

Bangladesh Power Development Board



**Tender Document for
Procurement of**

Supply of 11kV Incoming Switchgear Panel (Tongi Store)

(International)

Open Tendering Method

(As per CPTU STD PG-4)

International Tender No.: 27.11.0000.304.

Date:

Package No. GRF-40

FY: 2023-2024

**Directorate of Purchase,
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REJECTION CLAUSES

(Tender must comply with the following criteria, otherwise tender shall be rejected)

1. Tenderer shall have to comply with Eligibility criteria (ITT 5), Litigation history (ITT 13), Experience criteria (ITT 14), financial Criteria (ITT15);
2. Goods & related service to be supplied must be eligible (ITT 6.1)
3. Tenderer shall submit only one tender for each lot (ITT17)
4. Tender Submission Letter (Form PG4-1) shall be properly filled up by the Tenderer (ITT 21.1 a);
5. Tenderer information sheet (Form PG4-2) shall be properly filled up and required documents to be attached by the Tenderer (ITT 21.1 b);
6. The Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D) shall be properly filled up by the Tenderer (ITT 21.1 c). Tenderers are not allowed to change/ modify the format of Price Schedule.
7. The Specifications Submission and Compliance Sheet (Form PG4-4) shall be properly filled up by the Tenderer (ITT 21.1 e);
8. Tenderer shall submit valid tax identification number and VAT registration number or any any other document to fulfil of taxation obligations as per ITT 21.1(K)
9. To establish the conformity of the Goods and Related Services to the Tender Documents, the Tenderer shall furnish as part of its Tender the documentary evidence that the Goods and Related services conform to the technical specifications and standards in Section 7, Technical Specifications
10. Technical Alternatives shall not be considered [ITT 22.1]
11. Tenderer must quote 100% items specified for each lot and 100% quantities specified for each item of that lot (ITT 23.5);
12. If Tenderer does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization Letter (Form PG4-5) furnished in Section 5: Tender and Contract Forms as per ITT26.1(b)
13. Tender shall remain valid for the period specified in TDS after the date of Tender submission deadline (ITT 27.2);
14. Tender must be accompanied by a valid Tender Security (ITT 31.3);
15. Tender must be accompanied by Letter of Authorization the Signatory to sign the Tender on behalf of the Tenderer (ITT 34.3);
16. Tender must comply the scope of supply as stated under Section 6, Schedule of Requirements without any material deviation or reservation (ITT 46.2d);
17. Tenderer shall have to comply with the payment terms [GCC 27];
18. Tenderer shall have to comply with the Delivery and Completion Schedule specified in Price Schedule & Section 6: Schedule of Requirements.
19. Tenderer shall have to submit sealed & signed tender document [ITT {TDS 21.1(q)(1)}].
20. Compliance certificate confirming to the terms and condition of the tender document [ITT {TDS 21.1(q)(6)}].
21. Tenderer shall have to submit warranty certificate (Form PG4-12)[ITT {TDS 21.1(q)(8)}];
22. Tenderer shall submit Manufacturer's Printed Catalogue as per [ITT {TDS 21.1(q)(10)}];
23. Tenderer shall have to submit Certificate from the manufacturer confirming that his offered items are new, unused, in good condition and confirmed all features & accessories stated in Section 7: Technical Specification [ITT {TDS 21.1(q) (14)}];
24. If Tenderer has any reservation, Tenderer has to mention it in Deviation list (Form PG4-11) [ITT {TDS 21.1(q) (15)}];
25. Tenderer shall submit Guaranteed Technical Particulars (GTP) Section 8 shall be properly filled up in manufacturer's official pad with submission of related supporting documents & signed by the Manufacturer & Tenderer [ITT {TDS 21.1(q)(16)}];
26. Tenderer shall submit Manufacturer's Supply Experience [ITT {TDS 21.1(q)(17)}];
27. Tenderer Shall submit Satisfactory Performance Certificate [ITT {TDS 21.1(q)(18)}];
28. All pages of the original and of each copy of the Tender shall be numbered sequentially and signed or initialled by the person signing the Tender [ITT 34.5]
29. Tenderer shall submit Type Test Certificates & Reports as per [ITT {TDS 21.1(q)(19)}].

