants and, to the Tenderers immediately.

48.8 The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record under ITT Sub Clause 48.6.

48.9 No Tender will be rejected at the Tender opening stage except the LATE Tenders as stated in the ITT Clause 43.

49. Evaluation of Tenders

49.1 Tenders shall be examined and evaluated only on the basis of the criteria specified in the Tender Document.

49.2 **Tender Evaluation Committee** (**TEC**) shall examine, evaluate and compare Tenders that are responsive to the requirements of Tender Documents in order to identify the successful Tenderer.

49.3 Tenderers having quoted the tender price more than 10 (Ten) percent above or below the official cost estimate, the tender will be rejected.

50. Evaluation Process

50.1 TEC may consider a Tender as responsive in the Evaluation, only if it is submitted in compliance with the mandatory requirements set out in the Tender Document. The evaluation process should begin immediately after Tender opening following four steps:

(a) Preliminary examination

(b) Technical examination and responsiveness

(c) Financial evaluation and price comparison

(d) Post-qualification of the Tender.

50.2 In case of tie for the evaluated price, the tenderer shall be selected based on the "Past Performance Evaluation and rating matrix for different aspects" to be used in assessing the Tenderer's quality as stated below:

Past Performance Evaluation Matrix

Aspect No.	Aspect	Point	Score	Note
1	Total Number of Works Contract successfully completed within only PE's organization during last 5 years	140	$\text{Score } 1 = \frac{A}{B} \times 140$ A= Number of Completed Contracts of the Tenderer B= Highest Number of Completed Contracts among the Tenderers	Tenderers shall submit a list of Successfully Completed Contracts (in Form-PW3-5.1) during the last 5 years under the Procuring Entity's organization inviting tender, supported by Completion Certificates. A Contract not supported by Completion Certificate shall not be taken into evaluation. TEC shall determine the Total Number and Total Value of Contracts from the List as provided by the Tenderers for which the Contract Value of each Contract is up to +75% of the Official Cost Estimate of the proposed Work.
2	Total Value of Works Contract successfully completed within only PE's organization during last 5 years	100	$\text{Score } 2 = \frac{C}{D} \times 100$ C= Value of Completed Contracts of the Tenderer D= Highest Value of Completed Contracts among the Tenderers	
3	Total Value of On-going works and Current Commitment under all PEs Organization as shown in Tender Capacity Formula	60	$\text{Score } 3 = \frac{E}{F} \times 60$ E= Value of On-Going Works and Current Commitments of the Tenderer F= Highest Value of On-Going Works and Current Commitments among the Tenderers	Tenderers shall submit a list of On-going Contracts and Current Commitments (in Form-PW3-5.1) under any government organization supported by Contract Agreement / Notice to Proceed A Contract not supported by Contract Agreement / Notice to Proceed shall not be taken into consideration.
	Total Point	300	Total Score =Score 1+Score 2+Score 3	

50.3 In case of the Tenderer is a JV, the business share of the JV Partners of this Tender shall be applied in determining the JV Total Contract Numbers and Values.

50.4 If the total score of all the Tenderers become 0.00 (zero), the Tender shall be rejected for Re-Tendering.

50.5 In very rare case of highest equal Total Scores, Winner shall be selected according to Score 1, if Score 1 is same then Winner shall be selected according to Score 2. Otherwise Tender shall be rejected for Re-Tendering.

51. Preliminary Examination

a. TEC shall examine the Tenders to confirm that all documentation as stated under ITT Clause 24 has been provided, to determine the completeness of each document submitted.

b. TEC shall confirm that the following documents and information have been provided in the Tender. If any of these documents or information is missing, the Tender shall be considered rejected.

(a) Tender Submission Letter;
(b) Priced Bill of Quantities;
(c) Written confirmation authorizing the signatory of the Tender to commit the Tenderer; and
(d) Valid Tender Security.

52. Technical Responsiveness and Technical Evaluation

52.1 TEC's determination of a Tender's responsiveness is to be based on the contents of the Tender itself without recourse to extrinsic evidence.

52.2 A responsive Tender is one that conforms in all respects to the requirements of the Tender Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that:

(a) affects in any substantial way the scope, quality, or performance of the Works and physical services specified in the Contract; or
(b) limits in any substantial way, or is inconsistent with the Tender Documents, the Procuring Entity's rights or the Tenderer's obligations under the Contract; or
(c) if rectified would unfairly affect the competitive position of other Tenderers presenting responsive Tenders.

During the evaluation of Tenders, the following definitions shall apply:

"Deviation" is a departure from the requirements specified in the Tender Document;

"Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document; and

"Omission" is the failure to submit part or all of the information or documentation required in the Tender Document.

52.3 If a Tender is not responsive to the mandatory requirements set out in the Tender Document, shall not subsequently be made responsive by the Tenderer by correction of the material deviation, reservation, or omission.

52.4 There shall be no requirement as to the minimum number of responsive Tenders.

52.5 There shall be no automatic exclusion of Tenders which are above or below the official estimate except ITT sub-Clause 49.3.

52.6 TEC shall evaluate the aspects of the Tender submitted as stated under ITT Clauses 29, 30,31 and 32 and, to confirm that all requirements specified in Section 7: General Specifications and Section 8: Particular Specifications of the Tender Document have been met without any material deviation, reservation or omission.

52.7 Provided that a Tender is responsive, TEC may request that the Tenderer submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial nonconformities or omissions in the Tender related to documentation requirements. Such omission shall not be related to any aspect of the rates of the Tender reflected in the Priced BOQ or any mandatory criteria. Failure of the Tenderer to comply with the request may result in the consideration of its Tender as non-responsive.

52.8 TEC may regard a Tender as responsive even if it contains;

(a) minor or insignificant deviations which do not meaningfully alter or depart from the technical specifications, characteristics and commercial terms and, conditions or other mandatory requirements set out in the Tender Document; or

(b) errors or oversights, that if corrected, would not alter the key aspects of the Tender.

53. Clarification on Tender

53.1 TEC may ask Tenderers for clarification of their Tenders, including breakdowns of unit rates, in order to facilitate the examination and evaluation of Tenders. The request for clarification by the TEC and the response from the Tenderer shall be in writing, and Tender clarifications which may lead to a change in the substance of the Tender or in any of the key elements of the Tender as stated under ITT Sub Clause 52.2, will neither be sought nor be permitted.

53.2 Changes in the Tender price shall also not be sought or permitted, except to confirm the correction of arithmetical errors discovered by the TEC in the evaluation of the Tenders, as stated under ITT Sub Clause 55.1.

53.3 Any request for clarifications by the TEC shall not be directed towards making an apparently non-responsive Tender responsive and reciprocally the response from the concerned Tenderer shall not be articulated towards any addition, alteration or modification to its Tender.

53.4 If a Tenderer does not provide clarifications of its Tender by the date and time, its Tender shall not be considered in the evaluation

54. Restrictions on Disclosure of Information

a. Following the opening of Tenders until issuance of Notification of Award no Tenderer shall, unless requested to provide clarification to its Tender or unless necessary for submission of a complaint, communicate with the concerned Procuring Entity

54.2 Tenderers shall not seek to influence in anyway, the examination and evaluation of the Tenders

54.3 Any effort by a Tenderer to influence the Procuring Entity in its decision concerning the evaluation of Tenders, Contract awards may result in the non-responsiveness of its Tender as well as further action in accordance with Section 64 (5) of the Public Procurement Act, 2006.

54.4 All clarification requests shall remind Tenderers of the need for confidentiality and that any breach of confidentiality on the part of the Tenderer may result in their Tender being non-responsive.

55. Correction of Arithmetical Errors

55.1 Provided that the Tender is responsive, the TEC shall correct arithmetical errors on the following basis:

(a) if there is a discrepancy between the unit price and the line item total price that is obtained by multiplying the unit price and quantity, the unit price will prevail and the line item total price shall be corrected, unless in the opinion of the TEC there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted will govern and the unit price will be corrected; and

(b) if there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and

(c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above.

55.2 TEC shall correct the arithmetic errors and shall promptly notify the concerned Tenderer(s).If the Tenderer does not accept the correction of arithmetic errors, its Tender shall be rejected.

56. Financial Evaluation

56.1 TEC will evaluate each Tender that has been determined, up to this stage of the evaluation, to be responsive to the requirements set out in the Tender Document.

56.2 To evaluate a Tender, the TEC will consider the following:

(a) the Tender price, excluding Provisional Sums and the provision, if any, for contingencies in the priced BOQ, but including Daywork items ;

(b) adjustments for correction of arithmetical errors, as stated under ITT Sub Clause 55.1;

(c) adjustments in order to take into consideration the unconditional discounts as stated under ITT Sub Clause 27.5 and 27.6, if any..

56.3 Variations, deviations, alternatives and other factors which are in excess of the requirements of the Tender Document or otherwise result in unsolicited benefits for the Procuring Entity will not be taken into account in Tender evaluation.

56.4 The estimated effect of any price adjustment provisions under GCC Clause 71, applied over the period of execution of the Contract, will not be taken into account in Tender evaluation.

56.5 If so indicated in the ITT Sub Clause 1.1 the Procuring Entity may award one or multiple lots to one Tenderer following the methodology specified in ITT Sub Clause 56.6.

56.6 To determine the lowest-evaluated lot/package the TEC will take into account:

(a) the lowest-evaluated Tender for each lot;

(b) the resources sufficient to meet the qualifying criteria for the individual lot or aggregate of the qualifying criteria for the multiple lots;

(c) the price reduction on account of discount per lot/package as offered by the Tenderer in its Tender; and

(d) the Contract-award sequence that provides the optimum economic combination on the basis of least overall cost of the total Contract package taking into account any limitations due to constraints in Works or execution capacity determined in accordance with the tender capacity as stated in ITT Sub Clause 15.1 (d) and post-qualification criteria as stated under ITT Clause 59.

56.7 TEC may recommend to increase the amount of the Performance Security above the amounts as stated under ITT Sub Clause 65.1 but not exceeding twenty-five (25) percent of the Contract Price, if in the opinion of TEC, it is found that the Tender is significantly below the updated official estimated cost or unbalanced as a result of front loading.

57. Price Comparison

57.1 TEC shall compare all responsive Tenders to determine the lowest-evaluated Tender, as stated under ITT Clause 56.

57.2 In the extremely unlikely event that there is a tie for the

lowest evaluated price, the Tenderer with the superior past performance as stated in ITT sub-clause 50.2 shall be selected.

57.3 In the event that there is a tie for the lowest price and none of the Tenderers has the record of past performance with the Procuring Entity as stated under ITT Sub Clause 57.2, then the Tenderer shall be selected, subject to firm confirmation through the Post-qualification process, after consideration as to whether the Tenderer has demonstrated in its Tender superior past performance with the other Procuring Entities or a more efficient work programme and work methodology.

57.4 The successful Tenderer as stated under ITT Sub Clause 57.1, 57.2 and 57.3 shall not be selected through lottery under any circumstances.

58. Negotiations

58.1 No negotiations shall be held during the Tender evaluation or award, with the lowest or any other Tenderer.

58.2 The Procuring Entity through the TEC may, however, negotiate with the lowest evaluated Tenderer with the objective to reduce the Contract Price by reducing the scope of works or a reallocation of risks and responsibilities, only when it is found that the lowest evaluated Tender is significantly higher than the official estimated cost; the reasons for such higher price being duly investigated.

58.3 If the Procuring Entity decides to negotiate for reducing the scope of the requirements under ITT Sub Clause 58.2, it will be required to guarantee that the lowest Tenderer remains the lowest Tenderer even after the scope of work has been revised and shall further be ensured that the objective of the Procurement will not be seriously affected through this reduction.

58.4 In the event that the Procuring Entity decides because of a high Tender price to reduce the scope of the requirements to meet the available budget, the Tenderer is not obliged to accept the award and shall not be penalised in any way for un-accepting the proposed award.

59. Post-qualification

59.1 The determination on Post-qualification shall be based upon an examination of the documentary evidence of the Tenderer's qualifications submitted by the Tenderer, pursuant to ITT Clause 32, clarifications as stated under ITT Clause 53 and the qualification criteria indicated in ITT Clauses 12 to 17. Factors not included therein shall not be used in the evaluation of the Tenderer's qualification.

59.2 An affirmative determination shall be a prerequisite for award of the Contract to the Tenderer. A negative determination shall result in non-responsiveness of the Tenderer's Tender, in which event the Procuring Entity shall proceed to the next lowest evaluated Tender to make a similar determination of that Tenderer's capabilities to

perform the Contract satisfactorily, if awarded.

59.3 TEC may verify information contained in the Tender by visiting the premises of the Tenderer as a part of the post qualification process, if practical and appropriate.

60. Procuring Entity's Right to Accept any or to Reject Any or All Tenders

60.1 The Procuring Entity reserves the right to accept any Tender or to reject any or all the Tenders any time prior to contract award and , to annul the Procurement proceedings with prior approval of the Head of the Procuring Entity, any time prior to the deadline for submission of Tenders following specified procedures, without thereby incurring any liability to Tenderers, or any obligations to inform the Tenderers of the grounds for the Procuring Entity's action.

61. Rejection of All Tenders

61.1 The Procuring Entity may, in the circumstances as stated under ITT Sub Clause61.2 reject all Tenders following recommendations from the TEC only after the approval of such recommendations by the Head of the Procuring Entity.

61.2 All Tenders can be rejected, if -

(a) the price of the lowest evaluated Tender exceeds the official estimated cost, provided the estimate is realistic, subject to ITT Sub Clause 58.2 ; or

(b) there is evidence of lack of effective competition; such as non-participation by a number of potential Tenderers; or

(c) the Tenderers are unable to propose completion of the contract within the stipulated time in its Tender, though the stipulated time is reasonable and realistic; or

(d) all Tenders are non-responsive; or

(e) evidence of professional misconduct, affecting seriously the Procurement process, is established pursuant to Rule 127 of the Public Procurement Rules, 2008

61.3 Notwithstanding anything contained in ITT Sub-Clause 61.2 Tenders may not be rejected if the lowest evaluated price is in conformity with the market price.

62. Informing Reasons for Rejection

62.1 Notice of the rejection will be given promptly within seven (7) working days of decision taken by the Procuring Entity to all Tenderers and, the Procuring Entity will, upon receipt of a written request, communicate to any Tenderer the reason(s) for its rejection but is not required to justify those reason(s).

G. Contract Award

63. Award Criteria

63.1 The Procuring Entity shall award the Contract to the Tenderer whose Tender is responsive to all the

requirements of the Tender Document and that has been determined to be the lowest evaluated Tender, provided further that the Tenderer is determined to be Post-qualified in accordance with ITT Clouse 59.

63.2 Tenderer will not be required, as a condition for award, to undertake responsibilities not stipulated in the Tender Documents, to change its price, or otherwise to modify its Tender.

64. Notification of Award

64.1 Prior to the expiry of the Tender Validity period and within one (1) week of receipt of the approval of the award by the Approving Authority, the Procuring Entity shall issue the Notification of Award (NOA) to the successful Tenderer.

64.2 The NOA, attaching the contract as per the sample (**Form PW3-8**) to be signed, shall state :

(a) the acceptance of the Tender by the Procuring Entity;

(b) the price at which the contract is awarded;

(c) the amount of the Performance Security and its format;

(d) the date and time within which the Performance Security shall be furnished; and

(e) the date and time within which the Contract shall be signed.

64.3 The NOA shall be accepted by the successful Tenderer within seven (7) working days from the date of its issuance.

64.4 Until a formal contract is signed, the NOA will constitute a Contract, which shall become binding upon the furnishing of a Performance Security and the signing of the Contract by both parties.

65. Performance Security

65.1 Performance Security shall be provided by the successful Tenderer in BDT currency, of the amount as specified in the **TDS**.

65.2 The Procuring Entity shall increase the amount of the Performance Security on the recommendation of TEC above the amounts as stated under ITT Sub Clause 56.7.

65.3 The proceeds of the Performance Security shall be payable to the Procuring Entity unconditionally upon first written demand as compensation for Contractor's failure to complete its obligations under the Contract.

65.4 In the event a Government owned enterprise as stated under ITT Sub Clause 5.10 is the successful Tenderer, Performance Security, as stated under ITT Sub Clause 65.1, shall not be required and, in lieu, there shall be Retention Money as specified in the **TDS.**

66.**Form and Time Limit for Furnishing of Performance Security**

66.1 Performance Security, as stated under ITT Clause 65, may be in the form of a Bank Draft, Pay Order or an irrevocable unconditional Bank Guarantee in the format (**Form PW3-10**), without any alteration, issued by any scheduled Bank of Bangladesh acceptable to the Procuring Entity.

66.2 Within fourteen (14) days from the date of acceptance of the NOA but not later than the date specified therein, the successful Tenderer shall furnish the Performance Security for the due performance of the Contract in the amount as stated under ITT Sub Clauses 65.1 or 65.2.

67.**Validity of Performance Security**

67.1 Performance Security shall be required to be valid until a date twenty-eight (28) days beyond the Intended Completion Date as specified in Tender Document.

68. Authenticity of Performance Security

68.1 The Procuring Entity shall verify the authenticity of the Performance Security submitted by the successful Tenderer by sending a written request to the branch of the Bank issuing the Pay Order, Bank Draft or irrevocable unconditional Bank Guarantee in specified format.

69. Contract Signing

69.1 At the same time as the Procuring Entity issues the NOA, the Procuring Entity will send the draft Contract Agreement and all documents forming the Contract to the successful Tenderer.

69.2 Within twenty–eight (28) days of the issuance of the NOA, the successful Tenderer and the Procuring Entity shall sign the contract. In the event the successful Tenderer is a JV, all partners of that JV must sign.

69.3 Failure of the successful Tenderer to submit the Performance Security, as stated under ITT Sub Clause 65.1, or to sign the Contract, as stated under ITT Sub Clause69.2, shall constitute sufficient grounds for the annulment of the award and forfeiture of the Tender Security. In that event the Procuring Entity may award the Contract to the next lowest evaluated responsive Tenderer, who is determined by the TEC to be qualified to perform the Contract satisfactorily.

70. Publication of Notification of Award of Contract

70.1The NOA for Contract shall be notified by the Procuring Entity to the Central Procurement Technical Unit within seven (**7**) days of its issuance for publication in their website, and that notice shall be kept posted for not less than a month.

71. Debriefing of

72.1 Debriefing of Tenderers by the Procuring Entity shall outline the relative status and weakness only of his or

Tenderers

her Tender requesting to be informed of the grounds for not accepting the Tender submitted by him or her, without disclosing information about any other Tenderer.

72.2 In the case of debriefing, confidentiality of the evaluation process shall be maintained.

72. Adjudicator

72.3 The Procuring Entity proposes the person named in the **TDS** to be appointed as Adjudicator under the Contract, at an hourly fee and for those reimbursable expenses as specified in the **TDS**.

73. Right to Complain

73.1 Tenderer has the right to complain in accordance with the Public Procurement Act 2006 and the Public Procurement Rules, 2008.

Section 2. Tender Data Sheet

Instructions for completing Tender Data Sheet are provided in italics in parenthesis for the relevant ITT clauses	
ITT Clause	**Amendments of, and Supplements to, Clauses in the Instructions to Tenderers**
A. General	
ITT 1.1	The Procuring Entity **The Security Printing Corporation (Bangladesh) Ltd.**
	The Name of the Tender is: **Construction and fabrication of high security steel structure & reinforced concrete vault building.** **Design Phase**: a. Architectural, Structural, Plumbing & Sanitary, Internal & External Electrification, HVAC, Firefighting and Others (as per requirement) b. Detail Estimate, BoQ, Item wise specification and detail technical specification. **Construction Phase**: As per selected/final design drawing, technical specification and bid schedule site preparation, excavation, foundation works, steel fabrication and installation, RCC and Masonry works, plumbing & sanitary works, Internal & External Electrification, HVAC and firefighting works. Tender Ref: 21/2025
ITT3.1	The source of public funds is SPCBL's Own fund.
ITT3.3	The name of the Development Partner is None.
ITT5.1	Tenderers from the following countries are not eligible: Israel
ITT 5.13	Tenderers shall have the following up to date valid License ABC Category Electrical Supervisory License from Bangladesh Electrical Licensing Board
ITT6.1	Materials, Equipment and associated services from the following countries are not eligible: Israel
B. Tender Document	
ITT8.2	The following are authorised agents/offices of the Procuring Entity for the purpose of issuing the Tender Document: Agent's/office Name: Md. Mustafizur Rahman, Chief Engineer (Engineering Department) Address: Engineering Department, SPCBL, Gazipur-1703 Telephone: +88-02-223375590 e-mail address: info@spcbl.org.bd
ITT9.1	For **clarification of Tender Document purposes** only, the Procuring Entity's address is: Attention: Md. Mustafizur Rahman, Chief Engineer (Engineering Department) Address: Engineering Department, SPCBL, Gazipur-1703 Telephone: +88-02-223375590 e-mail address: info@spcbl.org.bd and contact the Procuring Entity within **[08/02/2026]**

ITT10.1	A Pre- Tender meeting shall be held at Address: SPCBL Board Room, The Security Printing Corporation (Bangladesh) Ltd., Shimultply, BOF, Gazipur Sadar, Gazipur-1703. Time & Date: 11:00AM, 17/02/2026 (Tuesday)

C. Qualification Criteria

ITT 14.1(a)	The minimum number of years of general experience of the Tenderer in the construction works as Prime Contractor or Subcontractor or Management Contractor shall be 10 years. For JV: Leading firm 10 years & other 5 years. Years counting backward from the date of publication of IFT in the newspaper.
ITT 14.1(b)	The minimum specific experience as a Prime Contractor or Subcontractor or Management Contractor in construction works of at least 01(One) contract in the field of construction of steel structures i.e. steel structured go-down/steel structured industry building or other steel structured installation as well as RCC construction works successfully completed within the last 05 (Five) years, with a value of at least Tk. 10,00,00,000/-(Taka Ten Crores Only) in Government/Semi-government/ Corporation/Autonomous Organization/Private Organization. Where Steel Structure Component value must be at least 40% of completed total contract value. [years counting backward from the date of publication of IFT in the newspaper]
ITT 15.1(a)	The required average annual construction turnover shall be greater than Tk 7 (Seven) Crore The period may be best three (3) years in the last five (5) years. Years counting backward from the date of publication of IFT in website.
ITT 15.1(b)	The minimum amount of liquid assets i.e working capital or credit line(s) of the Tenderers shall be Tk 2 (Two) Crore.
ITT 15.1(d).	The minimum capacity shall be: Tk. 7 Crore The following formulae shall be used to calculate the Tender Capacity Assessed Tender Capacity = (A*N*1.5-B) Where A=Maximum value of Works performed in any one year during last five years N= Completion time of the proposed work in years B= Value of Existing commitments and works to be completed during the next N Years Note 1: In case the value of N is less than 12 (twelve) months the value of N shall be considered as 01 (one) Note 2: In case of JV tender capacity requirement for leading partner shall be minimum 40% and for other partners shall be minimum 25%.

ITT 16.1

A Construction Project Manager, Engineer, and other key staff shall have the following qualifications and experience:

No	Position and number of post.	Total Works Experience (Years)	Experience in similar works (Years)
01.	Project Engineer (B.Sc. Engg. in Civil)-1	10 years	5 years
02	Electrical (B.Sc. Engg. in Electrical & Electronic)-1	7 years	5 years
03	Mechanical Engineer expert in HVAC and Firefighting (B.Sc. Engg. in Mechanical Engineering)-1	7 years	5 years
04	Site Engineer (Diploma Engg. in Civil)-2	03 years	02 years
05	Surveyor (Diploma Survey)-1	03 years	01 years

Tenderer shall be submitted authentic bio-data with contact detail & NID, If Tenderer submit the false person bio-data then it consider as fraudulent practice.

ITT 17.1

Tenderers shall own or have proven access to hire or lease of the major construction equipment, in full working order as follows:

No	Equipment Type and Characteristics	Minimum Number Required
01	Excavator	01 Nos.
02	Hydraulic Rotary pile rig meshing	1 Set
03	Batching Plant (min 0.5cum bucket and 15~20cum per hour production capacity)	1 Set
04	Soil/Earth Compactor Machine	02 No.
05	Mixture Machine	02 Nos.
06	Auto gas cutting Machine	01 set
07	CNC Machine of Core Drilling	01 set
08	Hydraulic Pile Hammer suitable for driving pre-cast RCC piles	01 set
09	Welding Test	01 set
10	Vibrator , Nozzle etc.	10 Sets.
11	Steel Shuttering & Scaffolding	700 Sqm
12	Crane 50~100 ton	2 nos
13	Total Station	1 set
14	Level Meshing	1set
15	Other necessary equipment's mentioned in technical description of BoQ.	Required number to perform the work.

Tenderer shall be submitted equipment's Chassis number, Certificate of purchase or proven documents of hire or lease.

ITT 18.1

The value of non-judicial stamp for execution of the Joint Venture Agreement shall be Tk 300 (Three Hundred) only.

ITT 18.2

Maximum number of partners in the JV shall be 2 (Two)

	The **minimum qualification** requirements of Leading Partner, other Partner(s) and requirements by summation of a JV shall be as follows :

TDS Clauses References	Requirements by summation	Requirements for Leading Partner	Requirements for other Partner(s)
ITT-14.1(a)	Summation not applicable	Same as stated in **TDS**	Same as for Leading Partner
ITT-14.1(b)	100% (summation of different contracts)	At least one Contract	Minimum requirement not applicable
ITT-15.1(a)	100%	40%	25%
ITT-15.1(b)	100%	40%	25%
ITT-16.1(a)	100%	Minimum requirement not applicable	Minimum requirement not applicable
ITT-17.1	100%	Minimum requirement not applicable	Minimum requirement not applicable

ITT 19.4	The Nominated Subcontractor(s) named [insert name(s)] shall execute the following specific components of the proposed Works: None.

D. Tender Preparation

ITT 24.1 (m)	Tenderers shall submit with its Tender the following additional documents: 1. Up to date Trade License. 2. BIN Certificate. 3. Income Tax Certificate (up to date).
ITT 26.1	Alternatives will not be permitted.
ITT 26.2	Alternative technical solutions for any parts of works will not be permitted.
ITT 27.9	The prices quoted by the Tenderers shall be fixed for the duration of the Contract.
ITT 31.1	The required Technical Proposal shall include the following additional information: *Work Plan.*
ITT 32.1(e)	The required information regarding claims under litigation shall be current or during the last 5 (Five) years.
ITT 32.1 (i)	The required reports on the financial standing, such as profit and loss statements and audited balance sheet shall be for the last 3 (Three) years.
ITT 33.1	The Tender Validity period shall be *[180]* days.
ITT 35.1	The amount of the Tender Security shall be Tk. ***65,00,000.00 (Sixty Five Lakh Only)*** in favour of **Managing Director, SPCBL, Gazipur-1703**
ITT 40.1	Only original copy shall be submitted. No additional needed.

E. Tender Submission	
ITT 41.2(e)	The inner and outer envelopes shall bear the following additional identification marks : *[state the name and/or number that must appear on the Tender envelope to identify this specific Tendering process]*
ITT 42.1	For **Tender submission purposes** only, the Procuring Entity's address is: Attention: Md. Mustafizur Rahman, Chief Engineer (Engineering Department) Address: Main Lobby, The Security Printing Corporation (Bangladesh) Ltd., BOF, Gazipur Sadar, Gazipur-1703 The deadline for submission of Tenders is : Time & Date: 11:00AM, 05/03/2026.
ITT 42.3	For **Tender submission purposes** only, the Procuring Entity's address is: Multiple dropping not allowed. *[in case of multiple dropping state below the addresses of the **PRIMARY PLACE** and **SECONDARY PLACES with Time and Date**]* Attention: :[*state full name with designation of the person*] Address **(PRIMARY PLACE):** *[state detail address including floor and room number]* The deadline for the submission of Tenders is: Time & Date:
	Attention: :[*state full name with designation of the person*] Address **(SECONDARY PLACES):** *[state detail address including floor and room number]* The deadline for the submission of Tenders is: Time & Date: *[the deadline for submission of Tenders at the **Secondary Place(s)** shall be, the same as and not different from that, specified for **Primary Place**]*
ITT 42.4	The deadline for hand-delivering of the Tenders at the **PRIMARY PLACE** is: Time & Date: *[must be within three(3) hours after the deadline for submission of Tenders at the **SECONDARY PLACES**]*
F. Tender Opening and Evaluation	
ITT 48.1	The Tender opening shall take place at (*state always the **Primary Place***): Address: Address: Tender Room, SPCBL's Head Office, BOF, Gazipur Sadar, Gazipur Time & Date: 11.15 AM, 05/03/2026

G. Contract Award	
ITT 65.1	The amount of Performance Security shall be *ten(10)* present of the Contract Price.
ITT 65.4	The Retention Money shall be deducted @ ten (10) percent from the successful Tenderer's payable invoices during Contract implementation, if awarded the Contract.
ITT 72.1	The Adjudicator proposed by the Procuring Entity is *[Managing Director of The Security Printing Corporation (Bangladesh) Ltd., Gazipur].* The hourly fee shall be Tk *[3000]* and the reimbursable expenses shall be limited to *[Transport and Food]*

Section 3. General Conditions of Contract

A. General

1. Definitions

1.1 In the Conditions of Contract, which include Particular Conditions and these General Conditions, the following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined terms:

(a) **Act means** The Public Procurement Act, 2006 (Act 24 of 2006).

(b) **Adjudicator** is the expert appointed jointly by the Procuring Entity and the Contractor to resolve disputes in the first instance, as provided for in GCC Sub Clause 92.2.

(c) **Approving Authority** meansthe authority which, in accordance with the Delegation of Financial Powers, approves the award of contract.

(d) **Bill of Quantities (BOQ)** means the priced and completed Bill of Quantities forming part of the Contract defined in GCC Clause 59.

(e) **Compensation Events** are those defined in GCC Clause 67.

(f) **Competent Authority** means the authority that gives decision on specific issues as per delegation of administrative and/or financial powers.

(g) **Completion Certificate** means the Certificate issued by the Project Manager as evidence that the Contractor has executed the Works and physical services in all respects as per design, drawing, specifications and Conditions of Contract.

(h) **Completion Date** is the actual date of completion of the Works and physical services certified by the Project Manager, in accordance with GCC Clause 78.

(i) **Contract Agreement** means the Agreement entered into between the Procuring Entity and the Contractor, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein to execute, complete, and maintain the Works.

(j) **Contract Documents** means the documents listed in GCC Clause 6, including any amendments thereto.

(k) **Contractor** means the Person under contract with the Procuring Entity for the execution of Works under the Rules and the Act as stated in the **PCC**.

(l) **Contract Price** means the price payable to the Contractor as specified in the Contract Agreement, subject to such additions and adjustments thereto or deductions therefrom, for the execution, completion and maintenance of the Works in accordance with the provisions of the Contract.

(m) **Contractor's Tender** is the completed Tender Document including the priced BOQ and the Schedules submitted by the Contractor to the Procuring Entity.

(n) **Cost** means all expenditures reasonably incurred or to be

incurred by the Contractor, whether on or off the Site, including overhead, taxes, duties, fees and such other similar levies including corresponding incidental charges and premiums for banking and insurances, as applicable.

(o) **Day** means calendar day unless otherwise specified as working days.

(p) **Dayworks** means work carried out following the instructions of the Procuring Entity or the authorised Project Manager and is paid for on the basis of time spent by the Contractor's workers and equipment at the rates specified in the Schedules, in addition to payments for associated Materials and Plant.

(q) **Defect** is any part of the Works not completed in accordance with the Contract.

(r) **Defects Correction Certificate** is the certificate issued by the Project Manager upon correction of defects by the Contractor.

(s) **Drawings** include calculations and other information provided in Section 9 or as approved by the Project Manager for the execution and completion of the Contract.

(t) **Equipment** is the Contractor's apparatus, machinery, vehicles and other things required for the execution and completion of the Works and remedying any defects excluding Temporary Works and the Procuring Entity's Equipment (if any), Plant, Materials and any other things to form or forming part of the Permanent Works.

(u) **Force Majeure** means an event or situation beyond the control of the Contractor that is not foreseeable, is unavoidable, and its origins not due to negligence or lack of care on the part of the Contractor; such events may include, but not be limited to, acts of the Government in its sovereign capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions, and freight embargoes or more as included in GCC Clause 83;

(v) **GCC** means the General Conditions of Contract.

(w) **Government** means the Government of the People's Republic of Bangladesh.

(x) **Goods** mean the Contractor's Equipment, Materials, Plant and Temporary Works, or any of them as appropriate.

(y) **"Head of the Procuring Entity"** means the Secretary of a Ministry or a Division, the Head of a Government Department or Directorate; or the Chief Executive, or as applicable, Divisional Commissioner, Deputy Commissioner, Zilla Judge; or by whatever designation called, of a local Government agency, an autonomous or semi-autonomous body or a corporation, or a corporate body established under the Companies Act;

(z) **Intended Completion Date** is the date calculated from the Commencement Date as specified in the **PCC**, on which it is intended that the Contractor shall complete the Works and physical services as specified in the Contract and may be revised only by the Project Manager by issuing an extension of time or an acceleration order.

(aa) **Materials** means things of all kinds other than Plant intended

to form or forming part of the Permanent Works, including the supply-only materials, if any, to be supplied by the Contractor under the Contract.

(bb) **Month** means calendar month.

(cc) **Original Contract Price** is the Contract Price stated in the Procuring Entity's Notification of Award (**Form PW3-7**) and further clearly determined in the **PCC**.

(dd) **Permanent works** means the permanent works to be executed by the Contractor under the Contract.

(ee) **PCC** means the Particular Conditions of Contract.

(ff) **Plant** means the apparatus, machinery and other equipment intended to form or forming part of the Permanent Works, including vehicles purchased for the Procuring Entity and relating to the construction of the Works and physical services.