Section 1. Instructions to Tenderers

A. General

- 1. Scope of Tender**
 - 1.1 The Purchaser named in the Tender Data Sheet (TDS) (hereinafter referred to as the "Purchaser") wishes to issues these Tender Documents for the supply of Goods, and Related Services incidental thereto, as specified in the TDS and as detailed in Section 6: Schedule of Requirements.
 - (a) 1.2 The name of the Tender and the number and identification of its constituent lot(s) are stated in the TDS.
 - (b) 1.3 The successful Tenderer will be required to complete the delivery of the goods and related services (when applicable) as specified in the GCC Clause **18**.
- 2. Interpretation**
 - 2.1 Throughout this Tender Document
 - (a) the term "in writing" means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail;
 - (b) if the context so requires, singular means plural and vice versa; and
 - (c) "day" means calendar days unless otherwise specified as working days;
 - (d) "Tender Document ", means the Document provided by a Purchaser to a Tenderer as a basis for preparation of its Tender;
 - (e) "Tender ", depending on the context, means a Tender submitted by a Tenderer for delivery of Goods and Related Services to a Purchaser in response to an Invitation for Tender ;
- 3. Source of Funds**
 - 3.1 The Purchaser has been allocated public funds from the source 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.
 - 3.2 For the purpose of this provision, "public funds" means any funds allocated to a Purchaser under Government budget, or loan, grants and credits placed at the disposal of a Purchaser through the Government by the development partners or foreign states or organizations.
 - 3.3 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 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 or Coercive Practices

- 4.1 The Government requires that Procuring Entities, as well as Tenderers shall observe the highest standard of ethics during implementation of procurement proceedings and the execution of Contracts under public funds.
- 4.2 The Government requires that Procuring Entities, as well as Tenderers and Suppliers shall, during the Procurement proceedings and the execution of Contracts under public funds, ensure-
- (a) strict compliance with the provisions of Section 64 of the Public Procurement Act 2006 (Act 24 of 2006);
 - (b) abiding by the code of ethics as mentioned in the Rule 127 of the Public Procurement Rules, 2008;
 - (c) that neither it's any officer nor any staff or any other agents or intermediaries working on its behalf engages in any practice as detailed in ITT Sub Clause 4.3.
- 4.3 For the purposes of ITT Sub-clause 4.2 the terms set forth as bellows:
- (a) **corrupt practice** means offering, giving or promising to give, receiving, or soliciting, either directly or indirectly, to any officer or employee of a Purchaser 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 Purchaser 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 Purchaser, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, non competitive levels, thereby denying a Purchaser the benefits of competitive price arising from genuine and open competition; or
 - (d) **coercive practice** means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in a Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.
- 4.4 Should any corrupt, fraudulent, collusive or coercive practice of any kind come to the knowledge of the Purchaser, it will, in the first place, allow the Tenderer to provide an explanation and shall, take actions only when a satisfactory explanation is not received. Such exclusion and the reasons thereof, shall be recorded in the record of the procurement proceedings and promptly communicated to the Tenderer concerned. Any communications between the Tenderer and the Purchaser related to matters of alleged fraud or corruption shall be in writing.

- 4.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Purchaser against any Tenderer alleged to have carried out such practices, the Purchaser shall -
- (a) exclude the concerned Tenderer from further participation in the particular Procurement proceeding; or
 - (b) reject any recommendation for award that had been proposed for that concerned Tenderer or;
 - (c) 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.
- 4.6 The Tenderer 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 others as stated in GCC Clause 3.

5. Eligible Tenderers

- 5.1 This Invitation for Tenders is open to eligible Tenderers from all countries, except for any specified in the TDS. A Tenderer will be eligible if it is a citizen, or is constituted, registered and operates in conformity with the provisions of the laws of that country.
- 5.2 A Tenderer may be a physical or juridical individual or body of individuals, or company, association invited to take part in public procurement or seeking to be so invited or submitting a Tender in response to an Invitation for Tenders.
- 5.3 Government-owned enterprises in Bangladesh shall be eligible only if they can establish that they (i) are legally and financially autonomous, (ii) operate under commercial law, and (iii) are not a dependent agency of the Purchaser.
- 5.4 Tenderers shall have the legal capacity to enter into the Contract. A Tenderer that is under a declaration of ineligibility by the Government of Bangladesh in accordance with applicable laws at the date of the deadline for Tender submission or thereafter shall be disqualified.
- 5.5 Tenderers and all parties constituting the Tenderer shall not have a conflict of interest pursuant to Rule 55 of the Public Procurement Rules, 2008.
- 5.6 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 4.3.
- 5.7 Tenderers are not restrained or barred from participating in public Procurement on grounds of execution of defective supply in the past under any Contract.
- 5.8 Tenderers are not under a declaration of ineligibility by an international financing agency such as World Bank, Asian

Development Bank or any other international agency.

- 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 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. In the case of foreign Tenderers, a certificate of competent authority in that country of which the Tenderer is citizen shall be provided.
- 5.11 Tenderers shall provide such evidence of their continued eligibility satisfactory to the Purchaser, as the Purchaser will reasonably request.
- 5.12 These requirements for eligibility will extend, as applicable, to Sub-contractor proposed by the Tenderer.

6. Eligible Goods and Related Services

- 6.1 All goods and related services to be supplied under the contract are eligible, unless their origin is from a country specified in the TDS.
- 6.2 For purposes of this Clause, the term “goods” includes commodities, raw material, machinery, equipment, and industrial plants; and “related services” includes services such as insurance, transportation, installation, and commissioning, training, and initial maintenance.
- 6.3 For purposes of this clause, “origin” means the country where the goods have been mined, grown, cultivated, produced, manufactured or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 6.4 The origin of goods and services is distinct from the nationality of the Tenderer. The nationality of the firm that produces, assembles, distributes, or sells the goods shall not determine their origin.

7. Site Visit

- 7.1 For goods contracts requiring installation/ commissioning/ networking or similar services at site, the Tenderer, at the Tenderer’s own responsibility and risk, is encouraged to visit and examine the Site and obtain all information that may be necessary for preparing the Tender and entering into a contract for the supply of goods and related services.
- 7.2 The Tenderer should ensure that the Purchaser is informed of the visit in adequate time to allow it to make appropriate arrangements.
- 7.3 The costs of visiting the Site shall be at the Tenderer’s own expense.

B. Tender Document

8. Tender Document:

- 8.1 The Sections comprising the Tender Document are listed below and should be read in conjunction with any addendum issued under ITT

General

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 Schedule of Requirements
- Section 7 Technical Specifications
- Section 8 Drawings

8.2 The Purchaser shall reject any Tender if the Tender Document was not purchased directly from the Purchaser, or through its agent as stated in the TDS.

8.3 The Tenderer is expected to examine all instructions, forms, terms, and specifications in the Tender Document as well as addendum to Tender Documents.

9. Clarification of Tender Documents

9.1 A prospective Tenderer requiring any clarification of the Tender Document shall contact the Purchaser in writing at the Purchaser's address indicated in the TDS before **two-third** of time allowed for preparation and submission of Tender elapses.

9.2 A Purchaser is not obliged to answer any clarification received after that date requested under ITT Sub-Clause 9.1.

9.3 The Purchaser shall respond in writing within five (5) working days of receipt of any such request for clarification received under ITT Sub-Clause 9.1

9.4 The Purchaser 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.

9.5 Should the Purchaser deem it necessary to amend the Tender Document as a result of a clarification, it shall 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 Purchaser 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 to attend the meeting, if it is held.

10.2 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 one week (7 days) after holding the meeting to all those who purchased the Tender Document and even those who did not attend the meeting.

10.3 Any amendment to the Tender Document listed in ITT Sub-Clause 8.1 that may become necessary as a result of the pre-Tender meeting shall be made by the Purchaser exclusively through the issue of an Addendum as stated under 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 Documents

11.1 At any time prior to the deadline for submission of Tenders, the Purchaser on its own initiative or in response to a clarification request 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 pursuant to Rule 95 of the Public Procurement Rules, 2008.

11.2 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 shall 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.

11.3 The Tenderer shall acknowledge receipt of an addendum.

11.4 Tenderers who have purchased the Tender Documents but have not received any addendum issued under ITT Sub-clause 11.1 shall inform the Purchaser of the fact by fax, mail or e-mail before **two-third** of the time allowed for the submission of Tenders has elapsed.

11.5 Procuring Entities shall also ensure posting of relevant addenda with the reference number and date on their website.

11.6 To give a prospective Tenderer reasonable time in which to take an amendment into account in preparing its Tender, the Purchaser may, at its discretion, extend the deadline for the submission of Tenders, pursuant to Rule 95(6) of the Public Procurement Rule, 2008 and under ITT Clause 36.

11.7 If an addendum is issued when time remaining is less than one-third of the time allowed for the preparation of Tenders, a Purchaser 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. The minimum time for such extension shall not be less than seven (7) days.