(gg) **Procuring Entity** means a Procuring Entity having administrative and financial powers to undertake procurement of Works and physical services using public funds and is as named in the **PCC** who employs the Contractor to carry out the Works.

(hh) **Project Manager** is the person named in the **PCC** or any other competent person appointed by the Procuring Entity and notified to the Contractor who is responsible for supervising the execution and completion of the Works and physical services and administering the Contract.

(ii) **Provisional Sums means** amounts of money specified by the Procuring Entity in the BOQ which shall be used, at its discretion for meeting other essential expenditures under the Contract pursuant to GCC Sub Clause 75.

(jj) **Retention Money** means the accumulated retention moneys which the Procuring Entity retains under GCC Clause 70.

(kk) **Schedules** means the document(s) entitled schedules, completed by the Contractor and submitted with the Tender Submission Letter, as included in the Contract. Such document may include the data, lists and schedules of rates and/or prices.

(ll) **Site** means the places where the Permanent Works are to be executed including storage and working areas and to which Plant and Materials are to be delivered, and any other places as may be specified in the **PCC** as forming part of the Site.

(mm) **Site Investigation Reports** are those that were included in the Tender Document and are factual and interpretative reports about the surface and subsurface conditions at the Site.

(nn) **Specification** means the Specification of the Works included in the Contract and any modifications or additions to the specifications made or approved by the Project Manager in accordance with the Contract.

(oo) **Start Date** is the date defined in the **PCC** and it is the last date when the Contractor shall commence execution of the Works under the Contract.

(pp) **Subcontractor** means a person or corporate body, who has a

contract with the Contractor to carry out a part of the work in the Contract, which includes work on the Site.

(qq) **Temporary Works** means all temporary works of every kind other than Contractor's Equipment required on the Site for the execution and completion of the Permanent Works and remedying of any defects.

(rr) **Variation** means any change to the Works directly procured from the original Contractor to cover increases or decreases in quantities, including the introduction of new work items (non-Tendered items) that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.

(ss) **Works** means all works associated with the construction, reconstruction, site preparation, demolition, repair, maintenance or renovation of railways, roads, highways, or a building, an infrastructure or structure or an installation or any construction work relating to excavation, installation of equipment and materials, decoration, as well as physical services ancillary to works as detailed in the **PCC**, if the value of those services does not exceed that of the Works themselves.

(tt) **Writing** means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.

2. Interpretation

2.1 In interpreting the GCC, singular also means plural, male also means female or neuter, and the other way around. Headings in the GCC shall not be deemed part thereof or be taken into consideration in the interpretation or construction of the Contract. Words have their normal meaning under the language of the Contract unless specifically defined.

2.2 Entire Agreement

The Contract constitutes the entire agreement between the Procuring Entity and the Contractor and supersedes all communications, negotiations and agreements (whether written or verbal) of parties with respect thereto made prior to the date of Contract Agreement; except those stated under GCC Sub Clause 6.1(j).

2.3 Non waiver

(a) Subject to GCC Sub Clause 2.3(b), no relaxation, forbearance, delay, or indulgence by either party in enforcing any of the terms and conditions of the Contract or the granting of time by either party to the other shall prejudice, affect, or restrict the rights of that party under the Contract, neither shall any waiver by either party of any breach of Contract operate as waiver of any subsequent or continuing breach of Contract.

(b) Any waiver of a party's rights, powers, or remedies under the Contract must be in writing, dated, and signed by an authorized representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

2.4 Severability

If any provision or condition of the Contract is prohibited or rendered invalid or unenforceable, such prohibition, invalidity or unenforceability shall not affect the validity or enforceability of any other provisions and conditions of the Contract.

2.5 Sectional completion

If sectional completion is specified in the **PCC**, references in the GCC to the Works, the Completion Date, and the Intended Completion Date apply to any section of the Works (other than references to the Completion Date and Intended Completion Date for the whole of the Works).

3. Communications & Notices

3.1 Communications between Parties (notice, request or consent required or permitted to be given or made by one party to the other) pursuant to the Contract shall be in writing to the addresses specified in the **PCC**.

3.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

3.3 A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.

4. Governing Law

4.1 The Contract shall be governed by and interpreted in accordance with the laws of the People's Republic of Bangladesh.

5. Governing Language

5.1 The Contract shall be written in English. All correspondences and documents relating to the Contract may be written in English or *Bangla*. Supporting documents and printed literature that are part of the Contract may be in another language, provided they are accompanied by an accurate translation of the relevant passages in English, in which case, for purposes of interpretation of the Contract, such translation shall govern.

5.2 The Contractor shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

6. Documents Forming the Contract and Priority of Documents

6.1 The following documents forming the Contract shall be interpreted in the following order of priority:

(a) the signed Contract Agreement (**Form PW3-9**);

(b) the Notification of Award (**PW3-8**);

(c) the completed Tender and the Appendix to the Tender;

(d) the Particular Conditions of Contract;

(e) the General Conditions of Contract;

(f) the Technical Specifications;

(g) the General Specifications;

(h) the Drawings;

(i) the priced BOQ and the Schedules; and

(j) any other document listed in the **PCC** forming part of the Contract.

7. Scope of Works

7.1 The Works to be executed, completed and maintained shall be as specified in the BOQ, the General and Particular Specifications and Drawings.

7.2 Unless otherwise stipulated in the Contract, the Works shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for completion of the Works as if such items were expressly mentioned in the Contract.

8. Assignment

8.1 Neither the Contractor nor the Procuring Entity shall assign, in whole or in part, its obligations under the Contract.

9. Eligibility

9.1 The Contractor and its Subcontractor(s) shall have the nationality of a country other than that specified in the **PCC**.

9.2 All materials, equipment, plant, and supplies used by the Contractor in both permanent and temporary works and services supplied under the Contract shall have their origin in the countries except any specified in the **PCC**.

10. Gratuities / Agency fees

10.1 No fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the Tender or in the Contract, have been given or received in connection with the procurement process or in the Contract execution.

11. Confidential Details

11.1 The Contractor's and the Procuring Entity's personnel shall disclose all such confidential and other information as may be reasonably required in order to verify the Contractor's compliance with the Contract and allow its proper implementation.

11.2 Each of them shall treat the details of the Contract as private and confidential, except to the extent necessary to carry out their respective obligations under the Contract or to comply with applicable Laws. Each of them shall not publish or disclose any particulars of the Works prepared by the other Party without the previous agreement of the other Party. However, the Contractor shall be permitted to disclose any publicly available information, or information otherwise required to establish his qualifications to compete for other projects.

12. Joint Venture (JV)

12.1 If the Contractor is a JV ,

(a) each partner of the JV shall be jointly and severally liable for all liabilities and ethical or legal obligations to the Procuring Entity for performance of the Contract;

(b) the JV partners shall nominate the **Leading Partner** as **REPRESENTATIVE** being entrusted with the Contract administration and management at Site who shall have the authority to conduct all business including the receipt of payments for and on behalf of all partners of the JV;

(c) If there is a dispute that results in legal action being taken in court then action will be taken against all partners of the JV, if they are available and, if only one partner is available, then that partner alone shall answer on behalf of all partners and, if the complaint lodged is proven, the penalty shall be applicable on that partner alone as whatever penalty all the partners

would have received; provided that if the other partners of the JV subsequently become available before the legal action has been completed, the Procuring Entity shall have the right to take action against those other partners of that JV as well.

(d) the composition or constitution and legal status of the JV shall not be altered without the prior approval of the Procuring Entity;

(e) alteration of partners, **except the Leading partner**, shall only be allowed if any of them is found to be incompetent or has any serious difficulties which may impact the overall implementation of the Works, whereby the incoming partner shall require to posses qualifications higher than that of the outgoing partner;

(f) "if any of the partners of JV has been debarred from participating in any procurement activity due to corrupt, fraudulent, collusive or coercive practices and while in case, the Leading partner is found incompetent or has been debarred due to the same reasons stated herein the Contract shall be terminated pursuant to GCC Sub Clause 87.1(b)."

13. Possession of the Site

13.1 The Procuring Entity shall give possession of the Site or part(s) of the Site, to the Contractor on the date(s) stated in the **PCC**. If possession of a part of the Site is not given by the date stated in the **PCC**, the Procuring Entity will be deemed to have delayed the start of the relevant activities, and this will be a Compensation Event as stated under GCC Sub Clause 67.1(a).

14. Access to the Site

14.1 The Contractor shall allow the Project Manager and any person authorised by the Project Manager access to the Site and to any place where work in connection with the Contract is being carried out or is intended to be carried out.

15. Procuring Entity's Responsibilities

15.1 The Procuring Entity shall pay the Contractor, in consideration of the satisfactory progress of execution and completion of the Works and physical services, and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract Agreement.

15.2 The Procuring Entity shall make its best effort to guide and assist the Contractor in obtaining, if required, any permit, licence, and approvals from local public authorities for the purpose of execution of the Works and physical services under the Contract.

16. Approval of the Contractor's Temporary Works

16.1 The Contractor shall submit Specifications and Drawings showing the proposed Temporary Works to the Project Manager, who is to approve them, if they comply with the Specifications and Drawings.

16.2 The Contractor shall be responsible for design of Temporary Works.

16.3 The Project Manager's approval shall not alter the Contractor's responsibility for design of the Temporary Works.

16.4 The Contractor shall obtain approval of third parties to the design of the Temporary Works, where required.

17. Contractor's Responsibilities

17.1 The Contractor shall execute and complete the Works and remedy any defects therein in conformity in all respects with the provisions of the Contract Agreement.

18. Taxes and Duties

18.1 The Contractor shall be entirely responsible for all applicable taxes, custom duties, VAT, and other levies imposed or incurred inside and outside Bangladesh.

19. Contractor's Personnel

19.1 The Contractor shall employ the key personnel named in the Schedule of Key Personnel, as referred to in the **PCC**, to carry out the functions stated in the Schedule or other personnel approved by the Project Manager.

19.2 The Project Manager will approve any proposed replacement of key personnel only if their relevant qualifications and abilities are equal to or higher than those of the personnel named in the Schedule.

19.3 If the Project Manager asks the Contractor to remove a particular person who is a member of the Contractor's staff or work force from the Site, he or she shall state the reasons, and the Contractor shall ensure that the person leaves the Site within three (3) days and has no further connection with the work in the Contract.

20. Subcontracting

20.1 Subcontracting the whole of the Works by the Contractor shall not be permissible. The Contractor shall be responsible for the acts or defaults of any Subcontractor, his or her agents or employees, as if they were the acts or defaults of the Contractor.

20.2 The prior consent, in writing, of the Project Manager shall however be obtained for other proposed Subcontractor(s).

20.3 Nominated Subcontractor named in the Contract shall be entitled to execute the specific components of the Works stated in the **PCC**.

20.4 Subcontractors shall comply with the provisions of GCC Clause 38.

21. Other Contractors

21.1 The Contractor shall cooperate and share the Site with other Contractors, public authorities, utilities, the Project Manager and the Procuring Entity between the dates given in the Schedule of other Contractors. The Contractor shall also provide facilities and services for them as described in the Schedule. The Procuring Entity may modify the Schedule of other Contractors, and shall notify the Contractor of any such modification.

22. Project Manager's Decisions

22.1 Except where otherwise specifically stated in the **PCC**, the Project Manager will decide Contractual matters between the Procuring Entity and the Contractor in its role as representative of the Procuring Entity.

23. Delegation

23.1 The Project Manager may delegate any of his duties and responsibilities to his representative except to the Adjudicator, after notifying the Contractor, and may cancel any delegation, without retroactivity, after notifying the Contractor.

23.2 Any communications to the Contractor in accordance with such delegation shall have the same effect as if it was given by the Project Manager.

24. Instructions

24.1 The Contractor shall carry out all instructions of the Project Manager that comply with the applicable law.

25. Queries About the Contract Conditions

25.1 The Project Manager, on behalf of the Procuring Entity, will clarify queries on the Conditions of Contract.

26. Safety, Security and Protection of the Environment

26.1 The Contractor shall throughout the execution and completion of the Works and the remedying of any defects therein:

(a) take all reasonable steps to safeguard the health and safety of all workers working on the Site and other persons entitled to be on it, and to keep the Site in an orderly state;

(b) provide and maintain at the Contractor's own cost all lights, guards, fencing, warning signs and watching for the protection of the Works or for the safety on-site; and

(c) take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of the Contractors methods of operation.

27. Working Hours

27.1 The Contractor shall not perform any work on the Site on the weekly holidays, or during the night or outside the normal working hours, or on any religious or public holiday, without the prior written approval of the Project Manager.

28. Welfare of Labourers

28.1 The Contractor shall comply with all the relevant labour Laws applicable to the Contractor's personnel relating to their employment, health, safety, welfare, immigration and shall allow them all their legal rights.

28.2 The Contractor, in particular, shall provide proper accommodation to his or her labourers and arrange proper water supply, conservancy and sanitation arrangements at the site for all necessary hygienic requirements and for the prevention of epidemics in accordance with relevant regulations, rules and orders of the government.

28.3 The Contractor, further in particular, shall pay reasonable wages to his or her labourers, and pay them in time. In the event of delay in payment the Procuring Entity may effect payments to the labourers and recover the cost from the Contractor.

29. Child Labour

29.1 The Contractor shall not employ any child to perform any work that is economically exploitative, or is likely to be hazardous to, or to interfere with, the child's education, or to be harmful to the child's health or physical, mental, spiritual, moral, or social development in compliance with the applicable labor laws and other relevant treaties ratified by the government.

30. Discoveries

30.1 Anything of historical or other interest or of significant value unexpectedly discovered on the Site shall be the property of the Procuring Entity. The Contractor shall notify the Project Manager of such discoveries and carry out the Project Manager's instructions for dealing with them.

31. Procuring Entity's and Contractor's Risks

31.1 The Procuring Entity carries the risks that the Contract states are Procuring Entity's risks and the Contractor carries the risks that the Contract states are Contractor's risks.

32. Procuring Entity's Risks

32.1 From the Start Date until the Defects Correction Certificate has been issued, the following are Procuring Entity's risks:

(a) the risk of personal injury, death, or loss of or damage to property (excluding the Works, Plant, Materials, and Equipment), which are due to

i. use or occupation of the Site by the Works or for the purpose of the Works, which is the unavoidable result of the Works or

ii. negligence, breach of statutory duty, or interference with any legal right by the Procuring Entity or by any person employed by or Contracted to him except the Contractor.

(b) the risk of damage to the Works, Plant, Materials, and Equipment to the extent that it is due to a fault of the Procuring Entity or in the Procuring Entity's design, or due to war or radioactive contamination directly affecting the country where the Works are to be executed.

32.2 From the Completion Date until the Defects Correction Certificate has been issued, the risk of loss of or damage to the Works, Plant, and Materials is Procuring Entity's risk, except loss or damage due to:

(a) a Defect which existed on the Completion Date;

(b) an event occurring before the Completion Date, which was not itself Procuring Entity's risk; or

(c) the activities of the Contractor on the Site after the Completion Date.

33. Contractor's Risks

33.1 From the Start Date until the Defects Correction Certificate has been issued the risks of personal injury, death, and loss of or damage to property including without limitation, the Works, Plant, Materials, and Equipment, which are not Procuring Entity's risks are Contractor's risks.

34. Copyright

34.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Procuring Entity by the Contractor herein shall remain vested in the Contractor, or, if they are furnished to the Procuring Entity directly or through the Contractor by any third party, including Suppliers of materials, the copyright in such materials shall remain vested in such third party.

34.2 The Contractor shall not, except for the purposes of performing the obligations under the Contract, without the written permission of the Procuring Entity disclose or make use of any specification, plan, design and drawing, pattern, sample or information furnished by or on behalf of the Procuring Entity.

35. Limitation of Liability

35.1 Except in cases of criminal negligence or wilful misconduct:

(a) the Contractor shall not be liable to the Procuring Entity, whether in Contract, tort, or otherwise, for any indirect or consequential loss or damage, loss of use, loss of production, or loss of profits or interest costs, provided that this exclusion shall not apply to any obligation of the Contractor to pay liquidated damages to the Procuring Entity; and

(b) the aggregate liability of the Contractor to the Procuring Entity, whether under the Contract, in tort or otherwise, shall not exceed the total Contract Price, provided that this limitation shall not apply to the cost of repairing or replacing defective Works, or to any obligation of the Contractor to indemnify the Procuring Entity with respect to patent infringement.

36. Insurance

a. The Contractor shall provide, in the joint names of the Procuring Entity and the Contractor, insurance cover from the Start Date to the end of the Defects Liability Period, in the amounts specified in the **PCC** for the following events which are due to the Contractor's risks:

a. loss of or damage to the Works, Plant, and Materials;

b. loss of or damage to Equipment;

c. loss of or damage to property (except the Works, Plant, Materials, and Equipment) in connection with the Contract; and

d. personal injury or death.

36.2 The Contractor shall deliver policies and certificates of insurance to the Project Manager, for the Project Manager's approval, before the Start Date. All such insurances shall provide for compensation to be payable in the types and proportions required to rectify the loss or damage incurred.

36.3 If the Contractor does not provide any of the policies and certificates required, the Procuring Entity may effect the insurance which the Contractor should have provided and recover the premiums the Procuring Entity has paid from payments otherwise due to the Contractor or, if no payment is due, the payment of the premiums shall be a debt due.

36.4 Alterations to the terms of insurance shall not be made without the approval of the Project Manager.

36.5 Both parties shall comply with conditions of the insurance policies.

37. Management and Progress Meetings

a. Either the Project Manager or the Contractor may require the other to attend a management and progress meeting. The business of such meeting shall be to review the progress and plans for remaining work and to deal with matters raised in accordance with the early warning procedure.

b. The Project Manager shall record the business of the meetings and provide copies of the record to those attending the meeting and to the Procuring Entity. The responsibility of the parties for actions to be taken shall be decided by the Project Manager either at the management and progress meeting or after the meeting, and stated in writing to all concerned.

38. Corrupt, Fraudulent, Collusive, Coercive(and Obstructive in case of Development Partner) Practices

a. The Government and the Development Partner requires that the Procuring Entity as well as the Contractor (including sub-contractors, agents, personnel, consultants and service providers), shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of contracts under public funds.

b. The Contractor (including sub-contractors, agents, personnel, consultants and service providers) shall permit the Government and/or the Development Partner to inspect the Contractor's accounts and records and other documents relating to the submission of Tender and contract performance, and to have them audited by auditors appointed by the Government and/or the Development Partner, if so required.

38.2 For the purposes of GCC Sub Clause 38.4, the terms set forth below as follows:

(a) "corrupt practice" means offering, giving or promising to give, receiving, or soliciting either directly or indirectly, to any officer or employee of a Procuring Entity or other public or private authority or individual, a gratuity in any form; employment or any other thing or service of value as an inducement with respect to an act or decision or method followed by a Procuring Entity in connection with a Procurement proceeding or Contract execution;

(b) "fraudulent practice" means the misrepresentation or omission of facts in order to influence a decision to be taken in a Procurement proceeding or Contract execution;

(c) “collusive practice” means a scheme or arrangement between two (2) or more Persons, with or without the knowledge of the Procuring Entity, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non-competitive levels, thereby denying a Procuring Entity the benefits of competitive price arising from genuine and open competition;

(d) “coercive practice” means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in the Procurement proceeding or the execution of the Contract, and this will include creating obstructions in the normal submission process used for Tenders; or

(e) “Obstructive practice” (applicable in case of Development Partner) means deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede an investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and /or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation.

38.3 Should any corrupt, fraudulent, collusive, coercive practice (or obstructive practice in case of Development Partner) of any kind, in competing for or in executing the Contract, is determined by the Procuring Entity, then the Procuring Entity may, upon giving 28 days’ notice to the Contractor, terminate the Contractor’s employment under the Contract and the provisions of Clause 87 shall apply as if such expulsion had been made under sub-clause 87.1 (Termination for Default).

38.4 If corrupt, fraudulent, collusive or coercive (or obstructive in case of Development Partners) practices of any kind determined by the Procuring Entity or the Development Partner against the Contractor alleged to have carried out such practices, the Procuring Entity and/or the Development Partner shall:

(a) exclude the Contractor from further participation in the particular Procurement proceeding; or

(b) declare, at its discretion, the Contractor to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time; or

(c) PE can debar the Contractor for a period of 1 (one) to 2 (two) years for the procurement of all procuring entities due to fundamental breach of contract.

38.5 The Contractor shall be aware of the provisions on corruption, fraudulence, collusion and coercion in Section 64 of the Public Procurement Act, 2006 and Rule 127 of the Public Procurement Rules, 2008 and in case of Development Partner financed contract, the Procurement Guidelines of the Development Partner.

B. Time Control

39. Commencement of Works

a. Except otherwise specified in the **PCC** , the Commencement Date shall be the date at which the following precedent conditions have all been fulfilled and the Project Manager's instruction recording the agreement of both Parties on such fulfilment and instructing to commence the Works is received by the Contractor:

(a) signing of the Contract Agreement by both parties upon approval of the by relevant authorities;

(b) possession of the Site given to the Contractor as required for the commencement of the Works; and

(c) receipt by the Contractor of the Advance Payment under GCC Clause 73 provided that the corresponding Bank Guarantee has been delivered by the Contractor, if any.

39.2 The Contractor shall commence the execution of the Works as soon as is reasonably practicable by the **Start Date** as specified in the GCC Sub Clause **1.1(oo)** after the Commencement Date, and shall then proceed with the Works with due expedition and without delay.

40. Completion of Works

a. The Contractor shall carry out the Works in accordance with the Programme of Works submitted by the Contractor and as updated with the approval of the Project Manager as stated under GCC Clause 41 to complete them in all respects by the Intended Completion Date, as specified in the **PCC**.

41. Programme of Works

a. Within the time stated in the **PCC**, the Contractor shall submit to the Project Manager for approval a Programme of Works showing the general methods, arrangements, order, and timing for all the activities in the Works. The programme may be in the form of an Implementation Schedule prepared in any software or other form acceptable to the Project Manager.

41.2 The Contractor shall submit to the Project Manager for approval of an updated Programme at intervals no longer than the period stated in the **PCC**. An update of the Programme shall be a Programme showing the actual progress achieved on each activity and the effect of the progress achieved on the timing of the remaining work, including any changes to the sequence of the activities.

41.3 If the Contractor does not submit an updated Programme of Works at the intervals as stated under GCC Sub Clause 41.2, the Project Manager may withhold an amount as stated in the **PCC** from the next payment certificate and continue to withhold this amount until the next due payment after the date on which the overdue Programme of Works has been submitted.

41.4 The Project Manager's approval of the Programme of Works shall not alter the Contractor's obligations. The Contractor may revise the Programme and submit it to the Project Manager again at any time for approval. A revised Programme shall show the effect of Variations and Compensation Events.

42. Pro Rata

42.1 The Contractor shall maintain Pro Rata progress of the Works.

Progress

Progress to be achieved shall be pursuant to GCC Clause 41 and shall be determined in terms of the value of the works done.

43. Early Warning

43.1 If at any time during performance of the Contract, the Contractor or its Subcontractors should encounter events, circumstances, conditions that may adversely affect the quality of the work, increase the original Contract Price or delay the execution of the Works, the Contractor shall promptly notify the Project Manager in writing of the delay, its likely duration, and its cause. As soon as practicable after receipt of the Contractor's notice, the Project Manager shall evaluate the situation, and the Contractor shall cooperate with the Project Manager in making and considering proposals for how the effect of such an event or circumstance can be avoided or reduced.

43.2 The Project Manager may require the Contractor to provide an estimate of the expected effect of the future event or circumstance on the original Contract Price and Completion Date. The Contractor shall provide the estimate and the Project Manager shall further proceed as soon as reasonably possible.

44. Extension of Intended Completion Date

44.1 The Contractor shall be entitled to an extension of the Intended Completion Date, if and to the extent that completion of the Works or any part thereof is or will be delayed by Compensation Events or a Variation or Extra Work Order.

44.2 If the Contractor considers itself to be entitled to an extension of the execution period as stated under GCC Sub Clause 44.1, the Contractor shall give notice, not later than twenty-eight (28) days after the Contractor became aware or should have become aware of the event or circumstance, to the Project Manager.

44.3 The Project Manager shall decide whether and by how much to extend the Intended Completion Date within twenty-one (21) days of the Contractor asking the Project Manager for a decision upon the effect of a Compensation Event or Variation and submitting full supporting information. If the Contractor has failed to give early warning of a delay or has failed to cooperate in dealing with a delay, the delay by this failure shall not be considered in assessing the extension of Intended Completion Date.

44.4 The Project Manager may extend the Intended Completion Date by twenty (20) percent of the original Contract time as stated under GCC Sub Clause 44.1, if a Compensation Event occurs or Variation Order or extra work Order issued. which does not make it possible to complete the execution of works without incurring additional cost.

44.5 In the case an extension of the Intended Completion Date required under GCC Sub Clause 44.3 is or will be more than twenty (20) percent of the original Contract time, approval of the Head of the Procuring Entity or an officer authorized by him or her for the same shall be required to be obtained.

44.6 Except in case of Force Majeure, as provided under GCC Clause 83, a delay by the Contractor in the execution Works shall render the Contractor liable to the imposition of Liquidated Damages pursuant to GCC Clause 71, unless an extension of the Intended

Completion Date is agreed upon, pursuant to GCC Clause 44.3.

45. Delays Caused by Authorities

45.1 If the following conditions apply, namely:

(a) the Contractor has diligently followed the procedures laid down by the relevant legally constituted public authorities,

(b) these public authorities delay or disrupt the Contractor's work, and

(c) the delay or disruption was unforeseeable;

then this delay or disruption will be considered as a cause of delay under GCC Sub Clause 44.1.

45.2 The Project Manager shall notify the Contractor accordingly keeping the Procuring Entity posted.

46. Acceleration

46.1 When the Procuring Entity wants the Contractor to finish the Works before the Intended Completion Date, the Project Manager will obtain priced proposals for achieving the necessary acceleration from the Contractor. If the Procuring Entity accepts these proposals, the Intended Completion Date will be advanced accordingly and confirmed by both the Procuring Entity and the Contractor.

46.2 If the Procuring Entity accepts the Contractor's priced proposals for acceleration, they will be incorporated in the Contract Price and treated as a **Variation** under GCC Clause 61.

47. Delays Ordered by the Project Manager

47.1 The Project Manager may instruct the Contractor to delay the start or progress of any activity within the Works.

48. Suspension of Work

48.1 The Project Manager may at any time instruct the Contractor to suspend progress of part or all of the Works. During such suspension, the Contractor shall protect, store and secure such part or the Works against any deterioration, loss or damage.

49. Consequences of Suspension

49.1 If the Contractor suffers delay and/or incurs Cost from complying with the Project Manager's instructions under GCC Clause 48 and/or from resuming the work, the Contractor shall give notice to the Project Manager and shall be entitled subject to GCC Clause 91 to:

(a) an extension of time for any such delay, if Completion is or will be delayed and

(b) payment of any such cost, which shall be included in the Contract Price.

49.2 After receiving this notice, the Project Manager shall proceed to agree or determine these matters.

49.3 The Contractor shall not be entitled to any extension of time for, or to any payment of the cost incurred in, making good the consequences of the Contractor's faulty design, workmanship or materials, or of the Contractor's failure to protect, store or secure in accordance with GCC Clause 48.

C. Quality Control

50. Execution of Works

50.1 The Contractor shall construct, install and carry out the Works and physical services in accordance with the Specifications and Drawings as scheduled in GCC Clause6.

51. Examination of Works before covering up

51.1 All works under the Contract shall at all times be open to examination, inspection, measurements, testing and supervision of the Project Manager, and the Contractor shall ensure presence of its representatives at such actions provided proper advance notice is given by the Project Manager.

51.2 No part of the Works shall be covered up or put out of sight without the approval of the Project Manager. The Contractor shall give notice in writing to the Project Manager whenever any such part of the Works is ready for examination and, the Project Manager shall attend to such examination without unreasonable delay.

52. Identifying Defects

52.1 The Project Manager shall check the works executed by the Contractor and notify the Contractor of any Defects found. Such checking shall not relieve the Contractor from his or her obligations. The Project Manager may also instruct the Contractor to search for a Defect and to uncover and test any work that the Project Manager considers may have a Defect.

53. Testing

53.1 If the Project Manager instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples. If there is no Defect, the test shall be a Compensation Event pursuant to GCC Sub Clause 67.

54. Rejection of Works

54.1 If, as a result of an examination, inspection, measurement or testing, of Works it is found to be defective or otherwise not in accordance with the Contract, the Project Manager may reject the Works by giving notice to the Contractor, with reasons. The Contractor shall then promptly make good the defect and ensure that the rejected Works subsequently complies with the Contract.

55. Remedial Work

55.1 Notwithstanding any test or certification, the Project Manager may instruct the Contractor to:

(a) remove from the Site and replace any Plant or Materials which is not in accordance with the Contract,

(b) remove and re-execute any other work which is not in accordance with the Contract, and

(c) execute any work which is urgently required for the safety of the Works, whether because of an accident, unforeseeable event or otherwise.

55.2 The Contractor shall comply with the instruction issued under GCC Sub Clause 55.1 within a reasonable time, which shall be specified in the instruction, or immediately if urgency is specified under GCC Sub Clause 55.1(c).

55.3 If the Contractor fails to comply with the instruction issued under GCC Sub Clause 55.2, the Procuring Entity shall be entitled to employ and pay other persons to carry out the work. Except to the extent that the Contractor would have been entitled to payment for the work, the Contractor shall be liable to pay all such costs arising from this failure.

56. Correction of Defects

56.1 The Project Manager shall give notice to the Contractor, with a copy to the Procuring Entity and others concerned, of any Defects before the end of the Defects Liability Period, which begins at Completion Date, and is defined in the **PCC**. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

56.2 Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the Project Manager's notice.

57. Uncorrected Defects

57.1 If the Contractor has not corrected a Defect within the time specified in the Project Manager's notice, the Project Manager shall assess the cost of having the Defect corrected by it, and the Contractor shall remain liable to pay the expenditures incurred on account of correction of such Defect.

D. Cost Control

58. Contract Price

58.1 The Contract Price shall be as specified in the Contract Agreement subject to any additions and adjustments thereto, or deductions therefrom, as may be made pursuant to Contract.

59. Bill of Quantities

59.1 The Bill of Quantities (BOQ) shall contain priced items for the construction, installation, testing, and commissioning work to be done by the Contractor.

59.2 The BOQ is used to calculate the Contract Price. The Contractor is paid for the quantity of the work done at the rate in the BOQ for each item.

59.3 Items of works quantified in the BOQ for which no rates have been quoted shall be deemed covered by the amounts at rates of other items in the Contract and, shall under no circumstances be paid for, by the Procuring Entity.

60. Changes in the Quantities and Unit Rate

60.1 If the final quantity of the work done for any particular item in the BOQ increases by more than twenty-five (25) percent and, such increase in quantity of that particular item alone concurrently causes the original Contract Price to exceed by more than one (1) percent, the Project Manager shall adjust the unit rate of the item to allow for the change.

60.2 If requested by the Project Manager, the Contractor shall provide the Project Manager with a detailed cost breakdown of any rate in the BOQ.

61. Issue Variation or Extra Work

61.1 The Project Manager may issue a **Variation Order** to the Contractor to cover increase or decrease in quantities, including

Order

the introduction of new work items (non-Tendered items) that are either due to change of plans, design or alignment to suit actual field conditions, within the general scope and physical boundaries of the contract.

61.2 The Project Manager may issue an **Extra Work Order** to cover the introduction of such new works necessary for the completion, improvement or protection of the original works which were not included in the original contract, on the grounds where there are subsurface or latent physical conditions at the site differing materially from those indicated in the contract, or where there are duly unknown physical conditions at the site of an unusual nature differing materially from those usually encountered and generally recognized as inherent in the work or character provided for in the Contract.

61.3 The Project Manager deems it necessary that a Variation or Extra Work Order should be issued, he or she shall prepare the proposed order, the necessary plans , his or her computations as to the quantities of the additional Works involved per item indicating the specific locations where such Works are needed, the date of his or her inspections and investigations thereon, and the log book thereof, and a detailed estimate of the unit cost of such items of work as stated under GCC Clause 62, together with his or her justifications for the need of such Variation or Extra Work Order, and shall submit the same to the Approving Authority. Any Amend to the contract that happens within the approved BOQ items and doesn't change the contract price shall be approved by the HOPE or delegated officer.

61.4 The Head of the Procuring Entity may, in exceptions to the GCC Sub Clause 61.3 and subject to the availability of funds, in the event of extreme emergency and when time is of the essence, authorize the immediate start of work under any Variation or Extra Work Order; provided that the cumulative increase in the value of Works not yet duly approved exceeded ten (10) percent of the adjusted original Contract Price.

61.5 Increase or decrease in the quantities of any item of work included in the BOQ for the reasons other than those stated under GCC Sub Clause 61.1 and61.2, in particular for field level actual measurements under this contract (admeasurements), not necessarily however, shall constitute a **Variation**.

61.6 All Variations and Extra work orders under the Contract shall be included in the updated Programme of Works produced by the Contractor.

62. Costing of Variations or Extra Orders

62.1 The Contractor shall provide the Project Manager with a quotation for carrying out the Variation when requested to do so by the Project Manager. The Project Manager shall assess the quotation, which shall be given within seven (7) working days of the request or within any longer period stated by the Project Manager and before the Variation is ordered.

62.2 If the item of work in the Variation corresponds to an item of work in the BOQ and if, in the opinion of the Project Manager, the increased quantity and cost of the works of that particular item does not concurrently cause to exceed the limit stated in GCC

Sub Clause 60.1, the same unit rate in the BOQ shall be used to calculate the cost of the Variation. If the item of work in the Variation does not correspond to an item in the BOQ, the unit rates for the new items of works shall be determined based on (i) the direct unit costs used in the original Contract for other items (e.g. unit cost of cement, steel bar, labour rate, equipment rental, etc) as indicated in the Contractor's price breakdown of the cost estimate, if available or (ii) fixed prices acceptable to both, the Procuring Entity and the Contractor, based on market prices. The direct cost of the new work items based on (i) or (ii) stated herein shall then be combined with the mark-up factor (i.e. profit, overhead and VAT) used by the Contractor in its Tender to determine the unit rate of the new items of work.