C. Qualification Criteria

12. General Criteria

12.1 The Purchaser requires the Tenderer to be qualified by meeting predefined, precise minimum requirements, which entails setting pass/fail criteria, which if not met by the Tenderer, will result in rejection of its Tender.

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- 12.2 In addition to meeting the eligibility criteria, as stated in ITT Clause 5, the Tenderer must satisfy the other criteria stated in ITT Clauses 13 to 15 inclusive.
- 12.3 To qualify for a multiple number of lots in a package for which tenders are invited in the Invitation for Tenders, The Tenderer shall demonstrate having resources and experience sufficient to meet the aggregate of the qualifying criteria for the individual lot. The requirement of overall experience and specific experience under ITT Sub-Clause 14.1 (a) and 14.1 (b) shall not be separately applicable for individual lot.
- 13. Litigation History**
- 13.1 The maximum number of arbitration awards against the Tenderer over a period shall be as specified in the TDS.
- 14. Experience Criteria**
- 14.1 Tenderers shall have the following minimum level of supply experience to qualify for supplying the Goods and Related Services under the contract:
- (a) A minimum number of years of overall experience in the supply of goods and related services as specified in the TDS; and
 - (b) Specific experience of satisfactory completion of supply of similar goods of minimum value stated in the TDS under maximum number of contracts stated in TDS within the period stated in TDS; and
 - (c) A minimum supply and/or production capacity of Goods as specified in the TDS.
- 15. Financial Criteria**
- 15.1 Tenderers shall have the following minimum level of financial capacity of qualify for the supply of goods under the contract:
- (a) Availability of minimum liquid assets or working capital or credit facilities from a Bank, as specified in the TDS.
- 16. Appointment of Subcontractor**
- 16.1 Tenderer, pursuant to Rule 53 of the PPR2008, is allowed to sub-contract a portion of the Supply.
- 16.2 The Tenderer shall specify in its Tender all portion of the Goods that will be Subcontracted, if any, including the entity(ies) to whom each portion will be subcontracted to, subject to the maximum allowable limit for subcontracting of Goods specified in the TDS.
- 16.3 All subcontracting arrangement must be disclosed at the time of Tendering, and subcontractors must be identified in the Tender submitted by Tenderer.
- 16.4 A Subcontractor may participate in more than one Tender, but only in that capacity.
- 16.5 Subcontractors must comply with the provision of ITT Clause 5. For this purpose contractor shall complete the Subcontractor's

information in Form PG4-1 for submission with tender.

- 16.6 If the Purchaser determines that a subcontractor is ineligible, the subcontracting of such portion of the Goods assigned to the ineligible subcontractor shall be disallowed.

D. Tender Preparation

17. Only One Tender

- 17.1 If a Tender for Goods is invited on 'lot-by-lot' basis, each lot shall constitute a Tender. A Tenderer shall submit only one (1) Tender for each lot, A Tenderer who submits or participates in more than one (1) Tender for each lot will cause all the Tenders with that Tenderer's participation to be rejected.

18. Cost of Tendering

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

19. Issuance and Sale of Tender Document

- 19.1 A Purchaser, pursuant to Rule 94 of the Public Procurement Rules,2008 shall make Tender Documents available immediately to the potential Tenderers, requesting and willing to purchase at the corresponding price if the advertisement has been published in the newspaper pursuant to Rule 90 of the Public Procurement Rules,2008.
- 19.2 Full contact details with mailing address, telephone and facsimile numbers and electronic mail address, as applicable, of those to whom Tender Documents have been issued shall be recorded with a reference number by the Purchaser or its agent.
- 19.3 There shall not be any pre-conditions whatsoever, for sale of Tender Document and the sale of such Document shall be permitted up to the day prior to the day of deadline for the submission of Tender.

20. Language of Tender

- 20.1 Tenders shall be written in English language. Supporting documents and printed literature furnished by the Tenderer may be in another language provided they are accompanied by an accurate translation of the relevant passages into the English language, in which case, for purposes of interpretation of the Tender, such translation shall govern.
- 20.2 Tenderers shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