62.3 If the Contractor's quotation is found to be unreasonable, the Project Manager may order the Variation and make a change to the Contract Price, which shall be based on the Project Manager's own forecast of the effects of the Variation on the Contractor's costs.

62.4 The Contractor shall not be entitled to additional payment for costs that could have been avoided by giving early warning under GCC Sub Clause 43.1.

62.5 The time for processing of a Variation and an Extra Work Order from its preparation to approval shall not exceed thirty (30) working days.

63. Cash Flow Forecasts

63.1 When the Programme of Works is updated under GCC Sub Clause 41.2, the Contractor shall provide the Project Manager with an updated cash flow forecast.

64. Payment Certificates

64.1 The basis for payment certificates shall be BOQ used to determine the Contract Price.

64.2 The Contractor shall submit to the Project Manager monthly statements of the estimated value of the works executed less the cumulative amount certified previously.

64.3 The Project Manager shall check the Contractor's monthly statement and certify the amount to be paid to the Contractor.

64.4 The value of work executed shall be determined by the Project Manager.

64.5 The value of work executed may also include the valuation of Variations or Extra Work Orders, Certified Dayworks and Compensation Events.

64.6 The Project Manager may exclude any item certified in a previous certificate or reduce the proportion of any item previously certified in any certificate in the light of later information.

65. Payments to the Contractor

65.1 Payments shall be adjusted for deductions for advance payments and retention. The Procuring Entity shall pay the Contractor the amounts certified by the Project Manager within twenty-eight (28) days of the date of each certificate after due adjustments for deductions for advance payments, retention and any other additions or deductions which may have become due under the Contract or otherwise, including those under GCC Clause 91.

65.2 Payments for Works under Variation Orders or Extra Work Orders satisfactorily accomplished pursuant to GCC Sub Clause 61 may be made only after approval of the same by the Approving Authority or next higher, as appropriate.

65.3 Payments due to the Contractor in each certificate shall be made into the Bank Account, in any scheduled Bank of Bangladesh, of the legal title of the Contract specified in the **PCC**, nominated by the Contractor in the currency specified in the Contract.

66. Delayed Payment

66.1 If the Procuring Entity makes a late payment, the Contractor shall be paid interest on the late payment in the next payment at the rate as specified in the **PCC**. Interest shall be calculated from the date by which the payment should have been made up to the date when the late payment is made.

66.2 If an amount certified is increased in a subsequent certificate as a result of an award by the Adjudicator or an Arbitrator, the Contractor shall be paid interest upon the delayed payment as set out in this clause. Interest shall be calculated from the date upon which the increased amount would have been certified in the absence of dispute.

67. Compensation Events

67.1 The following shall be Compensation Events:

(a) The Procuring Entity does not give access to or possession of the Site or part of the Site by the Site Possession Date stated in the GCC Sub Clause 13.1;

(b) The Procuring Entity modifies the Schedule of other Contractors in a way that affects the works of the Contractor under the Contract;

(c) The Project Manager orders a delay or does not issue Drawings, Specifications, or instructions required for execution of the Works on time;

(d) The Project Manager instructs the Contractor to uncover or to carry out additional tests upon work, which is then found to have no Defects;

(e) The Project Manager unreasonably does not approve a subcontract to be let, if applicable;

(f) Ground conditions are substantially more adverse than could reasonably have been assumed before issuance of the Notification of Award from the information issued to Tenderers (including the Site Investigation Reports), from information available publicly and from a visual inspection of the Site; Other Contractors, public authorities, utilities, or the Procuring Entity do not work within the dates and other constraints stated in the Contract, and they cause delay or extra cost to the Contractor;

(g) The advance payment is delayed;

(h) The effects on the Contractor of any of the Procuring Entity's Risks;

(i) The Project Manager unreasonably delays issuing a Completion Certificate;

(j) A situation of Force Majeure has occurred, as defined in GCC Clause 83; and

(k) Other Compensation Events described in the Contract or determined by the Project Manager in the **PCC** shall apply.

67.2 If a Compensation Event would cause additional cost or would prevent the work being completed before the Intended Completion Date, the Contract Price shall be increased and/or the Intended Completion Date shall be extended. The Project Manager shall decide whether and by how much the Contract Price shall be increased and whether and by how much the Intended Completion Date shall be extended, only on justifiably acceptable grounds duly recorded.

67.3 As soon as the Contractor has provided information demonstrating the effect of each Compensation Event upon the Contractor's forecast cost, the Project Manager shall assess it, and the Contract Price shall be adjusted accordingly. If the Contractor's forecast is deemed unreasonable, the Project Manager shall adjust the Contract Price based on the Project Manager's own forecast. The Project Manager will assume that the Contractor will react competently and promptly to the event.

67.4 The Contractor shall not be entitled to compensation to the extent that the Procuring Entity's interests are adversely affected by the Contractor not having given early warning or not having cooperated with the Project Manager.

68. Adjustments for Changes in Legislation

68.1 Unless otherwise specified in the Contract, if between the date twenty-eight (28) days before the submission of Tenders for the Contract and the date of the last Completion Certificate, any law, regulation, ordinance, order or bylaw having the force of law is enacted, promulgated, abrogated, or changed in Bangladesh (which shall be deemed to include any change in interpretation or application by the competent authorities) that subsequently affects the Completion Date and/or the Contract Price, then such Completion Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Contractor has thereby been affected in the performance of any of its obligations under the Contract.

68.2 The Project Manager shall adjust the Contract Price on the basis of the change in the amount of taxes, duties, and other levies payable by the Contractor, provided such changes have not already been accounted for in the price adjustment as defined in GCC Clause 69 and/or reflected in the Contract Price.

69. Price Adjustment

69.1 Prices shall be adjusted for fluctuations in the cost of inputs only if provided for in the **PCC**. If so provided, the amounts as certified in each payment certificate, before deducting for Advance Payment, shall be adjusted by applying the respective price adjustment factor to the payment amount. The formulae indicated below applies:

P= A + B (Im/Io)

where:

P is the adjustment factor

A and **B** are Coefficients specified in the **PCC**, representing the nonadjustable and adjustable portions, respectively, of the Contract; and

Im is the Index during the month the work has been executed and

Io is the Index prevailing twenty-eight (28) days prior to the deadline for submission of Tender.

The Indexes to be used is as published by the Bangladesh Bureau of Statistics (BBS) on a monthly basis. In case not available, then other countries or authorities of the sources mentioned in **Appendix to the Tender** may be used.

70. Retention Money

70.1 The Procuring Entity may retain from each progressive payment due to the Contractor at the percentage specified in the **PCC** until completion of the whole of the Works under the Contract.

70.2 On completion of the whole of the Works, the first half of the total amount retained under GCC Sub Clause 70.1 shall be returned to the Contractor and the remaining second half after the Defects Liability Period has passed and the Project Manager has certified in the form of **Defects Corrections Certificate.**.

70.3 On completion of the whole of the Works, the Contractor may substitute an irrevocable unconditional Bank Guarantee from any scheduled Bank of Bangladesh, in the format as specified (**Form PW3-12**), without any alteration, acceptable to the Procuring Entity for the second half of the retention money as stated under GCC Sub Clause 70.2.

71. Liquidated Damages

71.1 Except as provided under GCC Sub Clause 83, if the Contractor fails to complete the Works and physical services within the Intended Completion Date or extended Intended Completion Date, the Procuring Entity shall, as Liquidated Damages, deduct from the Contract Price, a sum at the percent-rate per day of delay as specified in the **PCC**, of the contract value of the uncompleted works or part thereof completed after the Intended Completion Date or extended Intended Completion Date, as applicable. The total amount of Liquidated Damages or Delay Damages shall not exceed the amount specified in the **PCC**. The Procuring Entity may deduct Liquidated Damages from payments due to the Contractor. Payment of Liquidated damages shall not affect the Contractor's liabilities.

71.2 If the Intended Completion Date is extended after Liquidated Damages have been paid, the Project Manager shall correct any overpayment of liquidated damages by the Contractor by adjusting the next payment certificate.

72. Bonus

72.1 The Contractor shall be paid a Bonus calculated at the percent-rate per day **if stated in the PCC** for each day (less any days for which the Contractor is paid for acceleration) that the Completion of the whole of the Works is earlier than the Intended Completion Date. The Project Manager shall require certifying that the Works are complete, although they may not have fallen due to being complete as per approved updated Programme of Works.

73. Advance

73.1 The Procuring Entity shall make advance payment, if so

Payment

specified in the **PCC**, to the Contractor in the amounts and by the dates specified in the **PCC** against an irrevocable unconditional Bank Guarantee issued by any scheduled Bank of Bangladesh in the format as specified (**Form PW3-11**), without alteration, and acceptable to the Procuring Entity of an amount equal to the advance payment. The Guarantee shall remain effective until the advance payment has been amortized, but the amount of the Guarantee shall be progressively reduced by the amounts amortized by the Contractor. Interest will not be charged on the advance payment.

73.2 The Contractor shall use the advance payment only to pay for Equipment, Plant, Materials, and mobilization expenses required specifically for execution of the Contract. The Contractor shall demonstrate that advance payment has been used for such specific purposes by supplying copies of invoices or other documents to the Project Manager.

73.3 The advance payment shall be amortized by deducting at proportionate rate from payments otherwise due to the Contractor, following the schedule of completed percentages of the Works as specified in the **PCC**. No account shall be taken of the advance payment or its amortization in assessing valuations of work done, Variations, price adjustments, Compensation Events, Bonuses, or Liquidated Damages.

73.4 If the amortization of advance payment has not been completed by twenty-eight (28) days prior to the expiry date of the Guarantee stated under GCC Sub Clause 73.1, the Contractor shall correspondingly extend the validity of the Guarantee for a period so long the advance payment is fully amortized. The Bank Guarantee for advance payment shall be released when the same has been fully amortized.

74. Performance Security

74.1 The Procuring Entity shall notify the Contractor of any claim made against the Bank issuing the Performance Security.

74.2 The Procuring Entity may claim against the security if any of the following events occurs for fourteen (14) days or more.

(a) The Contractor is in breach of the Contract and the Procuring Entity has duly notified him or her ; and

(b) The Contractor has not paid an amount due to the Procuring Entity and the Procuring Entity has duly notified him or her.

74.3 In the event as stated under GCC Sub Clause 74.2, the Contractor is liable to pay compensation under the Contract amounting to the full value of the security or more, the Procuring Entity may call the full amount of the security.

74.4 The Performance Security furnished at the time of signing of the Contract Agreement shall be substituted, after the issuance of certificate of Completion of works by the Project Manager, by a new Security covering fifty (50) percent amount of the Performance Security to cover the Defects Liability Period.

74.5 If there is no reason to call the security, the security shall be discharged by the Procuring Entity and returned to the Contractor after the Defects Liability period has passed and the

Project Manager has certified in the form of Defects Corrections Certificates and the Procuring Entity shall not make any claim under the security, except for amounts to which the Procuring Entity is entitled under this Contract. In the event this Contract is significantly below the updated official estimated cost or unbalanced as a result of front loading, the Procuring Entity shall call the full amount of the security in the circumstances stated under GCC Sub Clause 74.3.

75. Provisional Sums

75.1 Provisional Sums shall only be used, in whole or in part, in accordance with the Project Manager's instructions.

75.2 Plants, Materials or Services to be purchased by the Contractor under the provisions of GCC Sub Clause 75.1 from Nominated Subcontractor(s) or for meeting the other expenditures under the Contract, and for which there shall be included in the Contract price, the actual amounts paid or due to be paid by the Contractor, and a sum for profit, overhead and VAT, as applicable, calculated as a percentage of these actual amounts by applying the relevant percentage rate as specified in the **PCC.**

76. Dayworks

76.1 If applicable, the Dayworks rates in the Contractor's Tender shall be used for small additional amounts of work only when the Project Manager has given written instructions in advance for additional work to be paid for in that way.

76.2 All works to be paid for as Dayworks shall be recorded by the Contractor on forms approved by the Project Manager. Each completed form shall be certified and signed by the Project Manager within seven (7) days of the works being done.

76.3 The Contractor shall be paid for Dayworks subject to obtaining signed Dayworks forms.

77. Cost of Repairs to Loss or Damages

77.1 Loss or damage to the Works or Materials to be incorporated in the Works between the Start Date and the end of the Defects Liability Period shall be remedied by the Contractor at the Contractor's own cost, if the loss or damage arises from the Contractor's acts or omissions.

E. Completion of the Contract

78. Completion

78.1 The Contractor shall apply by notice to the Project Manager for issuing a Completion Certificate of the Works, and the Project Manager shall do so upon deciding that the work is completed.

79. Taking Over

79.1 The Procuring Entity shall take over the Site and the Works within seven (7) days of the Project Manager's issuing a certificate of Completion.

80. Amendment to Contract

80.1 The amendment to Contract shall generally include extension of time to the Intended Completion Date, increase or decrease in original Contract Price and any other changes acceptable under the conditions of the Contract.

80.2 The Procuring Entity shall amend the Contract, incorporating the changes approved, in accordance with the Delegation of

Financial Power or Sub-delegation thereof and, introduced to the original terms and conditions of the Contract

81. Final Account

81.1 The Contractor shall submit with a detailed account of the total amount that the Contractor considers payable under the Contract to the Project Manager before the end of the **Defects Liability Period**.

81.2 The Project Manager shall certify the **Final Payment** within fifty six (56) days of receiving the Contractor's account if the payable amount claimed by the Contractor is correct and the corresponding works are completed.

a. If it is not, the Project Manager shall issue within fifty six (56) days a **Defects Liability Schedule** that states the scope of the corrections or additions that are necessary.

b. If the **Final Account of Works** submitted under GCC Sub Clause 81.1 is unsatisfactory even after it has been resubmitted, the Project Manager shall decide on the amount payable to the Contractor and issue a payment certificate.

82. As-built Drawings and Manuals

a. If "As Built" Drawings and/or operating and maintenance manuals are required, the Contractor shall supply them by the dates stated in the **PCC**.

82.2 If the Contractor does not supply the Drawings and/or Manuals by the dates specified in GCC Sub Clause 82.1, or they do not receive the Project Manager's approval, the Project Manager shall withhold a nominal amount specified in the **PCC** from payments due to the Contractor.

83. Force Majeure

83.1 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind stated below;

(a) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;

(b) rebellion, terrorism, sabotage by persons other than the Contractor's personnel, revolution, insurrection, military or usurped power, or civil war ;

(c) riot, commotion, disorder, strike or lockout by persons other than the Contractor's personnel ;

(d) munitions of war, explosive materials, ionising radiation or contamination by radio-activity, except as may be attributable to the Contractor's use of such munitions, explosives, radiation or radio-activity ; and

(e) natural catastrophes such as fires, floods, epidemics, quarantine restrictions, freight embargoes, cyclone, hurricane, typhoon, tsunami, storm surge, earthquake, hill slides, landslides, and volcanic activities.

83.2 The Head of Procuring Entity decides the existence of a Force Majeure that will be the basis of the issuance of order for suspension of Works as stated under GCC Sub Clause 48.1.

84. Notice of Force

84.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall

Majeure

give notice, within fourteen (14) days after the party became aware, to the other Party of the event or circumstances constituting the Force Majeure and shall specify the obligations, the performance of which is or will be prevented.

84.2 Notwithstanding any other provision of this Clause, Force Majeure shall not apply to obligations of either Party to make payments to the other Party under the Contract.

85. Consequences of Force Majeure

85.1 The Contractor shall not be liable for forfeiture of its security, liquidated damages, or termination for default if and to the extent that it's delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

85.2 If the Contractor is prevented from performing its substantial obligations under the Contract by Force Majeure of which notice has been given under GCC Sub Clause 84, and suffers delay and/or incurs cost by reason of such Force Majeure, the Contractor shall be entitled subject to GCC Sub Clause 91 to:

(a) an extension of time for any such delay, if completion is or will be delayed, under GCC Clause 44, and

(b) if the event or circumstance is of the kind described sub-paragraphs (a) to (e) of GCC Sub Clause 83.1 occurs in the country, payment of any such cost, including the costs of rectifying or replacing the Works and physical services damaged or destructed by Force Majeure, to the extent they are not indemnified through the insurance policy referred to in GCC Clause 36.

85.3 After receiving notice under GCC Sub Clause 84.1, the Project Manager shall proceed to determine these matters under the provisions of the Contract.

86. Release from Performance

86.1 Notwithstanding any other provision of this Clause, if any event or circumstance outside the control of the parties (including, but not limited to, Force Majeure) arises which makes it impossible or unlawful for either or both Parties to fulfil its or their contractual obligations or which, under the law governing the Contract, entitles the Parties to be released from further performance of the Contract, then upon notice by either Party to the other party of such event or circumstance:

(a) the Parties shall be discharged from further performance, without prejudice to the rights of either Party in respect of any previous breach of the Contract, and

(b) the sum payable by the Procuring Entity to the Contractor shall be the same as would have been payable under GCC Sub Clause 88.3 if the Contract had been terminated under GCC Sub Clause 87.3.

F. Termination and Settlement of Disputes

87. Termination

87.1 **Termination for Default**

(a) The Procuring Entity or the Contractor, without prejudice to any other remedy for breach of Contract, by giving twenty-eight (28) days written notice of default to the other party, may terminate the Contract in whole or in part if the other party causes a fundamental breach of Contract. Fundamental breaches of the Contract shall include, but shall not be limited to, the following:

(i) the Contractor stops work for twenty-eight (28) days when no stoppage of work is shown on the current Programme and the stoppage has not been authorized by the Project Manager;

(ii) the Project Manager instructs the Contractor to delay the progress of the Works, and the instruction is not withdrawn within eighty four (84) days;

(iii) the Project Manager gives Notice that failure to correct a particular Defect is a fundamental breach of Contract and the Contractor fails to correct it within a reasonable period of time determined by the Project Manager;

(iv) the Contractor does not maintain a Security, which is required;

(v) the Contractor has delayed the completion of the Works by the number of days for which the maximum amount of Liquidated Damages can be paid, as specified in GCC Sub Clause 71;

(vi) the Contractor has subcontracted the whole of the Works or has assigned the Contract without the required agreement and without the approval of the Project Manager;

(vii) the Contractor, in the judgment of the Procuring Entity has engaged in corrupt or fraudulent practices, as defined in GCC Sub Clause 38, in competing for or in executing the Contract.

(viii) A payment certified by the Project Manager is not paid by the Procuring Entity to the Contractor within eighty-four (84) days of the date of the Project Manager's certificate.

87.2 **Termination for Insolvency**

The Procuring Entity and the Contractor may at any time terminate the Contract by giving twenty-eight (28) days written notice to the other party if either of the party becomes bankrupt or otherwise insolvent. In such event, termination will be without compensation to any party, provided that such termination will not prejudice or affect any right of action or remedy that has accrued or will accrue thereafter to the other party.

87.3 **Termination for Convenience**

(a) The Procuring Entity, by giving twenty-eight (28) days written notice sent to the Contractor, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that termination is for the Procuring Entity's convenience, the extent to which performance of the Contractor under the Contract is terminated, and the date upon which such termination becomes effective.

(b) The Procuring Entity shall not terminate the contract under GCC Sub Clause 87.3 (a) in order to execute the Works itself or to arrange for the Works to be executed by another contractor or to avoid a termination of the Contract by the Contractor as stated under GCC Sub Clause 87.1(a).

87.4 In the event the Procuring Entity terminates the Contract in whole or in part, the Procuring Entity shall accept the portion of the Works that are complete and ready for handing over after the Contractor's receipt of notice of termination of the Contract. For the remaining portion of the Works, the Procuring Entity may elect:

(a) to have any portion completed by the Contractor at the Contract terms and prices; and /or

(b) to cancel the remainder and pay to the Contractor an agreed amount for partially completed Works and for materials and parts previously procured by the Contractor, or

(c) except in the case of termination for convenience as stated under GCC Sub Clause 87.3, engage another Contractor to complete the Works, and in that case the Contractor shall be liable to the Procuring Entity for any cost that may be incurred in excess of the sum that would have been paid to the Contractor, if the work would have been executed and completed by him or her.

87.5 If the Contract is terminated, the Contractor shall stop work immediately, make the Site safe and secure, and leave the Site as soon as is reasonably possible.

87.6 The expiration of the Intended Completion Date under GCC Clause 44 and, the initiation of settlement of disputes like amicable or adjudication and arbitration under GCC Clause 92 shall not be deemed a termination of the Contract under GCC Clause 87.

88. Payment upon Termination

88.1 If the Contract is terminated because of a fundamental breach of Contract under GCC Sub Clause 87.1 by the Contractor, the Project Manager shall issue a certificate for the value of the Works done and Plant and Materials ordered less advance payments received up to the date of the issue of the certificate and, further less the amount from percentage to apply to the contract value of the works not completed, as indicated in the **PCC**. If the total amount due to the Procuring

Entity exceeds any payment due to the Contractor, the difference shall be a debt payable to the Procuring Entity.

88.2 If the Contract is terminated for the Procuring Entity's convenience or because of a fundamental breach of Contract by the Procuring Entity, the Project Manager shall issue a payment certificate for the value of the work done, Materials ordered, the reasonable cost of removal of Equipment, repatriation of the Contractor's foreign personnel employed solely on the Works and recruited specifically for the Works, and the Contractor's costs of protecting and securing the Works, and less advance payments received up to the date of the certificate.

88.3 If the Contract is terminated for reasons of Force Majeure, the Project Manager shall determine the value of the work done and issue a Payment Certificate which shall include:

(a) the amounts payable for any work carried out for which unit rates or prices are stated in the Contract;

(b) the cost of Plant and Materials ordered for the Works which have been delivered to the Contractor, or of which the Contractor is liable to accept delivery: this Plant and Materials shall become the property of (and be at the risk of) the Procuring Entity when paid for by the Procuring Entity, and the Contractor shall place the same at the Procuring Entity's disposal;

(c) other costs or liabilities which in the circumstances were reasonably and necessarily incurred by the Contractor in the expectation of completing the Works;

(d) the cost of removal of Temporary Works and Contractor's Equipment from the Site; and

(e) the cost of repatriation of the Contractor's staff and labour employed wholly in connection with the Works at the date of termination.

89. Property

89.1 All Materials on the Site, Plant, Equipment, Temporary Works, and Works shall be deemed to be the property of the Procuring Entity if the Contract is terminated because of the Contractor's default stated under GCC Sub Clause 87.1.

90. Frustration

90.1 If the Contract is frustrated by the occurrence of a situation of Force Majeure as defined in GCC Sub Clause 83, the Project Manager shall certify that the Contract has been frustrated. The Contractor shall make the Site safe and stop work as quickly as possible after receiving this certificate and shall be paid for all works carried out before receiving it and for any work carried out afterwards to which a commitment was made.

G. Claims, Disputes and Arbitration

91. Contractor's Claims

91.1 If the Contractor considers himself to be entitled to any extension of the Completion Time and/or any additional payment, under any Clause of these Conditions or otherwise in connection with the Contract, the Contractor shall give notice to the Procuring Entity, describing the event or circumstance giving rise to the claim. The notice shall be given as soon as practicable, and not later than twenty-eight (28) days after the Contractor became aware, or should have become aware, of the event or circumstance.

91.2 If the Contractor fails to give notice of a claim within such period of twenty-eight (28) days, the Intended Completion Date shall not be extended, the Contractor shall not be entitled to additional payment, and the Procuring Entity shall be discharged from all liability in connection with the claim.

91.3 Within forty two (42) days after the Contractor became aware or should have become aware of the event or circumstance giving rise to the claim, or within such other period as may be proposed by the Contractor and approved by the Project Manager, the Contractor shall send to the Project Manager a fully detailed claim which includes full supporting particulars of the basis of the claim and of the extension of time and/or additional payment claimed, for settlement.

92. Settlement of Disputes

92.1 **Amicable settlement**

The procuring Entity and the Contractor shall use their best efforts to settle amicably all possible disputes arising out of or in connection with this Contract or its interpretation.

92.2 **Adjudication**

(a) If the Contractor believes that a decision taken by the Project Manager was either outside the authority given to the Project Manager by the Contract or that the decision was wrongly taken, the decision shall be referred to the Adjudicator within fourteen (14) days of notification of the Project Manager's decision in writing.

(b) The Adjudicator named in the **PCC** is jointly appointed by the parties. In case of disagreement between the parties, the Appointing Authority designated in the **PCC** shall appoint the Adjudicator within fourteen (14) days of receipt of a request from either party.

(c) The Adjudicator shall give its decision in writing to both parties within twenty-eight (28) days of a dispute being referred to it.

(d) The Contractor shall make all payments (fees and reimbursable expenses) to the Adjudicator, and the Procuring Entity shall reimburse half of these fees

through the regular progress payments.

(e) Should the Adjudicator resign or die, or should the Procuring Entity and the Contractor agree that the Adjudicator is not functioning in accordance with the provisions of the Contract; a new Adjudicator will be jointly appointed by the Procuring Entity and the Contractor. In case of disagreement between the Procuring Entity and the Contractor the Adjudicator shall be designated by the Appointing Authority within fourteen (14) days of receipt of a request from either party as stated under GCC Sub Clause 92.2 (b)

92.3 **Arbitration**

(a) If the parties are unable to reach a settlement as per GCC Clauses 92.1 and 92.2 within twenty-eight (28) days of the first written correspondence on the matter of disagreement, then either party may give notice to the other party of its intention to commence arbitration in accordance with GCC Sub Clause 94.3(b).

(b) The arbitration shall be conducted in accordance with the Arbitration Act (**Act No 1 of 2001**) of Bangladesh as at present in force and in the place shown in the **PCC**.

Section 4. Particular Conditions of Contract

Instructions for completing the Particular Conditions of Contract are provided in italics in parenthesis for the relevant GCC Clauses.	
GCC Clause	**Amendments of, and Supplements to, Clauses in the General Conditions of Contract**
GCC 1.1(j)	The Contractor is *[Name, address, and name of authorized representative]*
GCC 1.1(ff)	The Procuring Entity is The Security Printing Corporation (Bangladesh) Ltd. Md. Mustafizur Rahman, Chief Engineer (Engineering Department) Address: Engineering Department, SPCBL, Gazipur-1703 Telephone: +88-02-223375590 Electronic mail address: info@spcbl.org.bd Telephone: +88-02-223375590
GCC 1.1(gg)	The Project Manager is Maruf Ahamed, Deputy Chief Engineer (Civil) Address: Engineering Department, SPCBL, Gazipur-1703 Telephone: +8802223375560-67 Ext. 266 Electronic mail address: maruf.ahamed@spcbl.org.bd
GCC 1.1 (bb)	The original Contract Price is *[insert the amount in the NOA]*
GCC 1.1(y)	The Intended Completion Date for the whole of the Works shall be **06 (Six) Month from the Commencement Date. The construction period shall be extended due to justified reasons in the interest of the work.**
GCC 1.1(kk)	The Site is located at **The Security Printing Corporation (Bangladesh) Ltd.** Shimoltoli Road, Gazipur Sadar, Gazipur-1703.
GCC 1.1(nn)	The Start Date shall be *[insert date]* *[it is the last date when the Contractor shall start execution of the Works under the Contract reasonably immediately after the Commencement Date; refer to GCC Clause 40]*
GCC 1.1(rr)	The Works consist of The scope of work includes the complete **design, engineering, construction, fabrication, supply, installation, testing, commissioning and handing over** of a **High Security Three-Storied Strong Room (Vault) Building** at The Security Printing Corporation (Bangladesh) Ltd. (SPCBL), Gazipur, having an approximate total floor area of **16,500 square feet (5,500 sq. ft. per floor)**, including all **sub-structure works** such as site preparation, pile works, pile caps, anchor plates and anchor bolts; **super-structure works** comprising reinforced concrete and structural steel framework, steel columns, deck slabs, RCC and brick masonry intrusion-resistant side walls and RCC roof slab; **architectural works** including all finishes and installation of fire-rated and security doors;

	HVAC works with supply, installation and commissioning of a **water-cooled chiller-based air-conditioning and humidity control system** suitable for banknote paper and ink storage; **fire detection and firefighting works** including CO□-based fire suppression system; **electrical works** including power distribution, lighting, earthing and lightning protection; **plumbing and sanitary works**; supply and installation of **cargo lift**; all **safety and miscellaneous works** required for full functionality; vetting of **Structural (Steel & RCC), HVAC, Firefighting and Electrical designs by BUET/DUET** prior to commencement of construction; and completion of all testing, commissioning, documentation, defect rectification and final handover of the facility in fully operational condition in accordance with the approved drawings, specifications and tender requirements.
GCC 2.5	The Sectional Completion Dates are: N/A
GCC 3.1	The Procuring Entity's address for the purpose of communications under this contract is : Contact person: Md. Mustafizur Rahman, Chief Engineer (Engineering Department) Address: Engineering Department, SPCBL, Gazipur-1703 Telephone: +88-02-223375590 Electronic mail address: info@spcbl.org.bd
	The Contractor's address for the purpose of communications under this contract is : Contact person: Address: Tel: Fax: e-mail address:
GCC 6.1 (j)	Other documents forming part of the Contract are; *[list other documents viz. Schedule of other contractors, Schedule of Key Personnel, Site Investigation Reports, relevant correspondences prior to signing of the Contract agreement etc.]*
GCC 9.1	The Contractor or the Subcontractor that is a national of, or registered in, the following countries are not eligible: Israel
GCC 9.2	Materials, Equipment Plants and supplies shall not have their origin in the following countries: Israel
GCC 13.1	Possession of the Site or part(s) of the Site, to the Contractor shall be given on the following date(s); Not later than 28 days from the date of Notification of Award
GCC 19.1	Following Key Personnel to carry out the functions stated in the Schedule shall be employed by the Contractor; *[insert name(s)]*
GCC 20.3	Nominated Subcontractor(s) named below; *____[insert name(s)]*_____ shall be entitled to execute the following specific components of the Works *[state none ,if not applicable]*

GCC 22.1	The Contractual matters between the Procuring Entity and the Contractor shall be decided by *[state only if other than the Project Manager]*	
GCC 36.1	The insurance cover shall be:	
	(a)	The minimum cover for the Works and of Plant and Materials is Tk. **Not applicable**
	(b)	The maximum deductible for insurance of the Works and of Plant and Materials is **Not applicable**
	(c)	The minimum cover for loss or damage to Equipment is Tk **Not applicable**
	(d)	The maximum deductible for insurance of Equipment is **Not applicable**
	(e)	The minimum cover for other property is **Not applicable**
	(f)	The maximum deductible for insurance of other property is **Not applicable**
	(g)	The minimum cover for personal injury or death: (i) for the Contractor's employees is as per the law and common practice in Bangladesh. (ii) and for third parties is as per the law and common practice in Bangladesh.
GCC 39.1	Commencement Date shall be *(to be specified in the Notification of Award.)*	
GCC 40.1	The Intended Completion Date of the Works shall be *(to be specified in the Notification of Award.)*	
GCC 41.1	The Contractor shall submit a Programme for the Works within ***15 (Fifteen)*** days of signing the Contract.	
GCC 41.2	The period between Programme updates is **(*monthly)***	
GCC 41.3	The amount to be withheld for late submission of an updated Programme is *[state amount].*	
GCC 56.1	The Defects Liability Period is ***[12 Month]***	
GCC 65.1	A total of 9 running bills shall be paid, and upon completion of all works, the final bill shall be paid, making the total number of payments 10. The running bills may be of any amount, depending on the executed works. Both the running and final bills shall be paid against the works completed. For imported HVAC system components, including but not limited to Chillers, AHUs and associated accessories, payment of up to **fifty percent (50%)** of the respective item value shall be eligible only upon completion of **Pre-Shipment Inspection (PSI)** and receipt of a **satisfactory inspection report** issued by the authorized representative of SPCBL. Such payment shall be subject to full compliance with the approved technical specifications, contract conditions, and submission of all required inspection documents. The remaining payment shall be released after delivery, installation, testing and commissioning of the respective items at site.	

GCC 65.3	The particulars of the Bank Account nominated are as follows : Title of the Account : *[insert title to whom the Contract awarded]* Name of the Bank : *[insert name with code, if any]* Name of the Branch : *[insert branch name with code ,if any]* Account Number : *[insert number]* Address : *[insert location with district]* Tel : Fax : e-mail address : *[information furnished by the Contractor shall be substantiated by the concerned Bank and authenticated by the Procuring Entity]*
GCC 66.1	The rate of interest shall be the prevailing rate of interest for commercial borrowing established in the country. None
GCC 67.1(m) **GCC 69.1**	The following additional events shall also be the Compensation Events:None The Contract is not subject to price adjustment.
GCC 70.1	The proportion of payments to be retained is ***[Ten (10)]*** percent.
GCC 71.1	The amount of Liquidated Damages is **[*0.05*]** of ONE (1) percent of the contract value of the uncompleted works or any part thereof completed after expiry of the Intended Completion Date or extended Intended Completion Date, as applicable, per day of delay. **Guide to application of GCC Sub Clause 71.1 above** ***[Liquidated damages is equivalent to an amount to be determined in accordance with the following formulae*** T = VxPx n ***Where;*** T = ***Total amount of Liquidated Damages*** V = ***Contract Value of Uncompleted Works*, *completed after the expiry of the Intended Completion Date or extended Intended Completion Date, as applicable*** P = ***Percent-rate at which the Liquidated Damages shall be imposed per day of delay*** n = ***No of days delayed for completion of uncompleted works or part thereof after the* expiry of the Intended Completion Date or extended Intended Completion Date, as applicable.**
GCC 71.1	The maximum amount of Liquidated Damages for the uncompleted Works or any part thereof is ***[ten (10)*]** percent of the final Contract Price of the whole of the Works.

GCC 72.1	The Bonus for the whole of the Works is *[insert between 0.05 and 0.10)]*percent of the final Contract Price per day of early completion: Not Applicable. The maximum amount of Bonus for the whole of the Works is *[insert ≤ ten (10)]* percent of the final Contract Price
GCC 73.1	The Advance Payment shall be Tk [*insert amount*] and shall be paid to the Contractor not later than [*insert date*]. Not Applicable
GCC 73.4	Advance Payment shall be amortized at the rate of [*insert percentage*] from the progressive payments of invoices. Not Applicable
GCC 75.2	The percentage for adjustment of Provisional Sums is None ____% (_____percent) [*state none, if not applicable. Usually covers the profit, overhead and VAT costs]*
GCC 82.1	The date by which "**as-built**" drawings are required is *[insert date]* The date by which operating and maintenance manuals are required is *[insert date]*
GCC 82.2	The amount to be withheld for failing to produce "**as-built**" drawings and/or operating and maintenance manuals by the date required is **Tk *5,0000***
GCC 88.1	The percentage to apply to the contract value of the works not completed, representing the Procuring Entity's additional cost for completing the uncompleted Works, is *[15]* percent. *[usually depending on the nature of the Works]*
GCC 92.2 (b)	The Adjudicator jointly appointed by the parties is: Name: Address: Tel No: Fax No: e-mail address:
GCC 92.2(b)	In case of disagreement between the parties, the Appointing Authority for the Adjudicator is the President of the Institution of Engineers, Bangladesh (IEB).
GCC 92.3 (b)	The arbitration shall be conducted in the place mentioned below; Board room, 3rd floor, Head Office, Bangladesh Bank, Motijheel, Dhaka.

Section 5. Tender and Contract Forms

Form	Title
	Tender Forms
PW3 – 1	Tender Submission Letter
PW3 – 2	Tenderer Information
PW3 – 3	JV Partner Information (*if applicable*)
PW3 – 4	Subcontractor Information (*if applicable*)
PW3 – 5	Personnel Information
PW3-5A	Tenderer's Past Performance Information
PW3-5B	Tenderer's Capacity Information
PW3 – 6	Bank Guarantee for Tender Security (*when this option is chosen*)
PW3 - 7	Bank's Letter of Commitment for Line of Credit (*when this option is chosen*)
	Contract Forms
PW3 – 8	Notification of Award
PW3 – 9	Contract Agreement
PW3 – 10	Bank Guarantee for Performance Security (*when this option is chosen*)

Forms **PW3-1** to **PW3 -7** comprises part of the Tender Format and should be completed as stated in ITT Clauses 24.

Forms **PW3-8** to **PW3 -10**comprises part of the Contract as stated in GCC Clause 6.

Tender Submission Letter (Form PW3-1)

[This letter should be completed and signed by the Authorised Signatory on the Letter-Head Pad of the Tenderer]

To: *[Contact Person]* *[Name of the Procuring Entity]* *[Address of the Procuring Entity]*	Date:
Invitation for Tender No:	*IFT No.* _____
Tender Package No:	*Package No.* _____
Lot No: (*when applicable*)	*Lot No.* _____

We, the undersigned, tender to execute in conformity with the Tender Document, the following Works and physical services, viz:

In accordance with ITT Clause 27and 28, the following price applies to our Tender:

The Tender price is: (ITT Sub Clause 27.4 and 28.1)	Tk._____ *[in figures]* Taka_____ *[in words]*
The advance payment (when applicable) is: *[insert the amount based on percentage of the Tender Price]* (GCC Sub Clause 73.1)	Taka_____ *[in words]* Taka_____ *[in words]*

and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form **PW3–10.**

In accordance with ITT Sub Clauses 27.6, the following discounts shall apply to our Tender:	
The unconditional discount proposed in this package/Lot is:	In Percentage(%).----------
The discount shall be equally applicable on all the items of BOQ after arithmetical correction.	

In signing this letter, and in submitting our Tender, we also confirm that:

(a) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub Clause 33.1) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;

(b) a Tender Security is attached in the form of a *[state Pay Order, Bank Draft, Bank Guarantee]* in the amount stated in the Tender Data Sheet (ITT Sub Clause 36.1) and valid for a period of twenty-eight (28) days beyond the Tender Validity date;

(c) if our Tender is accepted, we commit to furnishing a Performance Security within the time stated under ITT Sub Clause 66.2 in the amount stated in the Tender Data Sheet (ITT SubClauses65.1) and in the form specified in the Tender Data Sheet(ITT Sub Clause 66.1) valid for a period of twenty-eight (28) days beyond the date of issue of the Completion Certificate of the Works;

(d) we have examined and have no reservations to the Tender Document, issued by you on *[insert date];*including Addendum to Tender Document No(s) [*state numbers*] , issued in accordance with the Instructions to Tenderers (ITT Clause 11). *[insert the number and issuing date of each addendum; or delete this sentence if no Addendum has been issued];*

(e) we, including as applicable, any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have nationalities from eligible countries, in accordance with ITT Sub Clause 5.1;

(f) we are submitting this Tender as a sole Tenderer in accordance with ITT Sub Clause 40.3

or

we are submitting this Tender as the partners of a JV, comprising the following other partners in accordance with ITT Sub Clause 40.3*;*

	Name of Partner	Location & District of Partner
1		
2		
3		
4		

(g) *we are not a Government owned entity as defined in ITT Sub Clause 5.3*

or

we are a Government owned entity, and we meet the requirements of ITT Sub Clause 5.10;

(h) we, including as applicable any JV partner, declare that we are not associated, nor have been associated in the past, directly or indirectly, with a consultant or any other entity that has prepared the design, specifications and other documents in accordance with ITT Sub Clause 5.6;

(i) we, including as applicable any JV partner or Subcontractor for any part of the contract resulting from this Tender process, have not been declared ineligible by the Government of Bangladesh on charges of engaging in corrupt, fraudulent, collusive or coercive practices in accordance with ITT Sub Clause 5.7;

(j) furthermore, we are aware of ITT Clause 4 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;

(k) we intend to subcontract an activity or part of the Works, in accordance with ITT Sub Clause 19.1, to the following Subcontractor(s);

Activity or part of the Works	Name of Subcontractor with Location and District

(l) we, including as applicable any JV partner, confirm that we do not have a record of poor performance, such as abandoning the works, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information (**Form PW3-2**);

(m) we are not participating as Tenderer in more than one Tender in this Tendering process. We understand that your written Notification of Award shall constitute the acceptance of our Tender and shall become a binding Contract between us, until a formal Contract is prepared and executed;

(n) we, including as applicable any JV partner, confirm that we do not have a record of insolvency, receivership, bankrupt or being wound up, our business activities were not been suspended, and it was not been the subject of legal proceedings in accordance with ITT Sub Clause 5.9;

(o) we, including as applicable any JV partner, confirm that we have fulfilled our obligations to pay taxes and social security contributions applicable under the relevant national laws and regulations of Bangladesh in accordance with ITT Sub Clause 5.5;

(p) we understand that you reserve the right to reject all the Tenders or annul the Tender proceedings, without incurring any liability to Tenderer, in accordance with ITT Clause 60.

Signature:	*[insert signature of authorised representative of the Tenderer]*
Name:	*[insert full name of signatory with National ID Number]*
In the capacity of:	*[insert capacity of signatory]*
Duly authorised to sign the Tender for and on behalf of the Tenderer	

[If there is more than one (1) signatory, or in the case of a JV, add other boxes and sign accordingly].
Attachment 1:
[ITT Sub Clause 40.3]
Written confirmation authorising the above signatory(ies) to commit the Tenderer

[and, if applicable]
Attachment 2:
[ITT Sub Clause 29.2(b)]
Copy of the JV Agreement / Letter of Intent to form JV with draft proposed Agreement

Tenderer Information (Form PW3-2)

[This Form should be completed only by the Tenderer, preferably on its Letter-Head Pad]

Invitation for Tender No: *IFT No]*

Tender Package No: *[Package No]*

Lot No (*when applicable*) *[Lot No)]*

1.	Eligibility Information of the Tenderer [ITT –Clauses 5& 29]			
1.1	Nationality of individual or country of registration			
1.2	Tenderer's legal title			
1.3	Tenderer's registered address			
1.4	Tenderer's legal status *[complete the relevant box]*			
	Proprietorship			
	Partnership			
	Limited Liability Concern			
	Government-owned Enterprise			
	Others [please describe, if applicable]			
1.5	Tenderer's year of registration			
1.6	Tenderer's authorised representative details			
	Name			
	National ID number			
	Address			
	Telephone / Fax numbers			
	e-mail address			
1.7	Litigation [ITT Cause 13]			
	A. No pending litigation ☐[if no pending litigation put Tick Mark in Box]			
	B. Pending litigation			
	Year	Matter in dispute	Value of Pending Claim	Value of Pending

			in Taka	Claim as Percentage of Net Worth

1.8	Tenderer to attach photocopies of the original documents mentioned aside	[All documents required under ITT Clauses 5 and 29]
The following two information are applicable for National Tenderers		
1.9	Tenderer's Value Added Tax Registration (VAT) Number	
1.10	Tenderer's Tax Identification Number(TIN)	
[The foreign Tenderers, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]		

2.	Qualification Information of the Tenderer [ITT Clause32]			
2.1	General Experience in Construction Works of Tenderer [State years of experience]			
2.2	Specific Experience in Construction Works of Tenderer Completed Contracts of similar nature, complexity and methods/construction technology			
	Contract No Name of Contract	[insert reference no] of [insert year] [insert name]		
	Role in Contract *[tick relevant box].*	Prime Contractor	Subcontractor	Management Contractor
	Award date Completion date Total Contract Value	[insert date] [insert date] [insert amount]		
	Procuring Entity's Name Address Tel / Fax e-mail Brief description with justifications of the similarity compared to the Procuring Entity's requirements	[state justification in support of its similarity compared to the proposed works]		

2.3	Average annual construction turnover [ITT Sub Clause15.1(a)] *[total certified payments received for contracts in progress or completed under public sector for a period as stated under ITT Sub Clause 15.1(a), using rate of exchange at the end of the period reported]*		
	Year	Currency	Amount Taka or Equivalent Taka

2.4	Liquid assets available to meet the construction cash flow [ITT Sub Clause 15.1(b)]		
	No	Source of Financing	Amount Available

In order to confirm the above statements the Tenderer shall submit , as applicable, the documents mentioned in ITT Sub Clause 32.1(d)

2.5	Contact Details [ITT Sub Clause 32.1 (h)]			
	Name, address, and other contact details of Tenderer Bankers and other Procuring Entity(s) that may provide references, if contacted by this Procuring Entity			
2.6	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [ITT Sub Clause 32.1(f)]			
	Name	Position	Years of General Experience	Years of Specific Experience

[*Tenderer to complete details of as many personnel as are applicable.Each personnel listed above should complete the Personnel Information (Form PW3-5*)]

2.7	Major Construction Equipment proposed to carry out the Contract [ITT Sub Clause 32.1(g)]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, lessor or seller)

[Tenderer to list details of each item of major construction equipment, as applicable]

JV Partner Information (Form PW3-3)

[This Form should be completed by each JV partner].

Invitation for Tender No: *[IFT No]*

Tender Package No: *Package No]*

Lot No. (*when applicable*) *[Lot No)]*

1.	Eligibility Information of the JV Partner [ITT –Clauses 5 & 29]			
1.1	Nationality of individual or country of registration			
1.2	JV Partner's legal title			
1.3	JV Partner's registered address			
1.4	JV Partner's legal status *[complete the relevant box]*			
	Proprietorship			
	Partnership			
	Limited Liability Concern			
	Government-owned Enterprise			
	Others [please describe, if applicable]			
1.5	JV Partner's year of registration			
1.6	JV Partner's authorised representative details			
	Name			
	National ID number			
	Address			
	Telephone / Fax numbers			
	e-mail address			
1.7	Litigation [ITT Cause 13]			
	A. No pending litigation ☐[if no pending litigation put Tick Mark in Box]			
	B. Pending litigation			
	Year	Matter in dispute	Value of Pending Claim	Value of Pending Claim as

			in Taka	Percentage of Net Worth

1.8	JV Partner to attach photocopies of the original documents mentioned aside	[All documents required under ITT Clauses 5 and 29]
The following two information are applicable for national JV Partners only		
1.9	JV Partner's Value Added Tax Registration (VAT) Number	
1.10	JV Partner's Tax Identification Number(TIN)	
[The foreign JV Partners, in accordance with ITT Sub Clause 5.1, shall provide evidence by a written declaration to that effect to demonstrate that it meets the criterion]		

2. Key Activity(ies) for which it is intended to be joint ventured, if it can be specified [ITT Sub Clause 18.2]

	Elements of Activity	Brief description of Activity

3. Qualification Information of the JV Partners[ITT Clause 32]

3.1	General Experience in Construction Works of JV Partners[State years of experience]			
3.2	Specific Experience in Construction Works of JV Partners Completed Contracts of similar nature, complexity and methods/construction technology			
	Contract No Name of Contract	[insert reference no] of [insert year] [insert name]		
	Role in Contract *[tick relevant box].*	Prime Contractor	Subcontractor	Management Contractor
	Award date Completion date Total Contract Value	[insert date] [insert date] [insert amount]		
	Procuring Entity's Name Address Tel / Fax e-mail Brief description with justifications of the similarity compared to the Procuring Entity's requirements	[state justification in support of its similarity compared to the proposed works]		
3.3	Average annual construction turnover [ITT Sub Clause15.1(a)] *[[total certified payments received for contracts in progress or completed under public sector for a period as stated under ITT Sub Clause 15.1(a), using rate of exchange at the end of the period reported]]*			

	Year	Currency	Amount Taka or Equivalent Taka

3.4	Liquid assets available to meet the construction cash flow [ITT Sub Clause 15.1(b)]		
	No	Source of Financing	Amount Available

In order to confirm the above statements the JV Partners shall submit , as applicable, the documents mentioned in ITT Sub Clause 32.1(d)

3.5	Contact Details [ITT Sub Clause 32.1 (h)]
	Name, address, and other contact details of JV Partner's Bankers and other Procuring Entity(s) that may provide references, if contacted by this Procuring Entity

3.6	Qualifications and experience of key technical and administrative personnel proposed for Contract administration and management [ITT Sub Clause 32.1(f)]			
	Name	Position	Years of General Experience	Years of Specific Experience

[JV Partners *to complete details of as many personnel as are applicable.Each personnel listed above should complete the Personnel Information (Form PW3-5*)]

3.7	Major Construction Equipment proposed to carry out the Contract [ITT Sub Clause 32.1(g)]		
	Item of Equipment	Condition (new, good, average, poor)	Owned, leased or to be purchased (state owner, lessor or seller)

[Tenderer to list details of each item of major construction equipment, as applicable]

Subcontractor Information (Form PW3-4)

[This Form should be completed by each Subcontractor, preferably on its Letter-Head Pad]

Invitation for Tender No:	*[IFT No]*
Tender Package No	*[Package No]*
Lot No. (*when applicable*)	*[Lot No]*

1.	Eligibility Information of the Subcontractor [*ITT –Clauses 5& 29]*	
1.1	Nationality of Individual or country of Registration	
1.2	Subcontractor's legal title	
1.3	Subcontractor's registered address	
1.4	Subcontractor's legal status *[complete the relevant box]*	
	Proprietorship	
	Partnership	
	Limited Liability Concern	
	Government-owned Enterprise	
	Other (please describe)	
1.5	Subcontractor's year of registration	
1.6	Subcontractor's authorised representative details	
	Name	
	Address	
	Telephone / Fax numbers	
	e-mail address	
1.7	Subcontractor to attach copies of the following original documents	All documents to the extent relevant toITT Clause 5 and 29 in support of its qualifications
The following two information are applicable for national Subcontractors		
1.8	Subcontractor's Value Added Tax Registration (VAT) Number	
1.9	Subcontractor's Tax Identification Number(TIN)	
[The foreign Subcontractors , in accordance with ITT sub Clause 5.1, shall provide evidence by a		

written declaration to that effect to demonstrate that it meets the criterion]			
2. Key Activity(ies) for which it is intended to be Subcontracted [ITT Sub Clause 19.1]			
2.1	Elements of Activity	Brief description of Activity	
2.2	List of Similar Contracts in which the proposed Subcontractor had been engaged		
	Name of Contract and Year of Execution		
	Value of Contract		
	Name of Procuring Entity		
	Contact Person and contact details		
	Type of Work performed		

Personnel Information (Form PW3-5)

[This Form should be completed for each person proposed by the Tenderer in Form PW3-2 & PW3-3, where applicable]

Invitation for Tender No:	*[IFT No]*
Tender Package No	*[Package No]*
Lot No. (*when applicable*)	*[Lot No]*

A.	**Proposed Position** (tick the relevant box)		
☐	Construction Project Manager	☐ Prime Candidate	☐ Alternative Candidate
☐	Key Personnel	☐ Prime Candidate	☐ Alternative Candidate
B.	**Personal Data**		
Name			
Date of Birth			
Years overall experience			
National ID Number			
Years of employment with the Tenderer			
Professional Qualifications: 1.			
C.	**Present Employment** *[to be completed only if not employed by the Tenderer]*		
Name of Procuring Entity (working under):			
Address of Procuring Entity (working under):			
Present Job Title:			
Years with present Procuring Entity:			
Tel No:		Fax No:	e-mail address:
Contact *[manager/personnel officer]:*			
D.	**Professional Experience**		
Summarise professional experience over the past twenty years, in reverse chronological order. Indicate particular technical and managerial experience relevant to the project.			

	From	To	Company / Project / Position / Relevant technical and management experience.
1			
2			

Tenderer's Past Performance Information (Form PW3-5A)

Invitation for Tender No: *IFT No]*

Tender Package No: *[Package No]*

Lot No (*when applicable*) *[Lot No)]*

Date of IFT Publication:

Name of the Tenderer:

[Note: If the Tenderer is a JV, each partners of the JV (Lead & Others) have to fill the form separately]

Name of JV Partner (If the tender is JV):

Business Share of JV Partner:

Role in JV [Lead/other]:

(A) List of Successfully Completed Contract during the last 5 years from IFT Date under the organization of the Procuring Entity inviting tender:

SL No	Name of Works Contract	Value of works Contract	Date of actual completion
1			
2			
3			

(B) List of On-Going Works / Current Commitment Under any Organization:

SL No	Name of On-Going Works and Current Commitments	Value of the work	Date of Signing Contract	Date of completion of contract	Name of Organization
1					
2					
3					

Tenderer's Capacity Information (Form PW3-5B)

Invitation for Tender No: *IFT No]*

Tender Package No: *[Package No]*

Lot No (*when applicable*) *[Lot No)]*

Date of IFT Publication:

Name of the Tenderer:

[Note: If the Tenderer is a JV, each partners of the JV (Lead & Others) have to fill the form separately]

Name of JV Partner (If the tender is JV):

Business Share of JV Partner:

Role in JV [Lead/other]:

List of certified payment for ongoing or Completed Contract under any government Organization for the year in which maximum value of work performed within 5 years from IFT Date.

SL No	Name of Works contract	Value of Contract	Date of Signing Contract	Date of completion of contract
1				
2				
3				
4				

Bank Guarantee for Tender Security (Form PW3-6)

[This is the format for the Tender Security to be issued by any scheduled Bank of Bangladesh in accordance with ITT Clause 35 & 36]

Invitation for Tender No: Date:

Tender Package No:

Lot No (*when applicable*)
To:

[Name and address of the Procuring Entity**]**

TENDER GUARANTEE No: [insert number**]**

We have been informed that *[name of Tenderer]* (hereinafter called "the Tenderer") intends to submit to you its Tender dated *[date of Tender]* (hereinafter called "the Tender") for the execution of the Works of *[description of works]* under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, the Tender must be supported by a Bank Guarantee for Tender Security.

At the request of the Tenderer, we *[name of Bank]* hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and words]* upon receipt by us of your first written demand accompanied by a written statement that the Tenderer is in breach of its obligation(s) under the Tender conditions, because the Tenderer:

a. has withdrawn its Tender after opening of Tenders but within the validity of the Tender Security; or
b. refused to accept the Notification of Award (NOA) within the period as stated under ITT; or
c. failed to furnish Performance Security within the period stipulated in the NOA; or
d. refused to sign the Contract Agreement by the time specified in the NOA; or
e. did not accept the correction of the Tender price following the correction of the arithmetic errors as stated under ITT.

This guarantee will expire

(a) if the Tenderer is the successful Tenderer, upon our receipt of a copy of the Contract Agreement signed by the Tenderer or a copy of the Performance Security issued to you in accordance with the ITT; or
(b) if the Tenderer is not the successful Tenderer, twenty-eight (28) days after the expiration of the Tenderer's Tender Validity period, being *[date of expiration of the Tender Validity plus twenty-eight (28) days].*

Consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature Signature

Letter of Commitment for Bank's Undertaking for Line of Credit (Form PW3-7)

[This is the format for the Credit Line to be issued by any scheduled Bank of Bangladesh in accordance with ITT Clause 32.1(d)]

Invitation for Tender No: Date:

Tender Package No:

Lot No (*when applicable*)
To:

[*Name and address of the Procuring Entity*]

CREDIT COMMITTMENT No: [insert number]

We have been informed that ***[****name of Tenderer****]*** (hereinafter called "the Tenderer") intends to submit to you its Tender (hereinafter called "the Tender") for the execution of the Works of ***[****description of works****]*** under the above Invitation for Tenders (hereinafter called "the IFT").

Furthermore, we understand that, according to your conditions, the Tenderer's Financial Capacity i.e. Liquid Asset must be substantiated by a Letter of Commitment of Bank's Undertaking for Line of Credit.

At the request of, and arrangement with, the Tenderer, we ***[****name and address of the Bank****]*** do hereby agree and undertake that [*name and address of the Tenderer*] will be provided by us with a revolving line of credit, in case awarded the Contract, for execution of the Works viz.[*insert name of works*], for an amount not less than BDT[*in figure*] (*in words*) for the sole purpose of the execution of the above Contract. This Revolving Line of Credit will be maintained by us until issuance of "**Taking-Over Certificate**" by the Procuring Entity.

In witness whereof, authorised representative of the Bank has hereunto signed and sealed this Letter of Commitment.

Signature Signature

Notification of Award (Form PW3-8)

Contract No: Date:
To:

[Name of Contractor]

This is to notify you that your Tender dated *[insert date]* for the execution of the Works for *[name of project/Contract]* for the Contract Price of Tk *[state amount in figures and in words]*, as corrected and modified in accordance with the Instructions to Tenderers, has been approved by *[name of Procuring Entity].*

You are thus requested to take following actions:

i. accept in writing the Notification of Award within seven (7) working days of its issuance in accordance with ITT Clause 64

ii. furnish a Performance Security in the form as specified and in the amount of Tk *[state amount in figures and words]* ,within fourteen (14) days of acceptance of this Notification of Award but not later than *(specify date),* in accordance with ITT Clause 65 & 66.

iii. sign the Contract within twenty-eight (28)days of issuance of this Notification of Award but not later than *(specify date),* in accordance with ITT Clause 70.

You may proceed with the execution of the Works only upon completion of the above tasks. You may also please note that this Notification of Award shall constitute the formation of this Contract which shall become binding upon you.

We attach the draft Contract and all other documents for your perusal and signature.

Signed

Duly authorised to sign for and on behalf of *[name of Procuring Entity]*

Date:

Contract Agreement (Form PW3-9)

THIS AGREEMENT made the *[day]* day of *[month][year]* between *[name and address of Procuring Entity]* (hereinafter called "the Procuring Entity") of the one part and *[name and address of Contractor]* (hereinafter called "the Contractor") of the other part:

WHEREAS the Procuring Entity invited Tenders for certain works, viz, *[brief description of works]* and has accepted a Tender by the Contractor for the execution of those works in the sum of Taka *[Contract Price in figures and in words]* (hereinafter called "the Contract Price").

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the General Conditions of Contract hereafter referred to.

2. The documents forming the Contract shall be interpreted in the following order of priority:

   (a) the signed Contract Agreement
   (b) the Notification of Award
   (c) the completed Tender and the Appendix to the Tender
   (d) the Particular Conditions of Contract
   (e) the General Conditions of Contract
   (f) the Technical Specifications
   (g) the General Specifications
   (h) the Drawings
   (i) the priced BOQ and the Schedules
   (j) any other document listed in the **PCC** forming part of the Contract.

3. In consideration of the payments to be made by the Procuring Entity to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Procuring Entity to execute and complete the works and to remedy any defects therein in conformity in all respects with the provisions of the Contract.

4. The Procuring Entity hereby covenants to pay the Contractor in consideration of the execution and completion of the works and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with the laws of Bangladesh on the day, month and year first written above.

For the Procuring Entity For the Contractor

Signature

Name

National ID No.
Title

In the presence of Name

Address

Bank Guarantee for Performance Security (Form PW3-10)

[This is the format for the Performance Security to be issued by any scheduled Bank of Bangladesh in accordance with ITT Clause 65, 66, 67 & 68]

Contract No: [insert reference number] Date: [insert date]

To:

[insert Name and address of Procuring Entity]

PERFORMANCE GUARANTEE No: [insert number]

We have been informed that *[name of Contractor]* (hereinafter called "the Contractor") has undertaken, pursuant to Contract No *[insert reference number of Contract]* dated *[insert date of Contract]* (hereinafter called "the Contract"), the execution of works *[description of works]* under the Contract.

Furthermore, we understand that, according to your conditions, the Contract must be supported by a Bank Guarantee for Performance Security.

At the request of the Contractor, we *[name of Bank]* hereby irrevocably unconditionally undertake to pay you, without cavil or argument, any sum or sums not exceeding in total an amount of Tk *[insert amount in figures and in words]* upon receipt by us of your first written demand accompanied by a written statement that the Contractor is in breach of its obligation(s) under the Contract conditions, without you needing to prove or show grounds or reasons for your demand of the sum specified therein.

This guarantee is valid until *[date of validity of guarantee]*, consequently, we must receive at the above-mentioned office any demand for payment under this guarantee on or before that date.

Signature Signature

Section 6. Bill of Quantities

SCHEDULE OF ITEMS FOR RATES INCLUDING HIRE CHARGE OF SHUTTERING, SCAFFOLDING, ALL SAFETY ITEM, ALL CONSTRUCTION EQUIPMENT, TECHNICAL MANPOWER, ALL CONSTRUCTION MATERIALS WILL BE SUPPLIED BY CONTRACTOR.

ABSTRACT OF COST

PART	WORKS	AMOUNT IN TAKA	REMARKS
A	GENERAL ITEM		
B	PRELIMINARY ITEM (SUB STRUCTURE & SUPER STRUCTURE)		
C	FINISHING ITEM		
D	STEEL STRUCTURE		
E	MEP WORK		
F	FIRE FIGHTING SYSTEM		
G	MISCELLANEOUS ITEM		
	TOTAL =		

IN WORD (TAKA):

Bill of Quantity for Tender

Project Name: Construction & Fabrication of High Security Steel Structure & Reinforcement Concrete Vault Building.

Item No	Item Code (If Any)	Description of Item	Unit	Quantity	Unit Rate (BDT.)	Amount (BDT.)
Part A. General Item:						
1.0		**Erection and maintenance of site office and removal the same** after completion of work in accordance with the conditions of contract. In addition to the office required for his own use, the Contractor shall provide and maintain furnished field office for the use of the Engineer and his staff. The field office is to have a concrete floor, adequate foundation, brick walls, false ceiling of hard board with seasoned Garjan wood frame and painted, and all windows are to be glazed and provided with steel grill. Outside and inside wall surface are to be painted on plaster acceptable to the Engineer. The field office shall be maintained in a secure and watertight condition by the Contractor until the completion of the contract and shall be provided with electricity, running water and sewerage. All doors shall be fitted with approved locks and windows shall be provided with screen/blinds. Before construction the Contractor shall submit plans and drawings showing proposed details and location for the field office, including foundations, access roads, shades, layout of electrical and water supply and hard standings thereto for the approval of the engineer. The Engineer may require revision of the plans prior to giving approval for construction. The Contractor shall also submit details proposed furniture, fittings and other items of equipment and plant to the engineer for approval. These items shall be of the standard quality suitable for site. The office, complete with furnishings, fittings, access roads and hard standings shall be ready for occupation by the Engineer within 28 days of the date when the Contractor first occupies the site. The Contractor will provide day and night guards and a tea boy for the field office. At the end of the project all materials, equipment and plant, furniture, fittings recovered from dismantling the office and removing access road will be the property of the Contractor. No interim payment shall be certified unless Engineer's office with required facilities are constructed and accepted by the Engineer.				

1.1		**Engineer's site office** of minimum 38 sqm plinth area with providing necessary facilities including office furniture (for conference room and office), 24000 BTU air cooler (Gree Brand AC), umbrella, crookeries, water purifier (Hot/Warm/cold, Deng-Yuan made in Taiwan), PC with monitor (24" monitor HP Brand with Standard Specification), uninterruptible power supply (UPS), laser jet printer (minimum 20 ppm), A3 Colour Printer (Brother Brand), Projector with screen for presentation works, LED flood light fittings (Halogen) for sight security; supply, installation, testing & commissioning of CCTV/Surveillance facilities for monitoring construction site including supply, fixing of 10.0 megapixel IR fixed bullet network IP camera (10nos) including lens, bracket, housing with outdoor night vision facilities, full HD 1080 pixel, real time video, network video recorder (NVR) , 2 TB HDD for NVR , 16/32 port PoE switch, 55" Full HD CCTV android monitor (Sony Bravia XR A80K 55 inch4K UHD OLED HDR Smart Android Google TV), provide connection of 10nos mobile phone for monitoring, cable & accessories, internet connection with operation & maintenance cost throughout contract completion period, re-fitting & re-fixing with progress of construction and Providing coloured progress picture & video of works all complete as per direction of Engineer-in-charge. etc.	L.S	1		
2		Providing Working Drawings subject to Engineer's approval produced in AutoCAD software in 584.5 mm x 413.5 mm (A-2 size) standard drawing paper, and operating and maintenance manual of the equipment and plant incorporated in the works, if any, in original by the date stated in the Particular Conditions of Contract (PCC). If the Contractor does not supply the working drawings and operating and maintenance manuals 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 payments due to the Contractor.The working drawings must show the permanent works as actually constructed and reflect the revision of Tender Drawings and Drawings supplied to the Contractor during the Contract as well as revisions of drawings supplied by the Contractor during the Contract. (3set of working drawings shall be considered for measurement and payment). all complete and accepted by the Engineer-in-charge.	L.S	1		
3		Providing and maintenance one **project profile signboards** of the size not exceeding 1 m x 2 m, to be placed at a suitable place of the site including submission of proposals for the materials of the signboards 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 Engineer-in-charge.	Sqm	5.5		

4		**Providing layout** and carry over PWD Bench-Mark (BM) at site from nearby BM pillar, Property lines, existing ground level (EGL), formation ground level (FGL), highest flood levels (HFL), plinth levels (PL), mean sea level (MSL), setting and marking all pillars, marker, pegs etc. showing and maintaining reduced levels (RL's) including locating, establishing, protecting all public utilities within the premise of work and finally all to be presented in black and white. all complete and accepted by the Engineer-in-charge.	Sqm	602.78		
5		**a) Mobilization** and cleaning site before commencing actual physical work and during the contract period and **demobilization** after completion of the works under contract to be accepted by the Engineer-in-charge. This work shall also cover cleaning and clearing, cutting or filling, Labour Shade Making , Temporary Toilet Making and dressing the project area on and in the ground to an extent that all the events of works of the project can be executed smoothly in a working environment with particular attention to safety and security in all respects, and to stockpile the end outcome to a place for disposal agreed by the Engineer-in-charge, where, payments are to be based on ground area determined by the Engineer-in-charge. b) **Mobilization and demobilization of Batching Plant:** Mobilization and demobilization of batching plant including transportation, erection, commissioning, operation support, dismantling and removal of the complete batching plant with all accessories, utilities, manpower and equipment from and to the approved locations, as required for execution of the works, all complete as per contract requirements and to the satisfaction of the Engineer.	Lot	1.00		
6		Safety				
6.1		**Safety Canopy:** Supplying temporary safety canopy around construction work place where public safety is likely to be endangered due to construction activities; which shall be made of truss system of steel sections (main frame) at 1800 mm c/c with purlins @ 750 mm c/c, making flooring system by corrugated galvanized iron sheets of thickness 0.45 mm, laying wire mesh net on iron sheets, providing continuous gutter along the edges of the building with downpipe @ 6000 mm c/c, including fitting and fixing in position providing necessary anchors, cables, wires, ties etc. by standard anchoring and welding, nut-bolts etc, all complete and accepted by the Engineer-in-charge. (At the end of the project all materials will be the property of the Contractor)	Sqm	214.5		
6.2		Safety net: Supplying temporary safety net (hessian cloth) around construction work place (along the height of the building) where public safety is likely to be endangered due to construction activities; which shall be supported using scaffolding around the building for brick work/ plaster; including fitting and fixing in position providing necessary anchors, wires, ties etc. all complete and accepted by the Engineer-in-charge. (Rate is excluding the cost of scaffolding)	Sqm	1672		