21. Contents of Tender

- 21.1 The Tender prepared by the Tenderer shall comprise the following:
- (a) Tender Submission Letter (Form PG4-1) as furnished in Section 5: Tender and Contract Forms;
 - (b) Tenderer information sheet (Form PG4-2) as furnished in Section 5: Tender and Contract Forms;
 - (c) The completed Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D) as furnished in Section 5: Tender and Contract Forms as stated under ITT Clauses 23 and 24;
 - (d) Tender Security as stated under ITT Clause 29,30 and 31;
 - (e) The completed Specifications Submission and Compliance Sheet (Form PG4-4) as furnished in Section 5: Tender and Contract Forms as stated under ITT clause 25.2;
 - (f) Alternatives, if permitted, as stated under with ITT Clause 22;
 - (g) Written confirmation authorising the signatory of the Tender to commit the Tenderer, as stated under ITT Sub-Clause 34.3;
 - (h) The completed eligibility declarations, to establish its eligibility as stated under ITT Clause 5, in the Tender Submission Sheet (Form PG4-1), as furnished in section 5: Tender and Contract Forms;
 - (i) An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the Tenderer or employees of a Tenderer entering into or signing a Contract with the Purchaser as stated under ITT clause 5;
 - (j) An affidavit confirming that the Tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing as stated under ITT Clause 5;
 - (k) A certificate issued by the competent authority stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Purchaser demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfillment of taxation obligations as stated under ITT Clause 5. In the case of foreign Tenderers, a certificate of competent authority in that country of which the Tenderer is citizen shall be provided ;
 - (l) Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh or in case of foreign tenderer in their country of origin or a certificate concerning their competency issued by a professional institution in accordance with the law of the country of their origin, as stated under ITT Clause 5;

- (m) The country of origin declarations, to establish the eligibility of the Goods and Related Services as stated under ITT Clause 6, in the Price Schedule for Goods and Related Services (Form PG4-3B, 3C and PG4-3D) as, applicable, furnished in Section 5: Tender and Contract Forms;
- (n) Documentary evidence as stated under ITT Clauses 25, that the Goods and Related Services conform to the Tender Documents;
- (o) Documentary evidence as stated under ITT Clause 26 that the Tenderer's qualifications conform to the Tender Documents;
- (p) Documents establishing legal and financial autonomy and compliance with commercial law, as stated under ITT Sub-clause 5.3 in case of government owned entity; and
- (q) Any other document as specified in the TDS.

21.2 The Tenderer shall submit the Tender Submission Letter (Form PG4-1) as furnished in Section 5: Tender and Contract Forms. This form must be completed without any alterations to its format, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.

21.3 The Tenderer shall submit the completed Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D), according to their origin as appropriate as furnished in section 5: Tender and Contract Forms.

22. Alternatives

22.1 Unless otherwise stated in the TDS, alternatives shall not be considered.

23. Tender Prices, Discounts

23.1 The prices and discounts quoted by the Tenderer in the Tender Submission Letter (Form PG4-1) and in the Price Schedule (Form PG4-3A, 3B, 3C and PG4-3D) shall conform to the requirements specified below.

23.2 All lots or items as listed in Section 6: Schedule of Requirements must be listed and priced separately on the Price Schedule following the Form PG4-3A, 3B, 3C and PG4-3D as applicable.

23.3 Tenders are being invited either for a single lot or for a number of lots on 'lot-by-lot' basis, as specified in the TDS.

23.4 Each lot shall constitute a Tender, If Tenders for Goods are invited on 'lot-by-lot' basis.

23.5 Tenders being invited for a single lot or for a number of lots on 'lot-by-lot' basis, price quoted shall correspond to 100% of the items specified for each lot and to 100% of the quantities specified for each item of that particular lot and shall correspond to 100% of the total offered lot value, unless otherwise stated in the TDS

- 23.6 A Lot Tender not offering minimum number of items of those being priced based on percentage of the total number of items, and, the corresponding minimum value based on percentage of the total lot value, as specified in the ITT Sub-Clause 23.5 shall also be considered non-responsive.
- 23.7 Subject to ITT Sub-Clause 23.5, a Lot tender not offering a particular item which represents more than fifty percent (50%) of the estimated lot value identified by the Purchaser and specified in the TDS, even if it complies with the requirement of minimum number of items based on percentage of the total number of items as stated under ITT Sub Clause 23.5, shall be considered non-responsive.
- 23.8 The price to be quoted in Tender Submission Letter (Form PG4-1) shall be the total price of the Tender, excluding any discounts offered, only **in case of being awarded more than one lot**, by the Tenderer
- 23.9 The Tenderer wishing to offer any discount shall indicate the methodology for their application in the Tender Submission Letter (Form PG4-1) **for being awarded of more than one lot**.
- 23.10 Prices shall be quoted as specified in each Price Schedule (Form PG4-3A, 3B, 3C and PG4-3D) as applicable. The dis-aggregation of price components is required solely for the purpose of facilitating the comparison of tenders by the Purchaser. This shall not in any way limit the Purchaser's right to contract on any of the terms offered. In quoting prices, the Tenderer shall be free to use transportation through carriers registered in any eligible Countries. Similarly, the Tenderer may obtain insurance services from any eligible country. Prices shall be entered in the following manner:
- 23.11 For Goods, manufactured within Bangladesh, the prices in the Price schedule (Form PG4-3A) shall be entered separately in the following manner:
- (a) the price of the Goods quoted EXW (ex works, ex factory, ex warehouse, ex showroom, or off-the-shelf, as applicable), including all customs duties and import vat and other taxes already paid or payable on the components and raw material used in the manufacture or assembly of the Goods;
 - (b) VAT payable on account of supplier, if the contract is awarded ; and
 - (c) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS.