6.3		Supply and installation of 0.457 mm thick corrugated galvanized iron sheet (Bangladesh made) having min weight 63-65 kg per bundle (2'-6" width, 70 – 72 rft long) fitted and fixed on M.S. sections with 'J' hook or wooden purlin with screws, limpet washers and putty etc. (up to level-4) all complete and accepted by the Engineer-in-charge.	Sqm	106		
6.4		Supplying and providing of **first aid box** with necessary materials/medicine (hygienic gown, thermometer, adhesive dressings, antiseptic solutions, bandages, cotton balls or swaps, emergency blanket, gloves, hand sanitizer, ice pack, saline etc.), removable sick bed all complete as per direction of Engineer-in charge.	Each	3		
6.5		Providing necessary facilities in construction site for maintaining site safety of 50 nos construction worker including safety helmet (Heavy Type), safety belt, apron, gumboot, goggles , safety shoe etc. all complete as per direction of Engineer-in charge.	Set	3		
6.6		Providing transport facilities for quality control part of project which includes carrying test samples, work samples, report collection, Materials Sample Collection, Factory Visit & emergency services of project including cost of fuel, driver, maintenance etc. all complete and accepted by the Engineer-in-charge. After daily use of the vehicle, certification shall be obtained in the approved register from the authorized Engineer of SPCBL, clearly stating the purpose of vehicle usage. Payment shall be made on a daily basis based on actual vehicle usage duly certified. Fuel, maintenance and any other related costs of the vehicle shall be borne entirely by the Contractor, and no such expenses shall be payable by SPCBL	Per day	180		
6.7		Supply, delivery, installation, testing, and commissioning of a deep tubewell with 400 ft boring, including 340 ft of 160 mm dia Class D heavy-duty UPVC housing pipe (wall thickness 8.8–10.2 mm) with 60 ft UPVC strainer, and 160 ft of 50 mm dia Class C heavy-duty UPVC delivery pipe (wall thickness 2.5–3.0 mm), complete with all high-quality reducers, couplings, bends, valves, and other fittings. The system shall include a 5.5 HP submersible pump of reputed and durable brand (Pedrollo or equivalent heavy-duty model) along with a starter/control panel or control box with overload and thermal protection, submersible cable, guide rope/rail arrangement, and base plate as required. The contractor shall ensure proper alignment, anchoring, installation, testing, and commissioning, and hand over a fully functional, robust, and long-lasting system, clean and ready for operation, to the satisfaction and acceptance of the Engineer-in-Charge, in compliance with all relevant IS/ISO standards.	Job	1		
Sub Total of Part A for General Item=						

PART B. Preliminary Item (Sub Structure & Super Structure Work)						
7.0		**Earth work in excavation** in all kinds of soil for foundation trenches including. layout, providing center lines, local bench-mark pillars, leveling, ramming and preparing the base, fixing bamboo spikes and marking layout with chalk powder, providing necessary tools and plants, protecting and maintaining the trench dry etc., stacking, cleaning the excavated earth at a safe distance out of the area enclosed by the layout etc. all complete and accepted by the Engineer, subject to submit method statement of carrying out excavation work to the Engineer for approval. However, Engineer's approval shall not relieve the contractor of his responsibilities and obligations under the contract.				
7.1		**Layout and marking for earthwork** in excavation in foundation accepted by the Engineer. [Plinth area of the structure shall be considered for measurement]	Sqm	602.78		
7.2		**Earthwork in excavation** in foundation trenches up to 2.5 m depth and maximum 100 m lead: (During the earthwork, if any utility lines such as gas, water, electricity or telephone lines are found, the contractor shall relocate them at his own cost)	Cum	759.01		
8.0		Supplying anti-termite chemicals named DURS BAN 20 EC / equivalent and mixing the same with pure water as per specification in item No. 1 and spraying the emulsified mixture with hand sprayer over both outside and inside back fill in foundation trenches @ 7.50 liters per sqm of the vertical surface area of the foundation wall accepted by the Engineer-in-charge. (The maximum depth of the back fill to be treated is 500 mm. and the measurement for depth should not be given more than 500 mm)	Sqm	984.00		
9.0		**Clearing and disposing of excavated earth** from the construction site by truck or any other means to a place within 30 km radius of the city or town area including loading, unloading at both ends, leveling and dressing the carried earth etc. complete accepted by the Engineer-in-charge..	Cum	759.01		
10.0		**Bailing out trapped water** caused by inundation or rain, by a pump from foundation trenches.	Job	1.00		
11.0		**Palisading work** by supplying bitumen drum sheet walling tied with 20 BWG G.I. wire fixing the same with already driven borrak bamboo posts with half split borrak bamboo runners @ 450mm c/c horizontally with iron nails, G.I wire etc. all complete and accepted by the Engineer-in- charge. (Rate is including the cost of bamboo post).	Sqm	265.00		

12.0		**Sand filling** in foundation trenches and plinth with sand having **F.M. 0.5 to 0.8** in 150mm layers including leveling, watering and compaction to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) by ramming each layer up to finished level as per design supplied by the design office only etc. all complete and accepted by theEngineer-in- charge..	Cum	1289.61		
13.0		Site improvement/earth filling in foundation trenches and plinth with specified soil in/c supplying, carrying, filling by throwing earth in 150mm layers with cuttted 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.	Cum	235.00		
14.0		Earth filling in foundation trenches and plinth in 150 mm layer with earth available within 90 m of the building site to achieve minimum dry density of 95% with optimum moisture content (Modified proctor test) including carrying watering, leveling, dressing and compacting to a specified percentage each layer up to finished level etc. all complete and accepted by Engineer-in-charge.	Cum	120.00		
15.0		**Pile Work**				
15.1		Driving of SPC Piles of Size 450mm dia in soil using Hydraulic Static Pile Driver (HSPD Machine) including handling and installation of pile keeping in position as shown in the drawing, all labors, operators, tools, all equipmentcharges, keeping all measure during driving, keeping driving record & pile capacity records etc. all complete as per drawing, specification & direction of the engineer in charge. Necessary weilding to the pile joint including weilding machine, electrode, all labors, tools etc.	RM	2,838.00		
15.2		Supply PHP Pile Dia 450mm, Wall Thickness+85mm, 10 nos 9mm PC bar with 4.5mm Low Carbon PC Wire as spiral. Concrete grade 50 Mpa. Including 'X' Pointed Pile Shoe.	RM	2,838.00		
15.3		Labour for breaking head of hardened cast in situ bored pile/pre-cast pile up to a required length by any means but without damaging the rest and removing the dismantled materials such as concrete to a safe distance including scraps and cleaning concrete from steel/M.S. rods, straightening and bending of pile bars, preparation and making platform where necessary, carrying, all sorts of handling, stacking the same properly after clearing, leveling and dressing the situ and clearing the bed etc. complete in all respect and accepted by the Engineer-in-charge. (Measurement will be given for the actual pile head volume to be broken)	Cum	43.46		

16.0		**Dismantiling**				
16.1		Dismantling of R.C.C. elements including beams, slabs, lintels, columns, drop walls, and sunshades from any height, including careful dismantling, segregation of serviceable materials, and removal of all debris to a safe distance, complete as per the directions of the Engineer-in-Charge.	Cum	75.00		
16.2		Dismantling of unserviceable or damaged brickwork constructed with cement or lime mortar, having a thickness of 75 mm to 125 mm, in foundation and superstructure, including careful dismantling, cleaning and salvaging of serviceable bricks, transportation of cleaned bricks to the Civil Godown, and removal and disposal of rubbish/debris to the location as directed by the Engineer-in-Charge, complete in all respects.	Sqm	105.00		
16.3		Dismantling and demolition of existing warehouse (godown) shed including steel roof trusses, purlins, columns, profile sheets, and all associated fittings. The work includes careful dismantling of steel members, cutting where necessary, and safe lowering of all materials. After dismantling, all materials shall be properly sorted and segregated item-wise and transported to the designated Civil Godown, where they shall be stacked separately in an organized manner as directed by the Engineer/Client. Removal and cleaning of debris from the site and disposal at an approved dumping location are included. Measurement for payment shall be based on the internal dimensions of the shed only. All works shall be carried out in accordance with standard safety regulations, using required tools, equipment, and manpower, complete in all respects.	Sqm	449.81		
17.0		Mass concrete (1:3:6) in foundation or in floor with cement, sand (F.M. 1.2) and picked jhama brick chips including breaking of chips, screening, mixing, laying, compacting to required level and curing for at least 7 days including the supply of water, electricity, costs of tools & plants and other charges etc. all complete and accepted by Engineer-in-charge. (Cement: CEM-II/B-M)	Cum	57.61		
18.0		One layer of brick flat soling in foundation or in floor with first class or picked jhama bricks including preparation of bed and filling the interstices with local sand, leveling etc. complete and accepted by the Engineer -in-charge.	Sqm	553.76		
19.0		Supplying and laying of single layer polythene sheet weighing one kilogram per 6.5 square meter in floor or any where below cement concrete complete in all respect and accepted by the Engineer -in-charge.	Sqm	954.67		

20.0		Brick works below GB with first class bricks in cement sand (F.M. of sand 1.2) mortar (1:4) in foundation and plinth, filling the joints/interstices fully with mortar, racking out the joints, cleaning and soaking the bricks at least for 24 hours before use and curing at least for 7 days etc. all complete including cost of water, electricity and other charges and accepted by the Engineer -in-charge.	Cum	43.68		
21.0		Reinforced cement concrete works from batch mix with minimum cement content relates to approved mix ratio having minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c =32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 500 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). Mix Design for 1cum fresh concrete under SSD Condition: a) cement OPC=446KG, b) Fine Agregate (Sylhet sand FM>2.20)=610kg, c) Coarse agregate (20mm down stone chips)=1150kg, d) Water (Deep tubewel) approx=200lit, e) Admixture (approx)=3.5kg				
21.1		Pile Cap	Cum	200.14		
21.2		Formwork/shuttering, prop and necessary supports etc. (steel)	Sqm	310.44		

22.0		Grade 500 (B500DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to actual yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.(To be used for pile work, earth retaining wall, boundary wall, water reservoir & other structures as per instruction of concerned design CHAPTER) Brand: BSRM/AKS/GPH/KSRM	Kg	26184.96		
23.0		Reinforced cement concrete works from batch mix/machine mix with minimum cement content relates to approved mix ratio having minimum f'cr = 40.5 MPa, satisfying a specified compressive strength f'c =32 MPa at 28 days on standard cylinders as per standard practice of Code ACI/BNBC/ASTM,Cement conforming to BDS EN-197-1-CEM-I, 52.5N (52.5 MPa) / ASTM-C 150 Type – I,best quality Sylhet sand or coarse sand of equivalent F.M. 2.2 and 20 mm down wellgraded stone chips conforming to ASTM C-33 (Aggregate grading as per table shown in technical specification), High-range water reducing chemical admixture Type-G under ASTM C494(Doses to be applied as per Manufacturer's Guideline), conducting necessary tests, making and placing shutter in position and maintaining true to plumb, making shutter water-tight properly, placing reinforcement in position; using machine batched and machine mixed concrete using cement content as per approved design mix (minimum 500 kg/ cum), including pumping of concrete using line pump or boom placer to site of laying, maintaining allowable slump of 100mm to150mm, casting in forms, compacting by vibrator machine and curing at least for 28 days, removing centering-shuttering after specified time approved; including cost of water, electricity, cost of all materials and other charges etc. all complete, approved and accepted by the Engineer-in-charge. (Rate is excluding laboratory test fees, the cost of reinforcement and its fabrication, placing, binding etc. and the cost of shuttering & centering). Mix Design for 1cum fresh concrete under SSD Condition: a) cement OPC=446kg, b) Fine Agregate (Sylhet sand FM>2.20)=610kg, c) Coarse agregate (20mm down stone chips)=1150kg, d)Water (Deep tubewel) approx=200lit, e) Admixture (approx)=3.5kg				
		Pedestral Column	Cum	881.82		
		Grade Beam				
		Ground Floor				
		Shear Wall				
		Deck Slab				

		Tie Beam				
		False Column & Lintel				
24		Centering and shuttering, including strutting, propping etc. (The Formwork must be rigid enough both in and out of plane, to make the concrete surface true to the designed shape and size by using necessary MS sheets , minimum 16 BWG, angles of minimum size 40 mm x 40 mm X 5 mm, flat bars etc.) and removal of from for:	Sqm	3775.12		
		Pedestral Column				
		Grade Beam				
		Ground Floor				
		Shear Wall				
		Deck Slab				
		Tie Beam				
		False Column & Lintel				
25		Providing and erecting additional staging for centering and shuttering at heights exceeding 12 ft, using quick-lock scaffolding complete with adequate bracing, propping, and strutting to ensure full stability and safety. The staging shall be capable of supporting all centering and shuttering works at increased heights, maintaining the formwork rigid both in-plane and out-of-plane, so that the concrete surface is true to the designed shape and dimensions, and all work shall be executed to the satisfaction and approval of the Engineer-in-Charge.	Sqm	1533.00		
26		Grade 500 (B500DWR: complying BDS ISO 6935-2:2016 / ASTM A615) ribbed or deformed bar produced and marked according to Bangladesh standard, with minimum yield strength, fy (ReH)= 500 MPa and whatever is the yield strength within allowable limit as per BNBC/ ACI 318, the ratio of ultimate tensile strength fu to actual yield strength fy, shall be at least 1.25 and minimum elongation after fracture and minimum total elongation at maximum force is 17% and 8% respectively : up to ground floor.(To be used for pile work, earth retaining wall, boundary wall, water reservoir & other structures as per instruction of concerned design CHAPTER) Brand: BSRM/AKS/GPH/KSRM				
		Pedestral Column	Kg	108927.56		
		Grade Beam				
		Ground Floor				

		Shear Wall				
		Deck Slab				
		Tie Beam				
		False Column & Lintel				
27.0		38 mm thick artificial patent stone (1:1.5:3) flooring with cement, best quality coarse sand (50% quantity of Sylhet sand or coarse sand of equivalent F.M. 2.2 and 50% best local sand of FM 1.2) and 12 mm down well graded stone chips, laying the concrete in alternate panels, compacting and finishing the top with neat cement and curing at least 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer - in- charge.	Sqm	1553.00		
28.0		Average 100 mm thick finished lime terracing with 20 mm downgraded first class brick chips (khoa), surki from 1st class bricks and minimum lime content 500 kg per 2.83 cubic meter (stone lime brought at site, not being powdered in open air and to be slaked in presence of engineer-in-charge and to be measured in volume three days after slaking for using in the mix) in the proportion 7:2:2 (brick chips:surki: lime) including preparation of the mix on the ground by making a suitable platform under proper polythene cover. Cutting the mix twice daily with limewater (1:10) at least for 7 days until the mix attain desirable consistency. Laying the mix in proper slope, beating the same with standard 'koppa' for minimum 7 days to gain maximum consolidation, making ghoondy and neat finishing with lime Surki mortar (1:2) and curing for 21 days providing polythene cover after each day work and cleaning etc. complete in all respect accepted by the Engineer-in-charge.	Cum	55.50		
29.0		Providing compacted sub-base course with well graded material of crushed well burnt picked jhama / 1st class brick bats and sand (FM 0.8) with mixing proportion 2 : 1 having compacted thickness made as per specification including local handling, spreading uniformly to proper grade camber and super elevation, packing, rolling properly with 8 to 10 ton capacity power driven road roller and watering properly for compaction of 100% MDD (standard) blinding with sand including cost of fuel, lubricants, spares, maintenance, driver etc. all complete and accepted by the Engineer-in-charge.	Cum	155.00		

30.0		Conducting static load test as per ASTM D1143 or equivalent standard for the pre-cast pile providing required scaffolding, bracing, jacks, pressure test gauge, loading unloading, Kentledge and other plants and equipment including staging, mobilization, demobilization, hire charge, gunny bags, sand and filling sacs/gunny bags for loading, record readings and preparation of results in standard forms and other incidental charges as per standard practice and procedures including submission of load test report, furnishing all graph and chart etc. complete in all respect approved and accepted by the Engineer-in-charge (Minimum two cyclic loading; one at service load and another cycle at double the service load then to continue loading till failure of the pile). Before commencing load test, contractor shall submit method statement for conducting load test to the Engineer-in-charge for approval. However, Engineer's approval shall not relieve the Contractor of his responsibilities and obligations under Contract. Load test and report shall be conducted under the supervision of a professional Geotechnical Engineer registered in BPERB or Geotechnical firm registerd in PWD. Boring and pouring logs / driving logs of piles and method statement shall be the part of load test report.	Per Test	2.00		
31.0		250mm thick brick works (for exterior wall without outside plaster) **with automatic machine made first class bricks**, very carefully laid in cement sand (F.M. 1.2) mortar (1:4)) in superstructure with uniform width and depth joints, true to vertical and horizontal lines including raking out joints scaffolding, soaking the bricks at least for 24 hours before use, washing and screening of sand. Curing at least for 7 days and high class flush pointing with cement sand (F.M. 1.2) mortar (1:1) including cost of water, electricity and other charges etc all complete and accepted by the Engineer -in-charge. Brick Brand: Mirpur Ceramic	Cum	629.16		
32.0		125 mm thick brick work with automatic machine made first class bricks with cement sand (F.M. 1.2) mortar (1:4) and making bond with connected walls including necessary scaffolding, raking out joints, cleaning and soaking the bricks for at least 24 hours before use and washing of sand, curing at least for 7 days in all floors including cost of water, electricity and other charges etc. all complete and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M) In Toilet Wall & Parapet Wall. Brick Brand: Mirpur Ceramic	Sqm	166.55		
Sub Total of Part B for Preliminary Item (Sub Structure & Super Structure Work)=						

PART C. Finishing Item						
		Plaster, Floor Finish & Others				
33.0		Minimum 12 mm thick cement sand (F.M. 1.2) plaster (1:4) with fresh cement to wall both inner-and outer surface, finishing the corner and edges including washing of sand cleaning the surface, scaffolding and curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. (Cement: CEM-II/A-M). All floor. Cement Brand: Crown/Holcim/Supercerete	Sqm	5082.95		
34.0		Flush pointing to brick wall with cement sand (F.M. 1.2) mortar (1:2) with cement including raking out the joints, and necessary scaffolding curing at least for 7 days, cost of water, electricity and other charges etc. all complete in all respect as per drawing and accepted by the Engineer-in-charge. Cement Brand: Crown/Holcim/Supercerete	Sqm	1880.39		
35.0		Supplying, fitting and fixing window grill made of 12 mm x 12 mm M.S. solid bar 140mm c/c with outer frame of 38 mm x 6mm F.I. bar as per design approved and accepted by the Engineer-in-charge. BSRM/Equivalent	Sqm	16.15		
36.0		Supplying, fitting and fixing of aluminium sliding window as per the U.S. Architectural Aluminium Manufacturer‟s Association (AAMA) standard specification and BDS 1879:2014 having 1.2 mm thick outer bottom (size 75.50 mm, 32mm), 1.2 mm thick outer top (size 75.50 mm, 16.80 mm), 1.2 mm thick shutter top (size 33 mm.26.80, 22 mm), 1.2 mm thick shutter bottom (size 60mm, 24.40 mm), 1.2 mm thick outer side (size 75.50 mm,19.90 mm), 1.2 mm thick shutter lock (size 49.20 mm 26.20 mm) and 1.2 mm thick inter lock (size 34.40 mm, 32.10 mm) sections all aluminium members (total weight kg/sqm) will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc. including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 5 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge, Brand: Chung Hua Aluminium/Equivalent.	Sqm	16.15		
37.0		Supplying, fitting and fixing in windows distortion free glass of approved quality and shade including cost of fitting fixing all necessary accessories etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. 6 mm thick clear glass; Brand: Nasir Glass/Equivalent	Sqm	16.15		

38.0		Supplying, fitting and fixing country made floor tiles complying BDS ISO 13006: 2015, water absorbtion ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with adhesives in full thickness of tiles, filler/tiles grout including cutting, shaping, placing in proper level etc. all complete and accepted by the Engineer-in-charge. Toilet Floor - 300mmX300mm. Brand: RAK/Mir/Equivalent.	Sqm	12.78		
39.0		Supplying, fitting and fixing country made rustic or matt finished stair tiles complying BDS ISO 13006: 2015, water absorbtion ≤ 0.5%, modulus of rupture (MOR) ≥ 27 N/mm2, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. **Rustic stair tiles** of size 300 mm x 600 mm. Brand: RAK/Mir/Equivalent.	Sqm	281.63		
40.0		Supplying, fitting and fixing country made glazed wall tiles complying BDS ISO 13006: 2015, irrespective of color &/or design, with 20 mm thick cement sand (F.M. 1.2) mortar (1:3) base and raking out the joints with white cement including cutting, laying and hire charge of machine and finishing with care etc. including cost of water, electricity and other charges complete in all respect and accepted by the Engineer-in-charge. Wall tiles less than, equal or equivalent to 250 mm x 300 mm in sizes. Brand: RAK/Mir/Equivalent.	Sqm	16.57		
41.0		Application of 02 coats of self leveling PU compound (5 mm thick) as base coat & finishing coat over a single layer of screed coat (primer) for making smooth floor surface; all chemicals delivered from authorized local agent of the manufacturer in sealed container; materials having high water resistance, high bondibility, flexibility property; applying by applicator machine after being mixed by force action mixer elapsing time for drying; surface preparation including surface cleaning from dust, oil or dirt, preparing underlying surface having minimum moisture content, smoothening, finishing & polishing by grinding machine & necessary tools, repairing significant ups/downs in floor before application with scaffolding, testing charges etc. all complete in all floors approved & accepted by the Engineer. Brand: Berger Fosroc/Equivalent.	Sqm	1403.60		
42.0		Enamel paint best quality and colour delivered from authorized local agent of the manufecturer (berger robbialac supergloss synthetic enamel or equivalent brand) in a sealed container having high water resistant, high bondibility, flexible property, using specified brand thinner applying to metalic or wooden surface by brass/ roller /spray machine in 2 coats over single coat anti corrosive coating including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors accepted by the Engineer-in-charge. Brand: Berger/Jotun/Equivalent.	Sqm	16.15		

43.0		Interior plastic paint (plastic or matt finish) of approved best quality and colour delivered from athurized local agent of the manufacturer in a sealed container, applying to interior wall and ceiling with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked & scaled materials, fungus, mending good the surface defects, using sand paper and necessary scafolding, applying 1 coat of interior sealor of specified brand on prepared surface, then applying 1 coat of interior putty of specified brand for leveling, spot filling, crack filling and cutting by sand paper / zero water paper, finally applying 2 coats of interior emulsion paint by spreading with brush/ roller/ spray machine & necessary scafolding etc. up to desired finishing, elapsing specified time for drying or recoating,all complete in all floor and accepted by the Engineer-in-charge. Brand: Berger Easy Clean/Jotun/Equivalent.	Sqm	5082.95		
44.0		Exterior premium acrylic emulsion paint of approved best quality and colour with high performance against dirt picking tendency and efflorance resistence properties along with water resistance properties against fungi, fading, and flacking from athorized local agent of the manufacturer (berger weather coat antidirt long life or equivalent brand) in a sealed container, applying to exterior surface with surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked & scaled materials, fungus, mending good the surface defects, using sand paper and necessary scafolding, applying 1 coat of exterior sealor of specified brand on prepared surface, then applying 1 coat of exterior putty of specified brand for leveling, spot filling, crack filling and cutting by sand paper / zero water paper, finally applying 2 coats of exterior emulsion paint by spreading with brush/ roller/ spray machine & necessary scafolding etc. up to desired finishing, elapsing specified time for drying or recoating,all complete in all floor and accepted by the Engineer-in-charge. Brand: Berger/Jotun/Equivalent.	Sqm	540.40		
45.0		Silicon based water repellent of approved quality delivered from authorized local agent of the manufacturer in a sealed container; surface preparation including cleaning, drying, making free from dirt, grease, wax, removing all chalked and scaled materials, fungus, mending good the surface defects using sand paper and necessary scaffolding; applying 3 coats of silicon based water repellent on exposed brick surface/fair face surface spreading by brush/roller/spray & necessary scaffolding etc. up to desired finishing, elapsing specified time for drying or recoating; all complete in all floors and accepted by the Engineer-in-charge. Brand: Berger/Jotun/Equivalent.	Sqm	4397.02		

46.0		Supplying, fitting & fixing stair railing of any standard height with 20 mm dia 2 mm thick SS pipe vertically @ 100 mm c/c fitted with 38 mmx 4 mm thick SS bar top & bottom & 50 mm x 50 mm x 6 mm thick SS box post @ +_ 2400 mm c/c vertically, 62 mm dia with 3 mm thick SS pipe handrail fitted with 40 mm dia post @ 2400 mm c/c in /c necessary fittings 100 mm x 100 mm x 6 mm SS base plate, 12 mm dia hilti bolt (4 nos each base plate), carrying, polishing, fabricating bend, screws including cutting grooves in concrete, mending good the damages with cement concrete (1:2:4), etc all complete in all respect as per design, drawing & direction of the Engineer -in-charge. (Exposed area of railing will be considered for measurement & sample of all SS materials should be approved by the owner). Brand: Steeltech/Equivalent.	Sqm	325.28		
47.0		Supplying, fitting and fixing 12 mm thick plain fire rated gypsum board ceiling (Drop/ Plain) (size 1200 mm x 2400 mm), framing by aluminium/ powder coated aluminium any colour T-bar of natural anodized finish suspended in 600 mm x 600 mm grid from ceiling by 12 SWG double ply wire, fixed to the ceiling by rowel plug, screws, hooks, nails etc., maintaining straight lines and desired finished level at bottom face including vertical wooden strut as required, making holes in slabs or beams by electric drill machine and mending good the damages, if any during execution of the work, including making provisions for lighting arrangement, also including cost of all materials, electricity, accessories, scaffoldings, labour for installation, screws, nails, etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Measurement will be taken as per finished surface area.	Sqm	1403.60		

48.0		Supplying, fitting and fixing of aluminium fixed composite Partition Wall as per the U.S. Architectural Aluminium Manufacturer‟s Association (AAMA) standard specification and BDS 1879:2014 having 1.2 mm thick outer bottom (size 75.50 mm, 32 mm, 0.695 kg/m), 1.2 mm thick outer top (size 75.50mm, 26.80 mm, 0.78 kg/m), 1.2 mm thick shutter top (size 33 mm, 26.80 mm, 0.536 kg/m), 1.25 mm thick shutter bottom (size 60 mm, 24.40 mm, 0.736 kg/m), 1.2 mm thick outer side (size 75.50 mm, 19.90 mm, 0.616 kg/m), 1.2 mm thick sliding fixed side (size 31 mm, 26 mm, 0.422 kg/m), 1.2 mm thick shutter lock (size 49.20 mm, 26.20 mm, 0.661 kg/m), 1.2 mm thick inter lock (size 34.40 mm, 32.10 mm 0.665 kg/m) 1.2 mm thick bottom cover (size 37.78 mm, 31.78 mm, 0.313 kg/m), 1.2 mm thick grouve cover (size 76.20 mm, 38.10 mm, 0.912 kg/m), 1.2 mm thick grouve cover (size 57.15 mm, 15.80 mm, 0.452 kg/m) and 1.2 mm thick top and side (size 76.20 mm, 38.10 mm, 0.3 kg/m) sections all aluminium members (total weight 12.297 kg) will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25 microns in thickness and density of 4 mg per square cm etc.including all accessories like sliding door key lock, sliding door wheel, sliding door mohiar, sliding door neoprene, bolts and nuts including sealants, keeping provision for fitting 6 mm thick glass including labour charge for fitting of accessories, making grooves and mending good damages, carriage, and electricity complete in all respect as per drawing and accepted by the Engineer-in-charge.Size up to: 1500 mm x 2100 mm. Brand: Chung Hua Aluminium/Equivalent.	Sqm	81.78		
49.0		Supplying fitting and fixing of aluminium swing door with spandrel as per the U.S.Architectural Aluminium Manufacturer‟s Association (AAMA) standard specification and BDS 1879:2014 having 1.8 mm thick wall frame (size 101.60 mm, 44.45 mm, 83.21 mm), 2.33 mm thick shutter (size 54 mm, 46 mm), 0.99 mm thick door glass bit (size 16.54 mm, 14.49 mm, 0.115 kg/m), 2.5 mm thick clousure section (size 101.60 mm, 42.93 mm,1.2mm), 106.60 mm clousure cover (0.45 kg/m), 4 mm thick floor bottom (size 101.60 mm, 12.70 mm, 1 kg/m), 1.8 mm thick shutter bottom (size 82.6 mm, 43.99 mm, 0.60 kg/m), 1.8 mm thick shutter top (size 51 mm, 43.99 mm, 1.88 kg/m) and 2.3 mm to 4.01 mm thick handle (size 101.60 mm, 38.10 mm, 25.40 mm short, 1.35 kg/m) section of all aluminum members will be anodized to aluminium bronze/silver/ss/black colour with a coat not less than 15 microns in thickness or powder coated to any colour with a coat not less than 25microns in thickness and density of 4 mg per square cm etc. including all accessories like swing door clousure, swing door lock, swing door mohiar, labour charge, fabrication, fitting fixing in position, carriage and electricity charge keeping provision for fitting 5 mm thick glass including neoprene sealant etc. complete in all respect as per drawing and accepted by the Engineer-in-charge. (Total weight min 23 kg/m2) Brand: Chung Hua Aluminium/Equivalent.	Sqm	10.52		

50.0		Supplying, fitting, fixing and installation of ordinary type M.S. gate (Sliding) of any design and shape with 38 mm x 38 mm x 6 mm M.S. angle box (made by welding 2 nos. 38 mm x 38 mm x 6 mm angle) outer frame having 25 mm x 50 mm x 25 mm x 5 mm M.S. channel (made by welding 2 nos. of channel) placed part diagonally after cutting and shaping as per requirement, part horizontally @ 75 mm c/c, the two part of each leaf being separated by a vertical member of 38 mm x 38 mm x 6 mm M.S. box and welded the each ends of diagonal and horizontal members properly with the box frame as per architectural drawing providing full locking arrangement on 3 mm thick M.S. plates providing 38 mm x38 mm x 6 mm M.S. angle clamps, fitting fixing with the outer frame of the gate, the clampbeing embedded in R.C.C. pillars with cement concrete (1:2:4) including. cutting holes and mending good the damages, finishing, curing and where necessary painting two coats with approved quality of synthetic enamel paint over a coat of priming of anticorrosive paint etc. all complete including making and providing 50 mm x 6 mm M.S. rail and 38 mm wheel for smooth movement of the gate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Brand: BSRM/Equivalent	Sqm	8.64		
51.0		Supplying, fitting, fixing and installation of ordinary type M.S. gate (Single leaf) of any design and shape with 38 mm x 38 mm x 6 mm M.S. angle box (made by welding 2 nos. 38 mm x 38 mm x 6 mm angle) outer frame having 25 mm x 50 mm x 25 mm x 5 mm M.S. channel (made by welding 2 nos. of channel) placed part diagonally after cutting and shaping as per requirement, part horizontally @ 75 mm c/c, the two part of each leaf being separated by a vertical member of 38 mm x 38 mm x 6 mm M.S. box and welded the each ends of diagonal and horizontal members properly with the box frame as per architectural drawing providing full locking arrangement on 3 mm thick M.S. plates providing 38 mm x38 mm x 6 mm M.S. angle clamps, fitting fixing with the outer frame of the gate, the clamp being embedded in R.C.C. pillars with cement concrete (1:2:4) including. cutting holes and mending good the damages, finishing, curing and where necessary painting two coats with approved quality of synthetic enamel paint over a coat of priming of anticorrosive paint etc. all complete including making and providing 50 mm x 6 mm M.S. rail and 38 mm wheel for smooth movement of the gate etc. all complete as per drawing, design and accepted by the Engineer-in-charge. Brand: BSRM/Equivalent	Sqm	2.21		

52.0		Supplying, fitting, fixing of uPVC hollow or solid plastic door shutter (including frame) having specific gravity of 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. SS hinges by min 64 Nos. Ø 3.17 mm and 3.97 mm 12.7 mm long rivets, 12 nos. 25.4 mm SS screws, Ø 9.38 mm, 150 mm long SS tower bolts 2 nos., 146 mm SS handle by rivet 2 Nos., G.I inner joint, 234.95 mm x 127 mm clamp, 76.2 mm x 57.15 mm, 25 mm dia 1 no ss haspbolt, special type round lock, carrying the same to the site and local carriage etc. complete in all respect and accepted by the Engineer-incharge. Brand: Lira/Cosmic/Equivalent	Sqm	3.15		
53.0		Manufacturing supplying, fitting and fixing of louver made with 16 gauge thick 50 mm x 50 mm SS hollow box as outer frame, 16 gauge thick 50 mm x 38 mm SS hollow box as pannel frame and 18 gauge thick 50 mm x 12 mm SS hollow box as louver with 150 mm long 12 mm dia SS handle, 300 mm long 20 mm dia ss hasp bolt, 100 mm hings etc, comple in all respect and accepted by the Engineering-in-charge.	Sqm	1.44		
Sub Total of Part C for Finishing Item =						
PART D. Steel Structure						
54.0		Supply of galvanized anchor bolts of variable dia for rigid frame conforming to ASTM F1554 Grade 55, Galvanized to A153, Class C or equivalent with minimum yield strength of 380 MPa, manual of steel construction by American Institute of Steel Construction (AISC) etc. including the cost of washer & bolts, material testing etc. all complete as per drawing, specification and direction of the Engineer-in-charge.	Kg	1199.78		
55.0		Supply, fabrication of built-up sections i.e. columns, beams, bracings, Stair etc from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	315972.14		
56.0		Supply, fabrication of built-up sections i.e. columns, Rafter, bracings, Profile Sheet, Purlin,Stringer,Checker Plate, Nut Bolts etc for **Emergency Stair** from steel plates conforming to ASTM A36, with a minimum yield strength of 250 MPa, including the cost of testing of plates, application of red/grey-oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	39540.04		

57.0		Supply of connection bolts of variable diameter with nut and washer according to "ASTM A325 Type 1 or equivalent" with Fu =720 Mpa, including the cost of testing of bolts, all complete as per drawing, specification and direction of Engineer-In-Charge.	Kg	6319.44		
58.0		Supply of 0.70 mm thick galvanized decking panel according to ASTM A653, with minimum yield strength of 345 MPa, testing of materials etc. all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	14249.96		
59.0		Fabrication & Supply of 75mm Thickness EPS -Sandwich Panel for Roof (Top & Bottom Sheet 0.50mm Thick, Width 1000mm) Pre Painted Zinc Alum (Made in Japan)	Sqm	415.59		
60.0		Fabrication & Supply of 50mm Thickness EPS -Sandwich Panel for Roof (Top & Bottom Sheet 0.50mm Thick, Width 1000mm) Pre Painted Zinc Alum (Made in Japan)	Sqm	275.29		
61.0		Fabrication & Supply of Aluminium U Channel , Angle & T. PPGI Corner Capping. Apply of Silicon Gum	Sqm	172.72		
62.0		Supply 75 mm Screw (Hot Dip Galvanize	Pcs	929.23		
63.0		Supply of SS Star Screw , Revit 3.2mm, Cutting Disc 4"	Sqm	690.88		
64.0		Erection of EPS Sandwich Panel for Roof & Wall	Sqm	690.88		
65.0		Supply and installation of GI purlin & girt of any size conforming to "ASTM A653" grade 45, with a minimum yield strength of 310 MPa, including the cost of testing of materials, all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	3581.63		
66.0		Supply and fixing of sag rod conforming to grade 40, with a minimum yield strength of 275 MPa, including the cost of making threads, nuts and washers, red oxide primer etc. all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	61.98		
67.0		Supply and fixing of 16mm dia cable/wire bracing conforming to "ASTM A475" with a minimum yield strength of 119.3 MPa, with I-bolt and hill side washer, all complete as per drawing, specification and direction of Engineer-in-charge	RM	171.71		

68.0		Supplying of shear stud of variable dia conforming to ASTM A108 or equivalent with minimum yield strength of 275 MPa, including the cost testing, welding etc. all complete as per drawing, specification and direction of Engineer-in-charge.	Kg	861.26		
69.0		Premium Synthetic Enamel paint of approved best quality and colour delivered from authorized local agent of the manufacturer(Berger robbialac supergloss synthetic enamel or equivalent brand) in a sealed container, having highly water resistant, high bondibilty, flexiblity property; using specified brand thinner applying to metallic surface by spray in two coats over single coat anticorrosive coating including cleaning drying, making free from dirt, grease, wax, removing all chalked and scaled materials, all complete in all floors accepted by the Engineer-incharge. (payment shall be made on strucutral steel weight basis)	Kg	355512.18		
70.0		Supply and pouring of non-shrink grout to steel column bases conforming to ASTM C 109 having compressive strength not less than 45 MPa, including the cost of shutter and necessary accessories, all complete as per drawing, specification and direction of Engineer-in-charge.	Pcs	26.00		
71.0		Fasteners/Screw, **Origin: China Prime Imported heavy duty Hex head self taping screws with new prime washer Origin: China/Taiwan	Pcs	9575.86		
72.0		Transport Factory to Site with loading Unloading	Kg	381903.87		
73.0		Erection Charge for Pre-engineered welded steel Column, Beam, Sub beam etc. Fitting & fixing charge.	Kg	381903.87		
Sub Total of Part D for Steel Structure Item =						

PART E. MEP Work

E.01. Internal & External Electrical Work						
		Surface Wiring				
74.0		Surface conduit wiring with the following PVC insulated and sheathed cable (BYA) & Green / Yellow bi-colour PVC insulated ECC wire (BYA) through PVC conduit (If necessary) of reputed manufacturer complete with 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC/ BS/ VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1 of PWD SoR. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge				
74.1		1C-2x1.5sqmm (BYA) cable with 1.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 20 mm having wall thickness of 1.5 mm. (Above False Ceilling)	RM	2860		
74.2		1C-2x2.5 sqmm (BYA) cable with 2.5 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm (UPS and CKT TO LIGHT SB)	RM	495		
74.3		1C-2x4.0 sqmm (BYA) cable with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.7 mm (FOR PS & SB)	RM	550		

75.0		Surface conduit wiring with the following PVC insulated and sheathed stranded cable (NYY) / XLPE insulated and PVC sheathed stranded cable (2XY) & PVC insulated Green / Yellow bi-colour. ECC wire (BYA) through PVC conduit (If necessary) of reputed manufacturer complete with fixing materials, other accessories etc. as required including mending the damages good. All electrical contacts shall be of brass/copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC/BS/VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge. Cable manufacturer(s) must have valid type test certificate (within last seven years) from internationally accredited laboratory (like CPRI, KEMA etc.) accepted / approved by the Engineer In Charge				
75.1		1C-4x35sqmm (NYY/2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 50 mm having wall thickness of 2.5 mm (MDB TO SDB GF FF & 2F FLOOR)	RM	121		
75.2		1C-4x6sqmm (NYY/2XY) with 6 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm (HVAC DB TO AHU -1,2,3,4,5,6, SDB to DB)	RM	220		
75.3		11C-4x25 sqmm (NYY/2XY) with 16 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 50 mm having wall thickness of 2.5 mm (LIFT CABLE)	RM	110		
75.4		1C-4x95 sqmm (NYY/2XY) with 50 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 75 mm having wall thickness of 3 mm (SDB TO CHILLER 1 &2)	RM	78		
75.5		1C-1x150 sqmm (BYA LF) wire through Cable Tray. (ECC To Chiler 1 & 2)	RM	176		
75.6		1C-4x4sqmm (NYY/2XY) with 4 sqmm (BYA) ECC wire through PVC pipe of minimum inner dia 30 mm having wall thickness of 1.9 mm (MDB TO Pump)	RM	100		

76.0		PVC PIPE Providing & laying of following PVC pipe (best quality PVC pipe of reputed manufacturer) embedded in wall / column / ceiling / floor etc. with all accessories, 18 SWG GP sheet pull box with 3 mm thick ebonite sheet cover, fixing materials etc. as required including mending the damages good.				
76.1		Minimum inner dia 100 mm &minimum wall thickness 3.4mm	RM	210		
76.2		Minimum inner Dia 25mm & minimum wall thickness 1.7mm	RM	880		
76.3		Supply and fitting of GI PIPE with Necessary Accessories 25 mm Dia For False Ceiling To Switch Board & Power Socket	RM	220		
77.0		Boards & Controls				
		THREE PHASE DISTRIBUTION BOARD (TPDB) Providing and fixing three phase distribution board (TPDB) [concealed In surface] having the following components and specifications: I. Steel Board MS sheet: 18 SWG with hinged type door and locking arrangement duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray I off-white) etc. In front side there will be tempered thick fiber glass of minimum 8 mm thickness with rubber gaskets to observe the inside arrangement. Approved by Engineer in Charge				

77.1		800-A TPDB (MDB) Incoming : i) 800 Amp ACB (42ka). Made by USA/UK/Europe or Equivalent Outgoing: Made by USA/UK/Europe or Equivalent ii) 630 Amp ACB (42ka) -1Nos. Made by USA/UK/Europe iii) 100A MCCB (Adj. 36ka)- 5 Nos. Made by USA/UK/Europe iv) 32Amp MCCB -3 Nos. Made by USA/UK/Europe v) 16 A MCCB-1 Nos. Made by USA/UK/Europe vii) Loop Cable & Cable Lug-1Lot (Flexible & NYY With Heat Sink) viii) Copper Busbar: 04 nos 18"x2"x10mm RYB+N & 1 no 4"x2"x10mm For ECC-1Set. With Digital Multi-Function Meter And Necessary Accessories Like Supporter, Louver, Panel Lock Etc.	Each	1		
77.2		630-A TPDB (HVAC-DB) Incoming : i) 630 Amp ACB (42ka) -1Nos. Made by USA/UK/Europe Outgoing: i) 200A MCCB (Adj.)-2-Nos. Made by USA/UK/Europe ii) 63A MCCB (Adj. 36ka)-3 Nos. Made by USA/UK/Europe iv) 32Amp MCCB -6 Nos Made by USA/UK/Europe v) 16 A MCCB-2 Nos. Made by USA/UK/Europe vii) Loop Cable & Cable Lug-1Lot (Flexible & NYY With Heat Sink) viii) Copper Busbar: 4 nos 18"x2"x10mm RYB+N and 1 no 4"x2"x10mm For ECC-1Set. With Digital Multi-Function Meter And Necessary Accessories Like Supporter, Louver, Panel Lock Etc.	Each	1		
77.3		100-A TPDB (Ground Floor, First Floor & Second Floor) Incoming : i)100A MCCB (Adj. 36ka)- 01 Nos Made by USA/UK/Europe Outgoing: i) 10Amp SP MCB (C-Carve)-18 Nos. Made by USA/UK/Europe ii) Loop Cable & Cable Lug-1Lot (Flexible With Heat Sink) iii) Copper Busbar 20X4 mm RYB+N & 20x4 MM For ECC-1Set. With Digital Multi-Function Meter And Necessary Accessories Like Supporter, Louver, Panel Lock Etc.	Each	3		
77.4		4KW Dol Stater For Water Supply Pump With Water Level Control System (Automatic Run) Main Incomming :16Amp MCB-1 Nos Magnetic ontactor With Thermal Overload Switch. & Motor Control Box With Necessary Item Control Cable Etc.	Set	1		

77.5		DB: Supply and installation of 18 SWG metal board Distribution board coupling with Sensor door housing 02 nos 30-60A Magnetic Contactor and SPMCBs with proper fittings, wiring and Support as per direction of Engineer in Charge	Set	3		
78.0		Supply, Installation and commissioning of CT PT For Each Distribution Board With Digital Multi-Function Meter	Set	5		
79.0		BOARD Supplying and fixing of almirah type 18 SWG metal board of depth 228mm (6") duly painted with powder coating with epoxy polyester resin on all surfaces of board (gray / off-white) having built in push type / suitable locking arrangement including metal bridges of suitable size for fixing of all electrical control devices complete with suitable anchoring arrangement in wall / column and keeping provision for cable inlets and exits as required (only front surface of the board will be considered for measurement) accepted/approved by the Engineer-in-charge. G.P. Sheet Board : Supplying & Fixing of pedestal type 18 SWG G.P. sheet board of 76.2 mm (3") depth (with open front) duly painted inner & outer surfaces with gray enamel paint, anchoring arrangement to be fitted in wall (only back surface of the board will be considered of measurments)	Sqmm	38.5		
80.0		UNIVERSAL COMBINED SWITCH SOCKET OUTLET (SURFACE/CONCEALED TYPE) Providing & fixing 250 volt single phase universal combined switch socket outlet (surface / concealed type) Manufactured/ Assembled and tested in accordance with IEC / VDE / NEMA / BS / JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet board / plastic board (self-extinguishing 650 degree centigrade) of 76.2 mm. (3") depth. Sample to be approved by the Engineer-in-charge. Manufacturer shall have certificate of standard which they follow. I) 13/15/16/20 Amps Assembled and made in BANGLADESH/CHINA/INDIA/TURKEY/VIETNAM	Each	47		
81.0		GANG SWITCH. Providing & fixing 250 volts. 5 / 6 amps (minimum) concealed type following switch / switch socket Manufactured / Assembled and tested in accordance with IEC / VOE /EMA /BS /JIS along with relevant BDS IEC standards mounted on required size 18 SWG galvanized plain sheet / PVC board (Self-extinguishing 650 Degree Centigrade) of 76.2 mm (3") depth. AII electrical contacts shall be of brass / copper. Assembled and made in BANGLADESH/CHINA/INDIA/TURKEY/VIETNAM				
81.1		Four Gang Switch	Each	55		

81.2		MK BOX (Hot Deep Galvanized & Good Finished Quality) i) 4Way-60Pcs & 2Way-5 Pcs (HATIM BD) ii) 1 Way For Power Socket-42 Pcs	Each	121		
82.0		Earthing: Earthing the electrical installation with 40 mm (1.5") Dia. G.I. pipe (earth electrode) having 6.35 mm. Dia. hole across the pipe at 305 mm. interval securely bonded by soldering with 2 nos. of No-2 SWG HDBC earth leads (at the top of the electrode) with its protection by 20 mm. (3/4") Dia. G.I. pipe up-to plinth level run at a depth of 609.6 mm (2 ft..) below G.L up-to main board to be earthed including necessary connecting copper sockets, bolts, nuts, etc. complete for maintaining earth resistance within 1 ohm.				
82.1		Depth of bottom of main electrode at 12954 mm. (42.5 ft.) from GL & length of electrode 12192 mm. (40 ft.) (For 10Kva Online UPS)	Each	1		
82.2		Depth of bottom of main electrode at 31242 mm. (102.5 ft.) from GL & length of electrode 30480 mm. (100 ft.).	Each	4		
83.0		Construction of earthing inspection pit Construction of earthing inspection pit inside measurement 600 mm x 600 mm with 250 mm thick brick in cement mortar (1:4) with 100mm thick RCC top slab (1:2:4) with 1% re-enforcement 450 mm Dia. water sealed CI man-hole cover with locking arrangement including necessary earth works, site filling and one brick flat soling 75 mm thick (1:3:6) base concrete for making inlet channel & 12mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of .75 meter.	Each	5		
84.0		SPOT/PANEL LED LIGHT FITTINGS: Supply & Fixing spot/panel LED Light fittings of following specification: Luminous efficacy: i) For spot/ Bracket LED Light Fittings: 80 Lm/W (Min) ii)For panel / Tube Light Fittings : 100 lw/W (Min) Power Factor: Minimum-0.95 Colour Rendering Index (Ra≥80 i) For residential Building RA≥80 ii) For Office and other types of building 70<Ra<85 Driver : Should be of IEC Standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS)/CREE/BRIDGELUX or equivalent. Colour Temperature: 3500K-6500K (Warm White) Model & Sample to be accepted/approved by the Engineer-in-Charge (With 2 Year Warranty)				

84.1		Squre panel Dia 600x600mm Material:Aluminum alloy Acrylic Gloria-Cat No- CPL-703 Energy+ EPTLLED-2001/2002 Cosmo Cat No .BDTCL-LPL-01 Asha Cat no-ACS-LTLS-1651 Adex cat no -ADPLS-36W 840 Walton: WLED-PL-ECO Megaman-MQL1030 or equivalent. I) 36W	Each	154		
85.0		SPOT/PANEL LED LIGHT FITTINGS: Supply & Fixing spot/panel LED Light fittings of following specification: Luminous efficacy: i) For spot/ Bracket LED Light Fittings: 80 Lm/W (Min) ii)For panel / Tube Light Fittings : 100 lw/W (Min) Power Factor: Minimum-0.95 Colour Rendering Index (Ra≥80 i) For residential Building RA≥80 ii) For Office and other types of building 70<Ra<85 Driver : Should be of IEC Standard such as MEANWELL/OSRAM/ENERGY+/SIGNIFY(PHILIPS)/CREE/BRIDGELUX or equivalent. Colour Temperature: 3500K-6500K (Warm White) Model & Sample to be accepted/approved by the Engineer-in-Charge (With 2 Year Warranty)				
85.1		Material: Alu alloy,AcrylicGloria Cat no -GSDL-514Energy + cat NO-EPPLLED-2005Cosmo Cat No-BDTCL-LSSPL-01Adex-AD SDL 830/840/865Asha cat no-ACS LPL -1460Megaman-MXTL 1013-F-PSWalton:WLED-DSPLS-225-U lor equivalentSquare panel light fittings.A)24W, 300x300mm	Each	24		

86.0		FLOOD LIGHT FITTINGS (LED) Supply & Fixing LED Flood Light fittings of following specifications: Luminous efficacy:100lm/W (minimum) Power factor:0.95 Colour Rendaring Index (ra) : 70<ra<85 Driver: Should be of IEC Standard such as MEANWELL/OSRAM/ ENERGY+/SIGNIFY (PHILIPS) or equivalent LED chips : EPISTAR / OSRAM / GREE/ BRIDGELUX or equivalent colour temperature:3500k-6500k (Warm White) Material: Aluminum aloy Aluminum reflector, Head proof glass/ Polycarbonet Model & sample to be accepted approved by the engineer-in-charge (With two year warrenty)				
86.1		200 WGloria Cat no-GLFL-911ENERGY + model no - EPFDL- 17011/ 200 WCosmo cat no-BDTCL-BFDL-03Adex-AD FLE 200W865Asha Cat no-ACS-LFL-2160 (200 watt)Crescent cat no-CFLD-024-200 Wor equivalent.	Each	8		
87.0		Exhaust Fan: Providing and fixing of following axial flow A.C capacitor type wall mounted exhaust fan complete with blade, steel frame standard wall louver shutter, PVC insulated connecting wire etc. complete as required including cutting wall and mending good the damages as per direction of the Engineer. i)12" Exhaust fan plastic body (foreign made accepted / approved by the Engineer).	Each	2		
88.0		Supply, fitting and fixing galvanized cable tray made of 18 SWG (1.2 mm) MS Sheet evenly perforated with 7 mm width Capsule hole punch with self-Hanging Facility at top, joint clamp, including fabricating cost of electricity, tools and plants, workshop charges, carriage of the same, cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4), etc. complete for all floors accepted by the engineer. i) Perforate Cable Tray With Cover, W-300mm,H-75mm,T-2mm. GP Sheet With Hot Deep Galvanized.	RM	198		
89.0		Supply, fitting and fixing galvanized cable tray made of 18 SWG (1.2 mm) MS Sheet evenly perforated with 7 mm width Capsule hole punch with self-Hanging Facility at top, joint clamp, including fabricating cost of electricity, tools and plants, workshop charges, carriage of the same, cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4), etc. complete for all floors accepted by the engineer. i)Perforate Cable Tray With Cover, W-150mm,H-75mm,T-2mm. GP Sheet With Hot Deep Galvanized.	RM	132		

90.0		Cable Tray Hanging Accessories: Supply and Fixing 1. Support Rod / Threaded Rod – Mild Steel/Stainless Steel, Dia:10/12mm, Galvanized/Zinc-plated, Suspends cable trays from ceiling or beams.2. Clamp / Hanger Clamp – Mild Steel/Stainless Steel, Galvanized/Powder-coated, Secures trays to rods/beams.3. Clevis Hanger – Mild Steel/Stainless Steel, Galvanized/Powder-coated, Adjustable hanger for trays/conduits.4. Beam Clamp – Mild Steel/Stainless Steel, Galvanized/Powder-coated, Attaches rods to beams without drilling.5. Channel / Strut Support – Galvanized Steel, Size as per load, Horizontal mounting for trays.6. Drop Rod Anchor / Anchor Fastener – Stainless/Mild Steel, Chemical/Expansion bolt, Fixes rods to concrete securely.7. Nuts, Bolts & Washers – Mild Steel/Stainless Steel, Galvanized/Zinc-plated, Standard fasteners for accessories.	LOT	1		
91.0		Cable Pulling: Main Power Cable Substation to Vault Building (Only Cable to be supplied by the Client)Providing & laying of the following PVC insulated & sheathed cable (NYY) / (XLPE) insulated & PVC sheathed cable (2XY) with PVC insulated Green / Yellow bi-colour ECC wire (BYA) connecting at both ends, through PVC pipe & accessories in the following manner. All electrical contacts shall be of brass / copper connected through connector or soldering (no twisting shall be allowed) and cables shall be manufactured and tested according to IEC / BS / VDE standards along with relevant BDS standard as per detailed specification mentioned in Annexure-1. The work shall be carried out as per direction & approval of the Engineer In Charge.i) In kutcha ground by cutting 45.70 cm width x 91.40 cm depth trench with necessary brick or tile protection and mending the damages good by refilling trench with proper compaction;ii) In pucca floor through PVC pipe by cutting trench of necessary size and mending the damages good by brick soling, 75 mm (1:2:4) CC work with neat cement finishing etc.iii) Making following Cable Trance in Pucca floor having 76.2 mm (3") thick cc (4:2:1) base on one layer of flat brick soling over 76.2 mm (3") thick sand bedding at the bottom, 127 mm (5") thick bric work (4:1) at the sides complete with 12.7mm (1/2") plaster and neat cement finishing duly covered with 4.8mm (3/16") thick MS sheet having necessary lifting Lugs. W(Width) -913mm X D (depth)-864mm	RM	247		
92.0		Wiring/Installation: Supply, fitting and fixing of Galvanized cable ladders made of 14 SWG (2 mm) MS Sheet with 16SWG Sheet and rungs spaced of 300 mm centers, 100x25mm side rail with multiple formation to protect from torsion and bending with full loading capacity with self-Hanging Facility at top and bottom, joint clamp, including fabricating cost of electricity, tools and plants, workshop. charges, carriage of the same, cutting groves in the RCC or brick work, mending good the damages with CC (1:2:4), etc. complete for all floors accepted by the engineer. 900x100 mm	Job	1		

93.0		Electrical Testing, Commissioning & Documentation Works: 1. Earthing Test: Conduct earth resistance testing of all earthing pits using a calibrated earth tester (megger) as per IEC/IEEE standards. Ensure resistance value within permissible limits (<1 ohm or as specified) and record results for client approval. 2. Insulation Resistance (IR) Test: Conduct IR testing on all power, control, and lighting circuits using 500V/1000V megger as per IEC 60364. Ensure insulation resistance ≥1 MΩ or as per specification. Record and document all readings. 3. Conductor Purity Test: Supplier has to provide certificate of Cable Conductor purity Test of all type of cable from Laboratory of BCSIR. 4. Thermal Test: Perform thermal scanning of electrical panels, switchboards, and cable joints using an infrared thermal imaging camera to identify overheating or loose connections. Submit thermal images and rectification report as per IEC 60943/IEEE 1188. 5. Preparation of As-Built Drawings: After completion of installation and testing, prepare and submit updated As-Built Drawings reflecting all final site conditions, cable routes, and modifications, duly approved by the consultant/client. All tests and documentation shall be performed in accordance with IEC, IEE, and local electrical standards, complete in all respects.	Lot	1		
94.0		Budget for Missing / Additional Electrical Items (BZT): A provisional amount (BZT) has been allocated for any missing, unforeseen, or additional electrical materials, accessories, or minor installation works that are not explicitly mentioned in the main project BOQ or drawings but are necessary to ensure proper functionality and completeness of the system. The utilization of this amount shall be based on actual site requirements and with prior approval from the Engineer/Consultant. The budget covers installation, testing, and commissioning as required, complete in all respects.	Job	1		
95.0		UPS: Supply of following uninterruptible power supply (UPS) complete with central processing unit suitable for input supply 160 - 275 volt AC single phase 50 Hz for output voltage 220 volt ± 1%, 50 Hz single phase having protection for lightning & surge, blackout, over & under voltage, overload, battery low and over-charge etc. complete as required as per sample approved by the Engineer. Back-up time : 120 minutes at full load. 6000 VA	Pcs	1		
96.0		Battery: Supply, Installation and Testing of the following batteries inconformity with BDS IEC standard accepted / approved by the Engineer. Brand: Long/Voltan/Leoch Capacity: 12V 26Ah	Set	1		
97.0		Supply, installation, testing and commissioning	Job	1		

98.0		LIGHTNING ARRESTER				
98.1		Providing & fixing 25.4 mm (1") dia 457 mm (1.5 ft) long solid copper rod with 6.6 mm thick 150 mm x 150 mm copper made base with sharp end top, fixed on the top of 2.0"(2.5 - 3 mm thick) dia 10' long GI pole by necessary accessories . The pole shall fixed on parapet wall with necessary CC work and other accessories for arresting lightning as per plan (enclosed) and as per direction of the Engineer. Eset mast OPR-60: i) Withstand Peak Lightning Curent : 100 KA ii) Weather condition of work : Material of lightning Air Terminal should be able to work in any environmental condition. So, material of Air Terminal should be stainless steel. iii) Dimension of the air terminal : Minimum length : 220 mm 25mm dia solid rod at the bottom of the Air Terminal having M20 male thread to fix on mast. iv) Certified advance Time : Maximum 60;r second with a current peak higher than 100 KA. v) Material of the Air Terminal : Stainless steel vi) Weight : 2.25 - 4.00 kg. vii) Radius of protection : 90- 100 meter at 5 meter height from the plan. viii) Product certification and standards: System should compliant to UL-96 (lightning protection component) (standard of sat'ety) ix) Manufactured / Assembled and made in: USA / FRANCE / AUSTRALIA or EU countries.	Each	1		
98.2		Air terminal mast :Supply and installation of insulated Air Terminal mast ofthefollowing specification -Made of stainless steel (Type : 316)Length : 2300 mmDia : 30mmThe mast shall be fixed on the top of the Gl tower with SS nuts bolts,clamps as per sample approved by the Engineer-in-charge,	Each	1		
98.3		Counter: Supply and installation of lightning event counter of the following technical specification - Register capacity : 0-999 mechanical counting without extemal power supply (LCD display) The down conductor shall pass the hole of the counter and the same shalt be fixed vertically at any point	Each	1		

98.4		Test box: Supply and installation of earth test box with the following arrangement inside it. Test Joint : (79mm x 50mm x 20mm) made of copper. 30mm x 2mm and dia 8mm, line coupling made of copper.	Each	1		
99.0		Down conductor: Supply and drawing of copper made down conductor having dia I2.7 mm or copper strip (30mmx2mm) with fixing holder on vertical and horizontalsurface. The fixing shall have 40mm to 50mm length or height and will beplaced 3 nos per meter as per direction and sample approved by theEngineer-in-charge.	RM	99		
100.0		Construction of GI tower with the following specification - GI Pole: Dia 3", Length: 15' (L-10', D-3"; L-5', D- 2") duly painted with powder coating with epoxy polyester resin . There will be minimum three Guy-wire for erection of the pole properly. The base of the pole and guy will be installed by CC on the roof-top and the size will be as required to hold the pole at any circumstances.	Each	1		
101.0		Earthing: Construction of earthing (2 nos.) for the lightning arrester as per instruction and enclosed diagram and as per direction of the Engineer in the following way- i) Soil digging : Size – 3000mmx400mmx400mm (2 nos.) ii) Construction of pit by brick and RCC slab on it. On the top of the slab there will be a hole and a pit cover made by cast iron will be fixed on it. iii) Size of the pit : (600mmx600mmx600mm) (2 nos.) iv) Copper plate : (300mmx150mmx15mm) (2 nos.) Copper plate will be fixed with the electrode (copper rod or copper strip) by necessary fixing materials made of copper. v) Copper electrode (12.7mm dia copper rod or copper strip (30mmx2mm) Length of the copper rod or strip : minimum 3000mm (10+10) = 20 meter. vi) Ground enhancing materials (40 + 40) = 80 kg. (2 Nos. of earthing is considered 1 set)	Job	1		

E02.. Sanitary & Plumbing Item						
102.0		Supplying, fitting and fixing BISF standard Bangladesh pattern, 570 x 445 x 290 mm long pan with foot-rest, approx. 12 kg by weight, made of vitreous China and preparing the base of pan with cement mortar (1:4) and with wire mesh or rods, if necessary in all floors including making holes wherever required and mending good the damages and fitting, fixing, finishing etc. complete with all necessary fittings and connection as per direction of the engineer-in-charge. Brand: RAK/Equivalent.	Nos	1		
103.0		Supplying, fitting and fixing white glazed vitreous International standard W/H wash basin approximate size (580mm x 445mm x 235mm) & wt. 14 kg including fitting, fixing the same in position with 30mm dia PVC waste water pipe with C.P. coupling (not exceeding 750mm in length), 12 mm dia. plastic connection pipe with C.P. coupling, 12mm dia C.P. stop cock, 12mm 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, S.S. screws and mending good the damages etc. all complete as per direction of the Engineer-in-Charge. Brand: RAK/Charu/Rosa/Equivalent.	Nos	1		
104.0		Supplying, fitting and fixing standard size S.S soap tray including making holes in walls and mending good the damages with cement mortar (1:4), S.S. screw etc. all complete as per direction of the Engineer-in-charge. Brand: RFL/Equivalent.	No	2		
105.0		Supplying, fitting and fixing of S.S. toilet paper holder with cover including making holes in walls and mending good the damages with cement mortar (1:4), S.S. Screw etc. all complete as per direction of the Engineer-in-Charge (approved model & type). Brand: RFL/Equivalent.	Nos	2		
106.0		Supplying, fitting and fixing super quality white / coloured 600mm x 125mm size plate glass shelf of 5mm thickness with fancy C.P. bracket, S.S. screws and frames including making holes in walls and mending good the damages etc. all complete as per drawing, specification and direction of the Engineer-in-Charge (wesda brand).	Nos	2		
107.0		Supplying, fitting and fixing approved quality S.S. C.P. towel rail imported of 600 mm x 20mm long dia with C.P. holder including making holes in walls and mending good the damages with cement mortar (1:4), S.S. Screw etc. all complete as per direction of the Engineer-in-Charge.Brand: RFL/Equivalent.	Nos	2		

108.0		Supplying, fitting and fixing of unframed super quality 24" x18" size imported mirror of 5mm thick with hard boards at the back with all necessary fittings including making holes in walls and mending good the damages with cement mortar (1:4), morror clip, S.S. Screw etc. all complete as per direction of the Engineer-in-Charge (Made in Japan/Thailand/belgium/spain) or approved quality.)	Nos	2		
109.0		Supplying, fitting and fixing best quality faucets and heavy type 12 mm C.P. bib cock of best and approved quality as per direction of the Engineer-in-Charge. Brand: RFL/Sharif Metal/Equivalent.	Nos	2		
110.0		Supplying, fitting and fixing Special/Fancy quality C.P. concealed/surface 12 mm Stop Cock of best and approved quality as per direction of the Engineer-in-Charge. Brand: RFL/Sharif Metal/Equivalent.	Nos	2		
111.0		Supplying, fitting and fixing best and approved quality 12 mm CP special heavy duty pillar Cock for basin etc. complete, approved and accepted by the Engineer. Brand: RFL/Sharif Metal/Equivalent.	Nos	1		
112.0		Supplying, fitting and fixing 125 mm dia SS floor grating in traps or in drains including making holes in walls and floors and mending good the damages with cement mortar (1:4) etc. all complete as per direction of the Engineer-in-Charge. (RFL or approved quality and brand.)	Nos	2		
113.0		Supplying, fitting and fixing the following type floor traps (Siphon trap or P trap) for floor drain including making holes in walls and floors and mending good the damages including supply and carriage of all materials, labour, tools, incidentals, etc. all complete as per drawing, specification and direction of the Engineer-in-Charge. (National polymer or approved quality and brand.) uPVC floor trap 100 mm dia (RFL/Anwar uPVC pipe).	Nos	2		

114.0		**uPVC Pipe (For Soil, Waste, Vent and Rain Water):** Supplying, fitting & fixing of following inside dia best quality uPVC pressure soil pipe having specific gravity 1.35 - 1.45, water absorption for 24 hrs 0.1%, heat reversion at 150oc, the change is <5% for 15 minutes & 60 minutes immersion time for oil bath & air oven respectively, resistant to acetone, opacity <0.2%, break at elongation, rigidity, elasticity, tensile stress, bending stress, compressive stress, impact at 230c are >80%, 1.12 x 10.4 kg/cm2, 2600 - 3000m/mm2, 45 - 55 n/mm2, 21 kg/cm2, 600-700 kg/cm2, 1-2 ft lbs/in and 0.5 -1 ft lbs/in of notch respectively, hydrostatic pressure for 1 hr. is 310 proper electric, thermal, flow, chemical resistance fitted and fixed in position with sockets, bends, trap, painted flat bar clamp, plain bends, elbow, solvent cement, tees, cowls with all other type of required accessories such as round grating/domed roof grating bends, sockets bends, length = 6000 mm each. As per BSTI approved manufacturer standards or ISO standards. All work complete securely anchoring in place with necessary fixtures and fittings, making holes in wall and floor and mending good the damages and supply and carriage of all materials, labour, tools, incidental etc. all complete as per drawing and direction of the Engineer-in-Charge. (RFL/Anwar uPVC pipe).				
114.1		32mm diameter wall thickness 3.85mm	RM	16.5		
114.2		40 mm diameter wall thickness 4.20mm	RM	16.5		
114.3		50 mm diameter wall thickness 4.30mm	RM	16.5		
114.4		100 mm diameter wall thickness 3.9mm	RM	16.5		
115.00		Cleanout & Trap				
115.1		u-PVC Y or T - Y Cleanout 100 mm dia	Nos	2		
115.2		100 mm dia u-PVC P or S Trap	Nos	2		
116.00		**CPVC (Chlorinated polyvinyl chloride) Pipe :**Supplying, fitting & fixing of different inside dia best approved quality CPVC 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 fixed in position with sockets (including male & female) bends, elbows (male & female), Tees, Tee-part male and female, reducing Tees, reducing sockets, reducing elbows, union (including male & female)/ plug, Stop and Gate valves, Ball valves, concealed valve, union, flange and cross tee etc. with all accessories accepted by the Engineer. (All G.I. fittings A-1 brand).				

116.1		12 mm dia min. wall thickness 2.8 mm - 3.3mm	RM	16.5		
116.2		20 mm dia min. wall thickness 2.9 mm - 3.4mm	RM	16.5		
116.3		25 mm dia min. wall thickness 3.4 mm - 4.00mm	RM	11		
116.4		32 mm dia min. wall thickness 3.6 mm - 4.20mm	RM	11		
116.5		40 mm dia min. wall thickness 3.7 mm - 4.30mm	RM	16.5		
116.6		50 mm dia min. wall thickness 3.9 mm - 4.50mm	RM	16.5		
117.00		Supplying, fitting and fixing best quality Brass gate valve with sealant etc. complete approved and accepted by the Engineer (S-brand).	Nos	1		
118.00		Supplying, fitting and fixing best quality Ball valve with sealant etc. complete approved and accepted by the Engineer in charge (made in italy).	Nos	1		
119.00		Supplying, fitting and fixing G.I union with sealant etc. compete in all respects approved and accepted by the Engineer. Brand: RFL/Anwar Galvanizing /Union Steel tube/Equivalent.				
119.1		20 mm dia G.I Union	Nos	2		
119.2		25 mm dia G.I Union	Nos	2		
119.3		32 mm dia G.I Union	Nos	2		
119.4		40 mm dia G.I Union	Nos	2		
120.00		Supplying, fitting and fixing C.I. M. H cover dia 600 mm with 40 mm padlock (Maanco brand) for over head & under ground water tank etc. complete in all respect..	Nos	3		

121.00		Construction of masonry inspection pits up to depth of 700 mm with 250 mm thick brick work in cement mortar (1:4) with 100 mm thick R.C.C. top slab (1:2:4) with 1% reinforcement, 450 mm dia water sealed R.C.C. M.H. cover including necessary each work, side filling and one brick flat soling 75 mm thick (1:3:6) base concrete for making invert channel and 12 mm thick (1:2) cement plaster with neat finishing etc. all complete up to a depth of 0.75 meter as per direction of Engineer-in-Charge.Internal size (650x550 mm) and depth (450 to 750 mm) average 650 mm for single dia 160 uPVC pipe.	Nos	2		
122.00		Supply & Installation Ceramic Low Down (RAK/Equivalent)	Nos	1		
123.00		Construction of **septic tank (50 user)** of different sizes with walls of brick work in cement mortar (1:4 having a lining of minimum 125 mm R.C.C cast against the walls as per approved type plan over a brick flat soling and 150 mm thick reinforced cement concrete flooring (1.5% rebar) (mixed ratio:1:1.5:3) with 125 mm thick walls in partition and 12 mm thick cement plaster (1:4) with N.C.F. to insides of walls on floor and all around outside walls by 18" height at top including supplying fitting and fixing of two R.C.C. Tees and providing 450 mm dia water sealed heavy type C.I. manhole cover with locking/unlocking arrangement and 100 mm thick R.C.C (1:1.5:3) top slab (1.5% rebar), including centering, shuttering, fabricating, casting and curing etc. complete up to required depth including necessary earth work in excavation and shoring, bailing out water and side filling including the cost of all materials, operations and incidental charges. etc. all complete as per type plan approved and accepted by the Engineer.	Nos	1		
124.00		Construction of soak well of different sizes (medium and large sizes) with 250 mm thick solid brick work and 250 mm honey comb brick work with cement mortar (1:4) as per design over R.C.C. (1:2:4) well curb with 1% reinforcement up to the depth as per drawing with 450 mm dia water sealed heavy type. C.I. manhole cover with locking arrangement, filling the well up to the required depth with graded khoa and sand including supplying and fabricating M.S. rod, casting, curing including necessary earth work in excavation, side filling and bailing out water including cost of all materials etc. all complete as per drawing, design approved and accepted by the Engineer- in- charge.	Nos	1		
125.00		Supply & Installation Rain Water Upvc Pipe 100mm Dia with necessary accessories. (RFL/Anwar uPVC pipe).	RM	506		
126.00		Supplying, fitting and fixing of food graded plastic overhead water reservoir tank including all necessary fittings, hardware and consumables etc. all complete approved and accepted by the Engineer- in- charge. **1000 liter capacity (GAZI/Equivalent)**	Nos	1		

127.00		Construction of Surface drain of 300mm clear width and depth upto 300mm in brick masonary with 125mm thick check wall in cement-sand mortar (1:4) over average 75mm thick cement concrete base (1:2:4) over one layer of brick flat soling. The surface having minimum 12mm thick cement sand plaster (1:3) and neat cement finishing with cement, curing at least for 7days including excavation in all kinds of soil, backfilling with fine sand, consolidating and dressing, cost of water, electricity, other charges etc, complete and accepted by Engineer in Charge	RM	118.8		
E.03. Mechanical Work						
		Supply , Commissioning & Installation of HVAC System				
128.0		**Air Cooled Water Chiller inbuilt VFD**				
		Supply. installation. testing and commissioning of AHRI/EUROVENT Certified Screw compression type air-cooled water chiller having capacily as mentioned below and to cool water from 12.22ºC to 6.67ºC at condenser air entering temperature of 38ºC Water side fouling factor shotrld not exceed 0.0001 sq tl.-0F-hr/Btu The unil shall have at least 02 (two) compressors with minimum two independent refrigerant circuits.The unil shall have evaporator, condenser. economizer, refrigerant filter, service valves, safety conlrols, electronic expansion valve. control switches. isolalors, etc all completed wilh necessary wiring, piping & factory tested. The compressor shall he direct driven semi- hermetic screw compressor, wilh capacity control slide valve, load/unload valve, rolling element bearings, evaporator shall be shell and tube type, condenser tube shall be made of copper, condenser fins shall be made of aluminium, differential pressure oil pump, oil heater, suction gas cooled hermetically sealed squirrel cage induction motor, etc. The unit control panel shall be microprocessor based factory installed and tested. The unit casing shall be weather proof. The performance of chiller shall be rated in accordance with AHRI/Euro Vent latest version standard. Refrigerant will be Internrationally accepted & recornmended gas (CFC f|ee with zero ozone defleting potential level)				
		Chiller Shall be BACnet Compatible				
		Chilled water inlet/outlet Temp: 12.22 °C / 6.67 °C				
		Condenser air inlet temperature: 38 °C				
		Type of Compressor: Inbuilt VFD Screw .(Compressor manufacturer shall be same as a whole chiller manufacturer. Compressor country of origin, Manufacturing and shipment country: USA, European countries, Japan.)				
		Minimum Number of Refrigerant Circuit with Gas Locking devices: 2				

		Starter: InbuiltVFD				
		Capacity Control: Stepless				
		Guard for Condenser Fins				
		Refrigerant: R407C/ R 134a/ R410 or any other Environment friendly Refrigerant				
		Power Input Source: 400±10% V, 50 Hz, 3 Ph				
		Country of Origin, Manufacturing and Shipment: USA,European countries, Japan.				
128.1		Cooling Capacity: 150TR	Set	2		
		Chilled Water Flow Rate: 360US GPM minimum				
129.0		**Chilled Water Pumps (CHWP)**				
		WATER PUMP SET INCLUDING ACCESSORIES Supply, installation. Testing and commisslonlng of End Suction Vertical Discharger/Horizontal Split case Centrifugal Pumps as per following capacities and specifications. Each pump set shall be complete with integrally coupled eleclrical motor (suitable for VFD) of appropriate capacity. VFD, flexible coupling, spacer units, shaft cover, support base and all other standard components. The motor shall comply at least IE-3 efficiency standard. Efficiency not less than 87% according to IEC 6034-2-l:2014. Temperature Class B, Insulation Class F at least IP 65. The speed of the motor shall not exceed 1500 rpm. The supply powcr shall he 400+/-10% V- 3Ph50Hz. The unit shall conform to detail technical specification. Each unit shall be complete with Inertia Block and Seismic Restraint type Vibration isolators.				
		Country of Origine , Manufacturing and Shipment: USA, EU, Japan, South Korea, Malaysia.				
129.1		Water Flow Rate: 360 US GPM Head: 30 m	Sets	2		
130.0		**Air Handling Units (Floor Mounted for Outdoor Use)**				

		Chilled water air-handling unit shall be floor/ceiling mountable, horizontal/vertical, double skin. Draw through type having capacities as mentioned below. Thc AHU shall be constructed with thermal-Break profile and panel thickness shall not be less than 60 mm. Outer skins made of pre-painted galvanized sleel sheet 0.6 mm thickness and lnner skins made of galvanizerl sleel sheet 0.6mm thickness or stainless steel based on application. The unit performance shall be certified under EUROVENT, AHRI CERTIFICATION prognmme for air-handling units. Each unit shall be complete with centrifugal/plug fan(s) with motor, air-ditfuser. Cooling coil(s). washable filter(s), drain pan. Vibrarion isolator. Mixing box. Retum, bypass and fresh air volume control damper, flexible connector, flexible elcctrical wiring, inspection light. View panel, elc. Fan(s) shall be of belt/direct driven type and shall be selected at higher efficiency and acceptable sound level to achieve standard noise level in conditioned space. Motor shall be totally enclosed, squirrel cage induction type and insulation shall be of class F, IP55 Fan discharge velocity shall not be more than 1700 ft/min. power supplI, shall be 400±10% V, 50 Hz, 3 Ph . Chilled water enters the coil at 6.67ºC and leaves at 12.22ºC. Cooling coil shall not be less than 4 row depth with l0 fins per inch. Face velocity shall not be more than 450 ft/min. Water pressure drop inside coil shall not more than l0 ft. of W.G. The arrangement of fan, coils, mixing bypass, filters, etc, shall be as shown in AHU schematic drawings. Fan ESP given is excluding pressure drop of coil, filters, dampers, within & attached to the unit. Layout: Mixing Box with Two Dampers+Washable G4 Filter+Minimum 4 Row cooling coil+Fan.				
		Inner Panel: Min 22 SWG Plain Galvanized Steel sheet				
		Outer Panel: Min 22 SWG Pre-plasticized Galvanized Steel sheet				
		Vibrating Isolators for fans				
		Sloped insulated SS drain pan,				
		Fan type: Centrifugal/ Plug				
		Flexible connection with Fan				
		Insulation material: PU min 60mm thick, Min density 40 kg/m3				
		Coil face velocity: Max 2.54 m/s				
		Fan Motor RPM: Max 1480				
		Entering water temperature: 6.67 °C				
		Leaving water temperature: 12.22 °C				
		Access Doors & Panels would be as per AHU selection				

		Power input: 400+/-10%V, 50 Hz, 3 Ph				
		Type: Horizontal arrangement type with Horizontal discharge & Sucton				
		Air Flow Rate: 8400 CFM Minimum				
		Outdoor Air flow: 500 CFM				
		Cooling Coil:				
		Entering Air Temperature: DB 25.24 °C/ WB 19.05 °C				
		Leaving Air Temperature: DB 13.5 °C/ WB 13.2 °C				
		Chilled Water Flow Rate: 55US GPM				
		External Static Pressure: 350 Pa Minimum				
		Fan Motor shall be VSD Operable.				
		Fan Shaft Power: 2.2-6.00kW				
		Electric Heating Coil Data:				
		Electric Heating Coil Data:				
		Electric heater shall be of reputable make, factory fabricated and built into the air-handling unit by air-handling unit manufacturer.				
		Electric heater bank complete with finned electric heating elements of nickel chrome wire in steel tube and fins, high limit cutout, airflow failure cutout, terminal box, of welded construction.				
		Incorporates manual reset for over-temperature cutout with remote sensing element and temperature adjustable between 70 °C and 115 °C. Airflow failure cutout shall have a range of 12 Pa and 250 Pa Including 3 step heater control.				
		The unit shall be complete with followings:				
		Heating Coil Type: Electric Heater Bank				
		Heating Coil Capacity: 3 kW x 3 Stages (Minimum)				
		Incoming Circuit Breaker				

		Outgoing Magnetic Contact for each stage of Heater				
		Control Panel Box with internal wiring				
		Combined Temperature and Humidity Sensor (Duct Mounted)				
		Automatic Temperature and Humidity Controller				
		Electric Heating Coil Face Velocity: 3.5 m/s max.				
		Air Filter Data:				
		Prefilter: Grade G4 (EN 779) Pleated, Regenerable, Efficiency: 30-35%				
		Air Filter Gauge: Magnehelic type across prefilter and medium filter				
		Country of Origine , Manufacturing and Shipment: USA, EU, Japan, South Korea, Malaysia.				
130.1		Total Cooling Capacity: 21 TR, ESP: 350Pa	Sets	2		
130.2		Total Cooling Capacity: 21TR, ESP: 325Pa	Sets	2		
130.3		Total Cooling Capacity: 21TR, ESP: 300Pa	Sets	2		
130.4		Fresh Air Cooling Unit				
130.5		Total Cooling Capacity: 4 TR, Flow: 1500CFM, ESP: 80Pa	Sets	2		
131.0		**Pre-Insulated Pipe or Pipe with External Customised Insulation**				

		Supply, installation, testing and commissioning of pre-Insulated Black Steel Pipes for all the chilled water piping system including cutting, edges preparation, welding, hanging etc. complete in all respcct. The pipe shall be 40 Schedule Black Stcel pipe and the insulalion material shall be fibre glass/ polystlrene/ polyurethane or appropriate thickness and jacketed with galvanized steel. Area where two pipe ends are to be joined and elbows, tees, reducers elc. shall be insulated by pre-formerl fibre glass/ polyurethane insulation material and then jacketed. Pipe hanger/ isolator boxes with spring isolators, hanger rods, steel supports, all other materials and consumable in this connection shall be supplied by the Contractor under this head. The work shall be as per technical specification and sample approved by the Engineer-in-charge.				
		Brand: Insafoam or Equivalent				
		Origin: Malaysia, Thailand or Equivalent				
131.1		Dia.: 150 mm (Insulation Thickness 38mm)	Rft	40		
131.2		Dia.: 150 mm (Insulation Thickness 38mm)	Rft	100		
131.3		Dia.: 80 mm (Insulation Thickness 38mm)	Rft	240		
131.4		Dia.: 65 mm (Insulation Thickness 38mm)	Rft	50		
131.5		Dia.: 50 mm (Insulation Thickness 38mm)	Rft	330		
131.6		Dia.: 32 mm (Insulation Thickness 38mm)	Rft	100		
132.0		**Water Valves & Accessories**				

		Supply, installation. testing and commissioning of steel/ cast iron Water Valves of different sizes for use in chilled waler and condenser water pipe lines the valves shall be flanged type for sizes upto and above Ø 2". Valve sizes below Ø 2" shall be threaded type. The unit shall confom to the detail technical specification and shall be complete with all standard fittings and accessories,Pressure Rating: 10 Bar				
		Brand: Tecofi, Arita, Kitz, Tozen or equivlent.				
		Country of Origin, Manufacturing and shipment:USA, EU, Japan,South Korea, Malaysia.				
132.1		**Butterfly Valve**				
		BFV-Cl body, Dl disc , multi flange connccction. EPDM seat				
132.1.1		Gear Operated, Dia.150 mm	Nos.	10		
132.1.2		Gear Operated, Dia. 100 mm	Nos.	1		
132.1.3		Gear Operated, Dia. 50 mm	Nos.	14		
133.0		**Motorised Butterfly Valve**				
133.1		Dia. 150 mm	Nos.	3		
134.0		**Pressure Independent Balancing and Control Valve (PICV)**				
		Supply, installation, testing and commissioning of pressure lndependent Balancing and Control Valves (PIBCV) as pe, following sizes including supply of all necessary hardwares and consumables. The unit shall conform to detail technical specilication.				

134.1		Dia. 50 mm	Nos.	8		
134.2		Dia. 32 mm	Nos.	3		
135.0		**Check Valves (Swing Type)**				
		D swing check valve, Dl body. PN l6 flange				
135.1		Dia.: 150 mm	Nos.	6		
136.0		**Y-Strainer**				
		Supply, installation, testing and commissioning of Y-strainers as per following sizes and shall be complete as per technical specification.				
136.1		Dia.: 150 mm	Nos.	3		
136.2		Dia.: 50 mm	Nos.	8		
136.3		Dia.: 32 mm	Nos.	3		
137.0		**Flexible Pipe Joints (Rubber)**				
		Supply, installation, testing and commissioning of Flexible Pipe Connector as per following sizes and shall be complete as per technical specification.				
137.1		Dia.: 150 mm	Nos.	10		

137.2		Dia.: 50 mm	Nos.	14		
137.3		Dia.: 32 mm	Nos.	6		
138.00		**Auto Vent Valves**				
		Free Floating Type Automatic Vent Valve shall have test cock, 20 mm NB threaded outlet and inlet connection to accept drain line and chilled water inlet connection. It must be located at the top level of all pipe work where there is possibility of Air Trap. Require to show position in Shop Drawing.	Nos.	6		
139.00		**Pressure Balancing Valve**				
		Bronze gate valve. NRS Class 150 (Shell 350 PSIG, Seat 225 PSIG), BSPT connection				
139.1		Dia.: 100 mm	Nos.	2		
140.00		**Ball Valve**				
140.1		Dia.: 32 mm	Nos.	6		
140.2		Dia.: 19 mm	Nos.	60		
141.00		**Water Flow Balancing Valve**				
		Supply, installation. testing and commissioning of STAD or Bell & Gosset type Balancing Valves complete wilh all accessories and components for balancing and recording of flow rates of chilled water and condenser water flow through pipes Units shall conform to detail technical specification.				

141.1		Dia.: 150 mm	Nos.	3		
142.00		**Metering Devices**				
		Supply. installation. testing and commissioning of following Metering Devices as per detail technical specification				
142.1		**Pressure Gauge**	Sets	20		
		Pressure Gauges (minimum 4" Dial, 3/8" BSP bottom conncction) (Ranges:0-2,000kPa)				
143.0		**Pipe Thermometer**				
		Pipe Thermometers (scale casing, alunrinium. anodizend material. Each stem lenglh brass material, BSP connection (straight type) (Ranges: 0- 65ºC)	Nos.	28		
144.0		**Flow Switch**	Nos.	3		
145.00		**Pipe Accessories Insulations**	Lot	1		
		All Chilled water pipe accessories such as Valves, Strainers, etc., shall have to be insulated with Closed cell Nitrile Rubber with adhesive. There must have no air gap inside insulation.				
146.00		**Chilled Water Pump insulation with 32mm thick Nitrile Rubber Insulation**	sets	2		
147.00		**External Pipe and Duct Jacketing**	Sqft	6600		

		Jacketing shall be done with 24 SWG Aluminum sheet/GP sheet. Weather proof sealant to be used at all joining places.				
148.00		**Condensate drain piping**				
		Made of PVC Water grade pipe with 20 mm thick Aluminum Foil pasted Poly Elastomeric Foam/ Nitrile Rubber Pipe Insulation pasted with Aluminum foil.				
		The pipe works includes Elbow, Tee, Reducer, Socket, Nipple, Endcap, Dead plug, Hanger, support, etc.				
148.1		Dia.: 50 mm	Rft	165		
148.2		Dia.: 40 mm	Rft	220		
149.00		**Sheet Metal Ducting**				
		Supply, installation and testing of metal ducts of different sizes as per drawing and detail technical spccification including supply of duct hanger/ isolator boxes, hanger rods, steel supports, all other materials and consumables. Duct materials and construction shall be complete as per detail specification and SMACNA standards. The work shall be complete as per instruction of Engineer-in-charge and sample shall be approved by the Engineer-in-Charge.				
149.1		Duct made of 22 SWG GP sheet	Sqft	6050		
149.2		Duct made of 24 SWG GP sheet	Sqft	9350		
149.3		Flange Joint	Lot	1		
149.4		Duct Support	Lot	1		

150.00		**Duct External Insulation**				
		Supply and installation of insulation on the outside surface of melal ducts as per drawing and detail technical specification including supply of all materials and consumables. The work shall be complete as per instruction of Engineer-in-charge. and samples shall be approved by the Engineer-in-Charge. The insulation shall be fire retardant Close cell Nitrile Rubber class O. It shall be adhesive backed with peel-off paper. The insulation shall have a maximum allowable 'K' value of 0.04 W/mºC-. with Self Adhesive and Alu Foil Outside. Density: 50 kg/m³, Thermal conductivity: 0.0362W/m.k.				
		Brand: Superlon, Copperlon, Armacell or Equivalent				
150.1		**Thickness: 25mm**	Sqft	16500		
		Air Terminals				
		Supply, installation, testing & commissioning of Louver, Diffiuser, Damper & Grille with complete all necessary accessories and fittings,Fixing for commissioning of the equipment as follows technical specification. drawing and time to time site instruction by the enginner in charge. All the louver/Grille shall be constructed with extruded aluminium with powder coat paint finish complete with face margin and fixing accessories. Neck velocity shall not be more than 500 ft/min at a pressure drop of 0.08 inch WC				
151.00		**Air Diffuser**				
		4-way Supply Air diffuser c/w Opposed blade type neck damper. Damper shall have worm gear for operating from room side.				
151.1		Neck Size: As Required	Sqft	297		
152.00		**Duct Flexible Joint with AHU/ FCU/ Fan**	Nos.	20		

		Supply and installation of flexible ducts to make connction between equipments viz. FCU, AHU, FA-AHU, HRU-FA/AHU, EAF and Ducts as per drawing and detail technical specification including supply of all materials and consumables. The work shall be complete as per instruction of Engineer-in-charge. and sample shall be approved by the Engincer-in-Charge				
153.00		**Volume Control Dampers**	Each	120		
		Supply and installation of opposed blade type volume control damper constructed with l8 BWG sheet steel painted with two coats of synthetic black paint. The damper shall have adjustable locking arrangement with worm gear operable from outside duct work and shall be flanged end type suitable to mount on flanged end duct work. Volume control dampers shall be as per layout drawings and direction of Engineer-in-charge.				
153.1		Fire Damper				
		Supply, installation, testing & commissioning of I.5 Hours fire rating damper 20 CA.lntcrlocking stecl blades UL listed fusible link (165ºF standard) roll formed steel frame 20GA. Negator stainless steel closer spring.				
		Brand: Greenheck, Ruskin, TROX, Systemair or Equivalent				
		Country of Origin: USA, EU, Japan, South Korea, Malaysia.				
		Size: 750x700	Set	12		
153.2		Splitter Damper				
		Supply and installation of Splitter Damper as per drawing and detail technical specification including supply of all materials and consumables. The work shall be complele as per instruction of Each Engineer-in-charge. and sample shall be approved by the Engineer-in Charge.				
		Size: As Required	Set	36		

154.00		**EXPANSION TANK (CLOSED TypE) with Dynrnric Pressurization System**				
		Supply and installation of closed tlpe Expansion tank having connection for pipes, feed water line, overflow line, drain lile. make up water pump(s) etc. complete in all respect. The tank shall be capable of withstanding 250 psig. The tank shall be insulated with 8mm thick PE insulation.				
		Brand: Reflex or Equivalent				
		Origin: Malaysia or Equivalent				
		Shipment: Malaysia or Equivalent				
		Capacity: 500Liter	Set	1		
155.0		**Feed Water Tank with Auto Refill pumping System**				
		Brand: Gazi,Shera or Equivalent.				
		Origin: Bangladesh				
		Manufacturing: Bangladesh.				
155.1		Capacity: 1000Liter	Set	1		
		Pump: Pedrollo,Marquis or Equivalent				
		Origin: Italy,Malaysia or Equivalent.				
155.2		**Chemical Dosing Pot**				
		Chemical Dosing Pot S.S 304 of 1.6mm thickness with followings:				
		Water inlet SS Ball valve: dia 20mm				

		Water outlet SS Ball valve: dia 20mm				
		Drain port (SS Ball valve, dia 20mm)				
		Chemical inlet funnel with SS Ball Valve, dia 20mm				
		Capacity: 8 liter	Set	1		
156.00		**Shop Drawing and Documentation**	Job	1		
		Preparation of detail Shop Drawing including, layout drawing, section details, schematic drawing etc. Get approval of shop drawing before any fabrication or installation works. Shop drawing must be coordinated with other services likely Electrical cabling, Light Fixtures, False Ceiling and Interior Design. The work also includes:				
		Show actual dimension & weight of Equipment.				
		- Show actual kW/Amp, LRA, RLA, No of Phase, Circuit Breaker ratings, etc. rating of all equipment				
		- Reconfirm Electrical cable sizing				
		- Reconfirm Ampere ratings of AC Panels' components.				
		- Submit Electrical connection diagram of AC Panels				
		- Submit General arrangement of AC Panels				
		- Submit Plinth drawing for all equipment supports with operating weight.				
		- Show union, socket, nipple, reducer, end plug, dead cocks, etc. in piping drawings.				
		- Submit Electrical and P&I Diagram of Chilling unit				
		- Show input requirement from Client in red color.				
		- Bottom level for all duct, pipe, Equipment, Cable Tray, etc. from Finished Floor Level.				
		- Submit advance copy of Installation, Operation and maintenance manuals of all equipment.				
		Contractor should prepare this drawing at site coordinating with other services.				
		Drawing submission in suitable paper size with minimum 1:50 scale. Soft copy AutoCAD to be furnished with hard copy.				

		In case of any conflict between Design drawing and Shop drawing, information in the Design drawing will predominate unless recommended by the Consultant.				
157.00		**Tagging and Identification**	Job	1		
		Tagging and identification of equipment, Piping's, Cablings, etc. as per recommendation of the Consultant.				
158.00		**As-Built drawing**				
		Preparation and submission of As-built drawing in following forms:	Job	1		
		One set in tracing paper, size A1				
		Two sets print out in A1 Paper				
		Soft Copy in CD in AutoCAD Version 2018				
		Soft Copy in PDF Version				
159.00		**Testing, Commissioning and Balancing**	Job	1		
		After proper installation and certification the system shall be tested, commissioned and balanced as per direction and recommendation by the Manufacturer as well as HVAC Designer. Contractor shall do (but not limited to) following works under this clause.				
		- Prepare and submit Commissioning protocol and get approval from Consultant.				
		- Carry out duct Leakage testing for AHUs				
		- Carry out duct inspection for FCUs and Fans				
		- Carry out pipe pressure testing and inspection				
		- Carry our Electrical Cabling testing and inspection				
		- Pipe flushing and charging of Treated Water				
		- Chemical cleaning of rust, etc.				
		- Testing of condensate water drainage slope with water				

		- Testing of AHU, FCUs, Fans with Air and Water Balancing.				
		- Testing and Balancing of Pumps with Chilled water				
		- Cleaning of Y Strainers				
		- Commissioning of Chillers, AHU, etc.				
		- Safety protection and cutouts shall be tested individually				
		- Commissioning of Automatic Control system				
		- Balancing of Air flow rate				
		- Functioning test of Multi Chiller Control, Compressor sequencing and Pump control system				
		All testing and commissioning works must be documented in approved formats. All of these documents must be jointly witnessed and signed by the Client and Contractor's authorized Engineer.				
160.00		**Operation and maintenance**	Per Month	1		
		Thorough maintenance. servicing. operatlon and minor repairing including necessary replacement of defective minor spare pafls (departmentally supplied) if any, as per detailed daily. weekly, monthly, half yearly and yearly as per following work schedule for smooth functioning of the following capacity air-conditioning & ventilation system as per standard engineer-in-charge. practice and maintenance manual of the manufacturer and direction of the Engineer in-charge.				
		Log book for one hourly record shall be maintained by the Contractor and shall be submitted to the Owner in every week.				
161.00		**Chiller Plant Manager**	Set	1		
		It includes Chiller Manager for sequencing of Chillers and Pumps to maintain equal run time, constant temperature at Chilled Water Supply Header, automatic start of Standby unit in the event of duty unit failure				
		The works includes sensors, controllers, BTU Meter, Motorized Solenoid Valves across Chillers, Control Transformer, etc. including Control Cabling, Conduiting, etc.				

162.0		**Building Management System**				
		System Software for BMS System (500 Point)				
		The system shall be suitable to Control and Monitor through the Building Management System with advanced Direct Digital Controllers (BACnet over IP). It's a controls and monitors the HVAC Equipment such as Chillers, Chilled Water Pupms & AHUs.				
162.1		BUILDING MANAGEMENT SYSTEM SOFTWARE: Supply, installation, testing, and commissioning of BMS Software including BMS server is the core of the system and performs key functionality, such as control logic, trend logging, and alarm supervision. The "500 I/O for Arrigo Local ver 1 Core" refers to a license package for the Arrigo BMS (Building Management System) platform by Regin. This license allows the system to manage up to 500 input/output points, which can be sensors, actuators, or other control points in a building automation setup.Arrigo Local version 1 Core is a modern, scalable platform designed to improve collaboration and increase productivity across building operations. It supports third-party integrations, allowing it to connect with various external systems like Modbus, BACnet, MBus, OPC, and custom APIs. This integration capability helps centralize management, data logging, alarm handling, and reporting, making it a versatile solution for building and energy management.The system runs on Windows (64-bit) and uses JavaScript for advanced logic, supporting real-time data monitoring and flexible configurations. Its collaborative platform includes features like role-based user permissions and encrypted communications to ensure security and smooth multi-user operations.	No.	1		
		Brand:Johnson Controls,Honeywell, Deltawell, Regin .				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.2		Direct Digital Controller (DDC), Master Application Controllers for Chiller & Pump: Supply, Installation, Testing and Commissioning ofARR1-IO-500 is a family of next generation Master Application Controllers. This advanced iteration boasts a major upgrade with a powerful Quad-Core 1.6 Ghz processor, doubled RAM and storage capacity, and an effi cient visualization system with HDMI and USB support.MAC36PRO powered by Niagara Framework allows to take advantage of all the functionality of the Niagara Framework, enhancing its potential with the capabilities of this innovative controller. This controller is extremely versatile, off ering a set of onboard I/Os consisting of 16 UI, 8 AO, 4 DI, and 8 DO, making it adaptable to a wide range of applications. Among its various functions, theARR1-IO-500 excels in control, data logging, alarming, scheduling, integration and visualization.To	No.	1		

		allow IP connectivity there are 2 Fast Ethernet ports that can operate as two independent ports. Built-in RS485 interface can be used to expand the number of I/O by connecting multiprotocol I/O modules or to integrate with other subsystems. There are two more hardware versions of the controller with the second RS485 port or M-Bus interface available.TheARR1-IO-500 provides a rich graphical interface to be displayed on a standard web browser or an external display connected to a built-in HDMI and USB port (touchscreen support).				
		Brand:DDC Control (28-point DDC Controller & 15-point DDC Controller				
		Brand:Johnson Controls,Honeywell, Deltawell, Regin .				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.3		IO Modules (for Chiller & Pumps) Free programmable I/O module with Modbus RTU/ASCII or BACnet MSTP communication. 1xRS485, 8xUI. Power supply 24V AC/DC.	SET	1		
		Brand:Regin(15-point DDC Controller) or Equivalent				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.4		Advance Application Controller for AHUs: Free Programmabe Advance Application Controller with LCD, ARM Cortex-M4 dual core CPU, Built-in real-time clock (RTC) 2 RS485 interface 2 Ethernet interface with built-in switch USB host interface 1-Wire interface microSD card slot 22 I/Os onboard Built-in LCD 2xRS485,2xETH 8xUI, 4xDI, 6xAO, 4xDO. Power supply 24V AC/DC.	Nos.	8		
		Brand: Regin (28-point DDC Controller),Johnson Controls,Honeywell, Deltawell .				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				

162.5		Building Management Work Station Brand PC: Supply, installation of The Intel Core i7 10th generation (e.g., i7-10700) processor features 8 cores and 16 threads, with a base frequency of 2.90 GHz and a max turbo frequency of 4.80 GHz. It has 16 MB Smart Cache, supports DDR4 memory up to 2933 MHz, and uses the LGA1200 socket. The default thermal design power is 65W, and it includes Intel UHD Graphics 630 integrated graphic. The motherboard model M510 is less specific, but motherboards compatible with 10th gen i7 processors usually support DDR4 RAM up to 64 GB, multiple PCIe slots, SATA ports, and M.2 slots for storage. For example, ASUS PRIME H510M-E motherboard supports 10th gen Intel CPUs, 2 DIMM slots up to 64 GB DDR4 RAM at speeds up to 3200 MHz (OC), 1 M.2 slot, 4 SATA ports, and 1 Gb Ethernet For RAM, 16 GB DDR4 is good for general use and professional tasks including gaming, light video editing, and running multiple apps simultaneously HP. A 27-inch monitor typically features an IPS LCD panel with Full HD resolution (1920x1080), good color gamut (e.g., 99% sRGB), tilt adjustment, anti-glare coating, and refresh rates around 60-100 Hz. An example is the HP 27-inch FHD monitor with 300 nits brightness, 5 ms response time, and HDMI and VGA inputs BY HP. For network switches, many types exist depending on use case: unmanaged, managed, smart switches, PoE (Power over Ethernet), and different port counts. Brands and models vary for different network sizes and functionalities ctech.	No.	1		
		Brand:Cisco Catalyst/ Netgear ProSAFE				
		Model:M 510 Mother board, BL335 or INMBSBAC1000000				
		Country of Origin: Sweeden				
162.6		UPS 1200 VA (Standard Backup- 15 Min.): Supply, installation of 1200VA UPS	Nos.	2		
		Brand: RahimAfroz, Luminous				
		Model: Available Model				
		Country of Origin: BD.				
162.7		Field Devices				

162.7.1		Differential Pressure Switch (Air) Supply, installation of Differential Pressure Switch for air shall be suitable to detect pressure differential across fan and Filter. - Adjustment range: 40 to 400 (Pa), - Switching capacity 1.5 A, (0.4) /250 Vac, - Protection class IP 54	No.	8		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell,Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.2		Outside Air Temperature & Humidity Sensor Supply, installation of Outside Air Temperature & Humidity. 1.Selected outside air humidity transmitter with RH accuracy ±3% RH and temperature accuracy ±0.2°C.2.Selected outside air humidity transmitter with 1801Ω resistance output for temperature.	No.	2		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell,Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.3		Control Relay with Base Supply, installation of Relay Coil Voltage - 24VAC,Current Rating - 12A, Number of Changeover Contacts - 3, Number of Pins - 8 & Mounting Type- Plug-In.	Nos	20		
		Brand: Schneider Electric				
		Country of Origin:Japan/Equivalent				
162.7.4		Immersion Temperature Sensor with thermo well Supply, installation of Duct Air Temperature Sensor.	No.	20		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell,Danfoss.				

		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.5		Differential Pressure Transmitter Water Supply, installation of Differential Pressure Transmitter Water Selected water DP switch with range 0.5 to 3.5 Bar.	No.	1		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell,Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.6		Water Flow Switch Supply, installation of Water Flow Switch Selected paddle type water flow switch suitable for pipe up to 8".	No.	2		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell, Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.7		Differential Pressure Sensor (Air) Differential Pressure Transmitter to measure static or differential pressure across duct. I shall have 0-10 VDC or 4-20 mA output, - Supply voltage 18...30 Vdc , - Output signal 4...20 mA, two-wire , - measuring range: 0...500 Pa1, - Protection class IP54 .	Nos.	16		
		Brand: Regin,Johnson Controls,Honeywell, Deltawell,Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.8		Duct Air Temperature Sensor Supply, installation of Duct Air Temperature Sensor.	No.	16		
		Brand:Regin,Johnson Controls,Honeywell, Deltawell.				

		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark,Malaysia.				
162.7.9		Variable Frequency Drive: Supply, installation of Variable Frequency drive, 3 kW, 400+/-10% V, 50Hz, 3 phases, compact	Nos.	2		
		Brand: Schneider Electric, Danfoss,Mitsubishi,Yashkwa,ABB,Siemens.				
		Country of Origin,Manufacturing and Shipment :USA, Eu,Japan.				
162.7.10		Variable Frequency Drive: Supply, installation of Variable Frequency drive, 7 kW, 400+/-10% V,50Hz, 3 phases, compact	Nos.	6		
		Brand: Schneider Electric, Danfoss,Mitsubishi,Yashkwa,ABB,Siemens.				
		Country of Origin,Manufacturing and Shipment :USA, Eu,Japan.				
162.7.11		Variable Frequency Drive: Supply, installation of Variable Frequency drive, 15 kW, 400+/-10% V,50Hz, 3 phases, compact	Nos.	2		
		Brand: Schneider Electric, Danfoss,Mitsubishi,Yashkwa,ABB,Siemens.				
		Country of Origin,Manufacturing and Shipment :USA, Eu,Japan.				
163.0		Cables				
163.1		Control Cable Twisted Pair	Mtrs	2900		
		Brand: Lapp				
		Country of Origin: India/China				
163.2		Communication Cable: Supply, installation of Cat 6 UTP Cable	Mtrs	100		
		Brand: Hikvision/Equivalent				

		Country of Origin: China				
163.3		Power Cable: Supply, installation of Power cable (1×1.5 rm)	Mtrs	200		
		Brand: BRB,BBS				
		Country of Origin: BD				
164.0		PVC Conduit (25mm): Supply, installation of PVC Conduit with other necessary accessories	Mtrs	2000		
		Brand: BRB,BBS				
		Country of Origin: BD				
165.0		BTU Meter				
		SSU Series				
		Brand:Regin,Johnson Controls,Honeywell, Deltawell, Danfoss.				
		Country of Origin, Manufacturing and Shipment : USA, EU,Japan, Sweeden,Denmark.				
166.0		DDC Enclosure: Supply, installation of DDC Enclosure, powder coated perforated sheet with local made.	Nos	9		
		Brand: Local				
		Country of Origin: BD				
167.0		Miscellaneous work (Installation accessories shall include transformer, Tag, Network Switch, Socket, PVC Channel, Cable Tie, Connector,tape etc. as required to make the system operational and functional.)	Lot	1		
168.0		Testing, Commissioning & Programming	Job	1		

169		**Terms and Condition for PSI**				
a)		PRE-SHIPMENT INSPECTION (PSI)/ FACTORY ACCEPTANCE TESTING (FAT) Before shipment, the equipment shall be inspected / tested as mentioned above by a two-member representative team consisting of: i) One Mechanical Engineer from the Utility Section of SPCBL Engineering Department ii) One Electrical Engineer from the Electrical Section of SPCBL Engineering Department 1. Pre-shipment Inspection / Factory Acceptance Test for Chiller shall be at the Test Bay of Chiller manufacturing Factory. Chiller must be inspected at the Manufacturer's premises in running condition as per technical specifications and must also be shipped from the Seaport of the Origin Country/Manufacturing country 2. Pre-shipment Inspection / Factory Acceptance Test for Air Handling Units must be inspected at the Manufacturer's premises in running condition as per technical specifications and must also be shipped from the Seaport of the Origin Country/Manufacturing country 3. The representative team shall carry out the inspection through necessary visual examination and testing to ensure the quality and compliance of the Chiller, AHUs,Pumps,Valves and equipments. The team shall prepare and submit an inspection report confirming the findings. 4. Furthermore, the Contractor shall ensure that the quality and quantity of all imported/shipped equipment's and materials are identical to those inspected by PSI / FAT team according to technical specification described in BOQ of the tender schedule or the accepted specifications. 5. Under no circumstances there shall be any deviation or discrepancy between the inspected equipment's and materials those to be delivered at site. Moreover, if any equipment's and materials are not found suitable after installation and commissioning contractor will responsible to replace the equipment's and materials at his own cost. 6. All necessary cost of visit of the aforesaid persons including Invitation Letter, Visa processing, Air fare, accommodation (standard room at minimum 3 Star International Hotel), food, pocket allowances/expenses and local transportation (sea, air, train) shall be borne by the contractor as per rules of Government of Bangladesh (GoB). 7. The Chiller, AHUs,and other materials (except the local items) must be shipped after having written consent from the SPCBL's inspection team after PSI &/or FAT.				

b)		**GUARANTEE AND WARRANTY** 1.(a) The Contractor shall submit warranty certificate from the actual manufacturer(s)/ principal(s) of their products (Chillers, AHU's,,Valves, Pumps etc.)concerning manufacturing defects and performance for a period of 01(one) year/ twelve months from the date of formal acceptance of the plant. (b) The Contractor shall have to submit with the offer a warranty certificate from the actual manufacturer to the effect that the manufacturer shall provide 01 (one) year operational and maintenance services (after hand over the equipment's if any problems arise during operation or maintenance which could not be solved by SPCBL only for those problems solution from the supplier/manufacturer will be asked for) with necessary spare parts/skilled man power at their own cost and charges. 2. Contract shall be responsible for prompt replacement and/or repair of any component lost or damaged during handling, installation, and commissioning, testing, test running or due to mechanical/electrical fault. Such replacement of any unit or component parts of a unit or of any auxiliaries and materials shall be made by the Contractor at his own cost without waiting for settlement of any insurance claims the Contractor may have lodged. In case of such repair and/or replacement of any part by the Contractor, the period of performance guarantee and warranty shall start from the date when the equipment(s) is restarted. 3. The tenderer shall have to submit with the tender a warranty certificate from the actual manufacturer to the effect that equipment(s) (Chillers, AHU's,,Valves, Pumps etc.) to be supplied is brand new, made of best material according to modern manufacturing practice and suitable for use in tropical climate condition of Bangladesh. 4. The tenderer shall have to submit with the tender a warranty certificate from the actual manufacturer to the effect that the manufacturer of the equipment(s) (Chillers, AHU's,,Valves, Pumps etc.) shall supply the spare parts during the life cycle (minimum 15 years) of the equipment(s) and if any problem arise up to 15 (Fifteen) years which could not be solved by SPCBL only for those problems solution from the supplier/manufacturer or their local agent will be asked for with necessary spare parts/ skilled man power at the cost of the SPCBL after expiry of warranty period				
c)		SPARE PARTS AND TRAINING 1 Spare Parts: The Tenderer shall submit separately with the tender full list of spare parts including price in Taka against item recommended and deemed by the manufacturer to be adequate for operation and maintenance for a period of 5 years. The Employer will review this list and may select the spare parts to be included in the Contract for such purpose. However this cost will not be considered in the evaluation of the Tender.				

		2. The Tenderer shall give a protective maintenance Guarantee for 1(one) year after commissioning of the plant for major equipment (Chillers, AUH's, Pump, Valves Etc). In case of malfunction of any component of machinery, equipment, construction materials, instruments, control etc. the Tenderer/manufacturer will rectify the defects and replace the defective components free of all cost and charge. 3 Training Program: The duration of the training program to the essential operating staff of the employer for operation & maintenance of the equipment should be minimum 1 (one) month and acceptable to the employer. The Training Program shall be drawn up and included with the offer. The Employer will designate and depute the agreed number and category of personnel for the training. All training shall be completed before completion of maintenance period.				
d)		OTHERS 1. All materials should be supplied by the Contractor. The Contractor's supplied materials must be of the best quality. Material sample need to be approved by the Consultant before procurement. 2. The qualities of the work may vary at the time of execution of work and some items may not be executed at all. For such work, no claim will be entertained. No extension of time will be allowed for excess quantity of work done. 3.For misuse, damage or pilferage of materials supplied by the department or supplied by the Contractor and if any accident of labor occurred the contractor himself will be liable and no claim will be entertained. For misuse and pilferage of materials (if any) the cost will be recovered at double the issue rate. 4. The work may be done round the clock for which under any circumstances, no extra claim will be entertained. 5. No claim from the contractor shall be entertained if the work is not executed for any reason. 6. The arrangement of water supply, sanitation, electrification, Gas connection, etc. if any required for the purpose of execution of work should be made by the contractor himself at his / their own cost and risk.				

		7. If any clearance / No Objection Certificate (NOC) need from any department / authority for installation of any kind of equipment / component at site as per tender documents, the Tenderer will arrange the same for execution of the work from the concern department / authority at their own cost in favour of the Client. 8 . The Contractor shall have to bear the expenses of all kinds of test, which will be necessary time to time for this work, for which no extra payment will be made by the department. 9. The Contractor is to prepare shop drawings in coordination with other services, Interior Design and site condition. They are to work keeping coordination with other services works. All items / equipment must be new and from reputed manufacturers. 10.The Bidder shall clearly indicate the source of supply and furnish full particulars of materials and the name and address of the manufacturers and the country of origin, which shall not be changed after the opening of tenders and award of the Contract. 11. The Principal / the contractor shall give guarantee to the owner for supplying spares for a period of at least 10 years from the date of commissioning. Such guarantee shall be furnished from the manufacturer of the machine/equipment. 12. The Contractor shall arrange trial run for a period of 3 months from the date of commissioning on successful completion and handing over to the Owner. 13.The Contractor shall be responsible for complete maintenance works for a period of one calendar year from the date of official handing over to the Owner. 14.The Contractor shall remain totally responsible for attending faults, rectification (including any replacement works) of major or minor kind during commissioning, operation or maintenance period. 15. The Contractor shall impart full local training to a team of Engineers, Technicians and Operators deputed by the Owner in the field of operation, handling, and maintenance, trouble shooting throughout the period of installation, testing, commissioning, operation and maintenance. 16. The Contractor shall also execute all relevant electrical works including power control and wiring from the Electrical Power Switch Board. 17. The Client/Employer reserves the right to exclude any part of work from the Contractor's				

		scope for project requirement. 18. Dimension of any item shown in drawing is approximate. Contractor is to survey site to be satisfied with the dimension or size before ordering such item. 19. Quantity shown in BOQ Schedule is approximate. The Contractor is to verify quantity before placement of order. In case of any shortfall, the Contractor is to supply it. No, extra time shall be allowed for such				
Sub Total of Part E for MEP Work =						
Part F (Fire Fighting System)						
		CO2 GAS SUPPRESSION SYSTEM				
170		CO2 GAS SUPPRESSION SYSTEM:CO2 GAS CYLINDER CARBON DIOXIDE GAS: Supply & fixing seamless cylinder with carbon dioxide GAS: gas for suppression system, complete with valve assembly and necessary accessories with a safety burst disc and a safety cap etc. in conformity with NFPA 12. Cylinder shall be seamless steel type manufactured from billets & tested. The cylinder/valve assembly shall have suitable metallic protection Storage pressure: 20 ~60 bar, Working Pressure : 120~150 bar Test pressure: From 150 bar to 250 bar. Cylinder should include Syphon tube and Support base/ Strap, complete with Valve Assembly and pressure gauge. The valve assembly shall be mounted directly on the cylinder & should NOT have any adapter provision between the cylinder & valve as per requirements. Each cylinder valve shall have a provision for fixing a supervisory pressure switch & a safety burst disc to protect the cylinder from over pressure. The cylinder valve shall have a disabling plug to prevent accidental discharge of the valve during transpiration & installation. Each Valve is to be fitted with a pressure gauge for monitoring loss of pressure. The cylinder valve is to be released electrically which is performed by means of a solenoid valve arrangement. The CO2 gas is stored in seamless steel cylinders Applicable Fire Class: Class B & C fires. Pressure range:20~60 bar: carbon dioxide 50 kg capacity NB: Procuring entity shall mention only one type of carbon dioxide gas. **Brand: Tyco,Fike,Agnitar, SFFECO, SRIOrigin: USA, Turkey, Dubai, Malaysia Manufacturer: China Johnson, India, Turkey , Dubai, Malaysia**	No.	180		

171		CO2 DISCHARGE NOZZLE: Supply & fixing the discharge nozzles arc designed to provide the proper flow rate and distribution of CO2 Gas to total floor of hazardous area. 40 mm dia (1½ lnch) 360? **Brand: Tyco,Fike,Agnitar , SFFECO, SRI** **Origin: USA , Turkey, Dubai, Malaysia** **Manufacturer: China Johnson, India, Turkey , Dubai , Malaysia**	No.	113		
172		RELEASE CONTROL PANEL: Providing & fixing Release control panel for gas suppression system complete with battery and all other necessary accessories. Each unit shall be LPCB Approved. 2 Zones. **Brand: Tyco,Fike,Agnitar ,SFFECO , Asenware , SRI** **Origin: USA , Turkey, Dubai, China , Malaysia** **Manufacturer: China Johnson, India, Turkey , Dubai , Malaysia**	No.	3		
173		37-ABORT SWITCH: Supply and installation of Abort Switch used to momentarily interrupt the release circuit signal when the control unit is in the alarm condition. As long as the abort pushbutton is held in. the fire suppression system will not release.	No.	3		
174		MANUAL RELEASE SWITCH: Supply & installation of manual release switch with all necessary accessories.	No.	3		
175		FIRE SUPPRESSION DISCONNECT SWITCH	Nos	3		
176		HOLD SWITCH	Nos	3		

177		CYLINDER CONNECTION HOSE/ DISCHARGE VALVE HOSE Supply & installation of Flexible Discharge Valve Hose of minimum 1.5-meter-long (Minimum dia of discharge valve hose	Nos	190		
178		Gas Discharge Signage	Nos	3		
179		Evacuate Signage	Nos	3		
180		Gas Release Warning Signage	Nos	3		
181		SMOKE DETECTOR (CONVENTIONAL TYPE) Supply and installation of conventional smoke detector complete with base. Shall be UL listed / FM approved. Shall have built-in alarm LED. Power supply shall be 24vDC.	Nos	113		
182		HEAT DETECTOR (CONVENTIONAL TYPE) Supply and installation of conventional heat detector complete with base. Shall be UL listed / FM approved. Shall have built-in alarm LED. Power supply shall be 24vDC.	Nos	113		
183		NOTIFICATION DEVICES FIRE ALARM BELL Supply and installation of conventional type fire alarm bell of 150mm dia. red color. shall be UL listed / FM approved. Power supply shall be 24VDC. Sound level shall be not less than 92 dBA @ 3meter' (color of the bell shall be red	Nos	6		
184		HORN WITH STROBE Supply and installation of conventional type horn with strobe for notification purpose complete with back box, suitable to produce electronic sound level of 87 to 95 dBA @ 3 meter and illumination shall be not less than 75 candela red color shall he UL listed / FM approved. Power supply shall be 24VDC	Nos	6		

185		Balancing, testing & commissioning of fire detection & alarm system by the competent engineer. technical personnel and provide training to the PWD personnel to operate the system perfectly and safely. For 2 zone	Nos	3		
186		BLACK STEEL PIPE . 40 SCHEDULE: Supply and installation of IIRW / seamless schedule 40 black steel pipe of API 5LIASTM A5l standard . The pipe work shall be included with welded type tee, elbow, reducer etc. and also hangers / supports etc. completed. Pipe work (over ground) shall be painted with red oxide primer. Underground pipes should be laid after wrapping with approved PVC tape. Pipe wall thickness shall be as per mentioned diameters.				
186.1		Ce's-.-50 mm (2 inch) dia, wall thickness: 3.9mm	RFT	1200		
186.2		Ce's-.-40 mm (1.5 inch) dia. wall thickness: 3.7mm	RFT	490		
186.3		Ce's-.-32 mm (1.25 inch) dia. wall thickness: 3.5mm	RFT	410		
186.4		Ce's-.-25 mm (1 inch) dia. wall thickness: 3.4mm	RFT	570		
187		Ce's-14.78.1-SIGNALINC CABLE WITH PVC CONDUIT & ACCESSORIES Surface conduit wiring rvith the following FPLR/ l-Pl,P/ FPL type UL list?d / FM Approved / LPCB Approved cable. PVC lnsulation for each core shall be FR (Fire Rated) & Drain wire. shield (Aluminum Foil lape/ PET tape) shall meel the minimum requircment as per NEC (Nati;nal Eleclric Code) or NFPA 70 or BS. Jacket shall be Fire Rated. All electrical contacts shall be of brass / coppcr connected through connector or soldering (no twisling shall be allowed) . The work shall be carried out as per direction & approval ofthe Engineer in charge 2C-1.5 sqmm (FP[.R/ I.PLP/ FPL) cable with 1.5 sqmrn (FR) ECC wire through PVC pipe of minimum inner dia 25 mm having wall thickness of 1.5 mm	RM	2400		
188		**Cable** 1c-1.5 rm BYA; CABLE WITH PVC CONDUIT & ACCESSORIES Surface conduit wiring	Rm	900		
189		**Ce's-.FIRE EXTINGUISHER**				

189.1		Ce's-.DRY CHEMICAL POWDER TYPE	Nos	30		
189.2		Ce's-.CARBON-DI-OXIDE TYPE	Nos	30		
190		Ce's-Installation, Testing, Commissioning and Balancing of GAS CYLINDER WITH CO2 GAS System	Job	3		
191		Ce's-DRAWINGS & DOCUMENTATION	Job	1		
192		Ce's-Supply and installation of Fire "Exit sing" complete with other necessary accessories	Nos	24		
193		Ce's-Supply and installation of "Evacuation light" complete with rechargeable battery and charge light and other necessary accessories.	Nos	24		
		Sub Total for Part F (Fire Fighting System)				
Part G: Miscellaneous Item						
		Vertical Transportation System				
194		FUJI Brand Cargo Elevator MR, Capacity-3000kgs,3/3/3(G-2) stop/opening, Speed-0.5m/s, Design Drawing & Engineering Charge, Curator Commission, motor lifting, provide scaffolding, materials charge, Complete Assemble, Erection, commissioning, Testing, and others, others consumable Item (Local) for per unit of Elevator	Set	1		

195		HEAVY DUTY DOORSupply & Installation of Heavy Duty Door. The door shall be made with 1.5mm thick sheet steel painted with approved Cream color over a coat of primer. Thickness of the leaf shall be 40mm and filled with fire proof / resisting materials of minimum two hours rated. Accessories List: 1. Heavy Duty Security Door 2. Heavy Duty Door Handle Lock 3. Heavy Duty Door Closer Brand: Asico - UL Listed. Country of Origin: China.Size: a) 1500 mm x 2400 mm diaModel: OS8FLBrand: OnspotFace Capacity: 10000Fingerprint Capacity: 10000Card Capacity: 10000Password Capacity: 10000Record Capacity: 200000Communication: TCP/IP, RS485, USB2.0, U-Disk, Wi-Fi, ComputerAccess Control: Yes, 1x Relay, Wiegand In/Out, 26/34, door magnetism, bell, open button and electric lock etc.	L.S	5		
196		**Fire Rated Door:** Fire Door & accessories must be 2 (Two) hours fire rated & controlled by Fire alarm control panel, Fire door size shall be as per Architectural drawing.The Fire Door shall have following features:				
		Leaf Configurations: As per Architectural drawing, Door & panel: Minimum 45mm thick, Door frame: Pressed metal/ galvanized steel/ cold rolled mild steel, Door metal: Steel/ cold rolled MS sheet/ galvanized sheet/ hot dipped electro galvanized, Visions panel for fire door using clear rated glass, Hinge, Smoke seals, Door bottom seal, Swinging fire door closer, Vertical Rod, Escutcheon Lever trim with cylinder, Panic bars etc., Double Leaf Fire Door (W-1500mm x H-2400mm)	Set	9		
197		**Materials Test. (From BUET, DUET or EQUIVALENT) Materials Strength Test (Such as MS Plate, Concrete Cylinder, MS Bar etc.)**				
197.1		Concrete : Compressive Strength Test 28 days, Concrete Cylinders. Size-100X200 mm,150X300mm.	Set	8		
197.2		Cement: Compressive Strength (3,7 & 28 days)	Set	3		
197.3		Cement: Setting time (Initial & Final)	Set	3		
197.4		Reber : Tensile Strength Test.	Set	4		
197.5		Bend Test for Rebar	Set	4		
197.6		Rebend Test for Rebar	Set	4		
197.7		Stress Strain Curves (Mode of Elasticity)	Set	4		
197.8		Shear Test for Rod	Set	4		

197.9		Coarse Aggregate: Sieve Analysis	Set	1		
198		Coarse Aggregate: Unit Weight	Set	1		
198.1		Coarse Aggregate: Crushing Value	Set	1		
198.2		Coarse Aggregate: C.B.R	Set	1		
198.3		Coarse Aggregate: LOS Angeles Abrasion Test.	Set	1		
198.4		Absorption & Specific Gravity Test	Set	1		
198.5		Fine Aggregate: Sieve Analysis	Set	1		
198.6		Fine Aggregate: Unit Weight	Set	1		
198.7		Fine Aggregate: Absorption & Sp.Gravity Test.	Set	1		
198.8		Bricks: Crushing Strength	Set	1		
198.9		Bricks: Water Absorption	Set	1		
198.10		Bricks: Unit Weight	Set	1		
198.11		MS Plate : Tensile Strength Test.	Set	10		
198.12		Anchor Bolt Tension Test	Set	1		
198.13		Anchor Bolt Shear Test	Set	1		
198.14		Nut Bolt Tension Test	Set	4		
198.15		Nut Bolt Shear Test	Set	4		
198.16		Tensile Strength for Sandwich Panel	Set	1		
198.17		Tensile Module for Sandwich Panel	Set	1		
198.18		NDT Tests: In-Situ Scanning (quick & Image) per spot / location (for 2 scans)	Each	1		
198.19		**Preparation of Detailed Working / Shop Drawings (Fixed Rate Item)** Preparation of detailed, coordinated and execution-ready working/shop drawings based on the approved tender drawings and estimates for Architectural, Structural (RCC), Steel Structure, Plumbing & Sanitary, Electrical, HVAC and Firefighting systems, including all necessary calculations, layouts, sections, details and specifications required for proper execution of the works, complete in all respects and as per the directions and satisfaction of the Engineer. The rate for this item shall be fixed by the Procuring Entity and shall be quoted as such by the Tenderer. No alternative rate, condition or deviation shall be permitted or accepted under this item. (including VAT & Tax)	L.S	1	13,80,000/-	13,80,000/-

198.20		**Vetting of Working Drawings by BUET/DUET** Vetting of the detailed working/shop drawings and related design calculations for Structural (RCC), Steel Structure, Electrical, HVAC and Firefighting systems by BUET/DUET, including submission, liaison, review, incorporation of comments, resubmission and obtaining final vetting certificate, all complete as per contract requirements and to the satisfaction of the SPCBL Authority or Engineer-in-charge.	L.S	1		
Sub Total of Part G for Miscellaneous Item=						
Grand Total (Part A, Part B, Part C, Part D, Part E, Part F and Part G) Amount =						
In Word:						

Bill of Quantities

Name of Works:_____

IFT No._____ **Package No.**_____**Lot No.**_____

Item no.	Item Code (if any)	Description of Item	Unit	Quantity	Unit Rate		Amount	
					In figures	In words	In figures	In words
1	*2*	*3*	*4*	*5*	*6*	*7=6*	*8=5x6*	*9=8*
to be filled in by the Procuring Entity					*to be quoted and filled in by the Tenderer*			
100 General Items								
101 [example]	04-548-08 [example]	Excavate topsoil to maximum..... [example]	m3 [example]	35 [example] ample	Tk.55.15 [example]	Taka Fifty Five and Paisa Fifteen Only [example]	Tk.1,930.25 [example]	Taka One Thousand Nine Hundred Thirty and Paisa Twenty Five Only [example]
102								
103								
& so on								
Sub-total of 100 for General Items								
200 Preliminary Items								
201								
& so on								
Sub-total of 200 for Preliminary Items								
300 Main Items								
301								
& so on								
Sub-total of 300 for Main Items								
400 Other Items								
401								
& so on								
Sub-total of 400 for Other Items								
500 Misc. Items								
501								
502								
& so on								
Sub-total of 500 for Misc. Items								
GRAND TOTAL								

This BOQ contains [**insert number**] corrections duly initialled and signed by the authorised person of the Tenderer

_____

Note:

1. It is suggested that the Tenderer uses these sheets of the BOQ in order to avoid any manipulation, distortion and inadvertent mistakes or omissions in course of preparing the Tender by the Tenderer.
2. All unit rates and prices quoted by the Tenderers against each basic item or activity shall include the Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges and premiums for banking and insurances, as applicable and thus forth the total Tender Price quoted by the Tenderers.
3. Follow the Guidance notes under **Section 6** in filling this Schedule.

Schedule of Dayworks

Name of Works:_____

IFT No._____ **Package No.**_____**Lot No.**_____

Item no.	Item Code (if any)	Description Item	Unit	Nominal Quantity	Unit Rate		Amount	
					In figures	In words	In figures	In words
1	*2*	*3*	*4*	*5*	*6*	*7=6*	*8=5x6*	*9=8*
to be filled in by the Procuring Entity					*to be quoted and filled in by the Tenderer*			
A. DL 100 LABOUR								
DL 101	*01-013-02*	*Labourer*	***Hour***	***1575***				
DL 102		*Mason*	***Hour***	***520***				
DL 103		***Carpenter***	***Hour***	***300***				
& so on		***& so on***						
above are examples only								
Sub-total of 100 for DL 100 LABOUR:								
B. DM 200 MATERIALS								
DM 201		***Stone Boulders***	***m3***					
DM 202		***Cement***	***kg***					
DM 203		***GI Pipe***	***m***					
& so on								
above are examples only								
Sub-total of 200 for DM 200 MATERIALS:								
C. DE 300 CONTRACTOR'S EQUIPMENTS								
DCE 301		***Excavator***	***Hour***					
DCE 302		***Tractor***	***Hour***					
DCE 303		***Pay loader***	***Hour***					
& so on								
above are examples only								
Sub-total of 300 for DCE 300 CONTRACTOR'S EQUIPMENT :								
GRAND TOTAL OF DAYWORKS (A to C) [Section 6 ; GCC Sub Clause 76]								

Note:

1. Nominal quantities in the schedule shall remain invariable and shall also require prior approval of the authority sanctioning the official estimate.
2. All unit rates and prices quoted by the Tenderers against each basic item or activity shall include the Tenderer's profit, overheads, VAT and all other charges including corresponding incidental service charges and premiums for banking and insurances, as applicable and thus forth the total Tender Price quoted by the Tenderers 3. Follow the Guidance Notes under Section 6 in filling this Schedule.

Daywork Summary

Name of Works: _____

IFT No._____ Package No._____Lot No._____

Classification of Dayworks	Amount
1. Total for Daywork: Labour	
2. Total for Daywork: Materials	
3. Total for Daywork: Contractor's Equipment	
TOTAL FOR DAYWORKS **In Figures**	
In Words	

Note:

This Summary refers to Schedule of Dayworks

Summary of Provisional Sums

Name of Works:_____

IFT No._____ **Package No.**_____**Lot No.**_____

Item No	Description of Specified Provisional Sums	Amount
	Provisional Sums for Supply and Installation of Equipment in Pumping Station by [insert the name of the Nominated Subcontractor(s)]	BDT 1,25,000.00 ***[Subcontracted amount + percentage as in PCC Clause 75.2]***
	[example]	[example]
	Provisional Sums for physical contingencies or meeting other expenditures	Tk. 150,000.00 ***[Amount authorized in official estimate but must be ≤ 1% of Contract Price]***
	[example]	[example]
	TOTAL FOR PROVISIONAL SUMS	

Note:

1. Provisional Sums for meeting expenditures may not exceed one (1) percent of the estimated Contract Price and its inclusion in the BOQ shall also require prior approval of the authority sanctioning the official estimate.
2. Follow the Guidance Notes under **Section 6** in filling this Schedule.

Grand Summary

Name of Works:_____

IFT No._____ **Package No.**_____**Lot No.**_____

Contract Name: _____ Contract No.:_____

General Summary		Reference	Amount
1.	**100 General Items**		
2.	**200 Preliminary Items**		
3.	**300 Main Items**		
4.	**400 Other Items**		
5.	**500 Misc. Items**		
6.	**Dayworks**		
	Subtotal of (1-6):		
7.	**Provisional Sums [GCC Sub Clause 75]**		
TOTAL CONTRACT PRICE FOR THE WORKS (1-7)		**In figures**	
		In words	

Section 7. General Specifications

Technical Specification: All technical specifications have been described in detail in the Bill of Quantities (BOQ). The construction works shall be executed strictly in accordance with the technical specifications, drawings, and requirements stipulated in the BOQ.

Section 8. Particular Specifications

Notes on Particular Specifications
SPCBL is a KPI 1(A) categorized security organization. In addition to banknotes and currency notes, various security materials for different government agencies are also printed here. The proposed security boundary wall is a vital structure for ensuring the overall security of the organization. Therefore, during the construction period, the work must be carried out with due consideration to the security importance of the organization, ensuring comprehensive security measures throughout.

Section 9. Drawings

Notes on Drawings

Insert here a list of Drawings. The actual Drawings, including site plans, should be attached to this section or annexed in a separate folder. The Drawings shall be dated, numbered and show the revision number.

FORMAT

LOGO

[Insert Full Contact Details of the Procuring Entity]

Commencement of Works

Office Memo No: Date:

To:

[Name of Contractor]
[Address)

Contract Reference:

Pursuant to GCC Sub Clause 39.1 of the above mentioned Contract Agreement, this is to notify you that the following precedent conditions have been duly fulfilled:

(i) the Contract Agreement has been signed;
(ii) the possession of the Site has been given; and
(iii) the advance payment has been made*(delete if not appropriate).*

You are therefore requested to:

1. Commence execution of the Works, in accordance with GCC Sub Clause 1.1(nn), within*(specify date)*;
2. Submit Insurance Policy Documents, in accordance with GCC Sub Clause 36.2, within (*specify date*)
3. Submit Programme of Works, in accordance with GCC Sub Clause 41.1, within (*specify date*)

Signed

Duly authorised to sign for and on behalf of
[name of Procuring Entity]

Date:

FORMAT

LOGO

[Insert Full Contact Details of the Procuring Entity]

CONTRACT AMENDMENT

Contract No.	
Amendment No.	
Approval Reference No.	

Contract No. [insert number/year] by and between the [insert Procuring Entity's name] and [insert Contractor's legal title] for the contract named [insert name of the Works and physical services] is amended as follows:

1. GCC Clause [insert clause no], is hereby revised as _____
_____
_____

2. GCC Clause [insert clause no], is hereby revised as _____
_____
_____

and so on .

The effective date of this Amendment is [insert effective date] or upon execution whichever is later.

ALL OTHER TERMS AND CONDITIONS OF THE ORIGINAL CONTRACT SHALL REMAIN IN FULL FORCE AND EFFECT

THIS AMENDMENT, consisting of [insert number] page(s) and [insert number] attachment(s), is executed by the persons signing below who warrant that they have the authority to execute this Amendment under the original Contract.

IN WITNESS WHEREOF, the Procuring Entity and the Contractor have signed this Amendment.

[Contractor's Authorized Signatory]	[Procuring Entity's Authorized Signatory]
_____	_____
Signature	Signature
_____	_____
Title Date	Title Date

FORMAT

LOGO

[Insert Full Contact Details of Issuing Authority]

Office Memo no: _____ Date: _____

COMPLETION CERTIFICATE

01	Procuring Entity Details		
	(a) Division	:	
	(b) Circle/Directorate	:	
	(c) Zone/Region	:	
	(d) Others (*specify*)	:	
02	Name of Works	:	
03	Contract No	:	
04	Contractor's Legal Title	:	
05	Contractor's Contact Details	:	
06	Contractor's Trade License/Enlistment/Registration Details	:	
07	Reference to NOA with Date	:	
08	Original Contract Price as in NOA	:	
09	Final Contract Price as Executed	:	
10	Original Contract Period		
	(a) Date of Commencement	:	
	(b) Date of Completion	:	
11	Actual Implementation Period		
	(a) Date of Actual Commencement	:	
	(b) Date of Actual Completion	:	
12	Days/Months Contract Period Extended	:	
13	Amount of Bonus for Early Completion	:	
14	Amount of LD for Delayed Completion	:	
15	Physical Progress in Percent (*in terms of value*)	:	
16	Financial Progress in Amount (*in terms of payment*)	:	
17	Special Note (*if any*)	:	

Certified that the Works under the Contract has been executed and completed in all respects in strict compliance with the provisions of the Contract including all plans, designs, drawings, specifications and all modifications thereof as per direction and satisfaction of the Project Manager/Engineer-in Charge/Other (*specify*). All defects in workmanship and materials reported during construction have been duly corrected.

_____

Name and Signature of the Issuing Authority with Designation

please turn over

Details of Works Completed

Contractor: [insert legal title]		
No	**Major Components of Works**	**Total Value (in Contract Currency)**

Joint Venture

[delete, if not appropriate]

Leading Partner: [insert legal title]		
No	**Components/Activities [reference drawn to JV Partner Information]**	**Value (in Contract Currency)**

Co-partner: [insert legal title]		
No	**Components/Activities [reference drawn to JV Partner Information]**	**Value (in Contract Currency)**

Co-partner: [insert legal title]		
No	**Components/Activities [reference drawn to JV Partner Information]**	**Value (in Contract Currency)**

Note: Figures shown must correspond to Total Value

Sub-contractor

[delete, if not appropriate]

Named Sub-contractor: [insert legal title] [delete, if not appropriate]		
No	**Components/Activities [reference drawn to Sub-contractor Information]**	**Value (in Contract Currency)**
Nominated Sub-contractor: [insert legal title] [delete, if not appropriate]		
No	**Components/Activities [reference drawn to PCC of Contract Document]**	**Value (in Contract Currency)**

_____

Name and Signature of the Issuing Authority with Designation