23.12 For Goods, manufactured outside Bangladesh, to be imported, the prices in the Price schedule (Form PG4-3B) shall be entered separately in the following manner:

- (a) the price of the Goods, quoted CIP (named place of destination, in the Bangladesh) or CIF (named port of destination, in Bangladesh) as specified in the TDS;
- (b) VAT payable on account of supplier, if the contract is awarded; and
- (c) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS;
- (d) in addition to the CIP/CIF prices specified in 23.12(a) above, the price of the Goods to be imported may be quoted in other *INCOTERM* and shall be governed by the rules prescribed in the current edition of *INCOTERM* published by the International Chamber of Commerce, Paris, if so specified in the TDS;

23.13 For Goods, manufactured outside Bangladesh, already imported, the prices in the Price schedule (Form PG4-3C) shall be entered separately in the following manner:

- (a) the price of the Goods, including the original import value of the Goods; plus any mark-up ; plus any other related local cost, and custom duties, import VAT and other import taxes already paid on the Goods already imported.
- (b) the custom duties, import VAT and other import taxes already paid (need to be supported with documentary evidence) on the Goods already imported;
- (c) the price of the Goods, obtained as the difference between (a) and (b) above;
- (d) VAT payable on account of supplier, if the contract is awarded; and
- (e) the price for inland transportation, insurance, and other local costs for the delivery of the Goods to their final destination (Project Site) specified in the TDS.

[For previously imported Goods, the quoted price shall be distinguishable from the original import value of these Goods declared to customs and shall include any rebate or mark-up of the local agent or representative and all local costs except import duties and taxes, which have been paid. For clarity the tenderers are asked to quote the price including import duties, and additionally to provide the import duties and the price net of import duties which is the difference of those values.]

23.14 for Related Services, other than inland transportation and other services required to convey the Goods to their final destination, whenever such Related Services are specified in the Schedule of

Requirements, the prices in the price schedule (Form PG4-3D) shall be entered in the following manner :

- (a) the price of each item comprising the Related Services (inclusive of any applicable taxes).

24. Tender Currency

24.1 For expenditures that will be incurred in Bangladesh, the Tenderer shall quote the prices in Bangladesh Taka.

24.2 Suppliers offering Goods manufactured or assembled in Bangladesh, are permitted to submit their Tender in a combination of local and foreign currencies.

24.3 For expenditures that will be incurred outside Bangladesh, the Tenderer may quote the prices in USD or GBP or EUR or JPY as specified in TDS.

25. Documents Establishing the Conformity of the Goods and Related services

25.1 To establish the conformity of the Goods and Related Services to the Tender Documents, the Tenderer shall furnish as part of its Tender the documentary evidence that the Goods and Related services conform to the technical specifications and standards in Section 7, Technical Specifications.

25.2 Documentary evidence of conformity of the Goods and services to the Tender Documents may be in the form of literature, drawings, and data, and shall consist of:

- (a) a detailed description of the essential technical and performance characteristics of the Goods;
- (b) if so required in TDS, tenderer shall also furnish a list giving full particulars, including available sources and current prices of spare parts, special tools, etc., necessary for the proper and continuing functioning of the Goods during the period specified in the TDS, following commencement of the use of the Goods by the Purchaser ; and
- (c) an item-by-item commentary on the Purchaser's Technical Specifications demonstrating substantial responsiveness of the Goods and Related services to those specifications, or a statement of deviations and exceptions to the provisions of Section 7. Technical Specifications.

26. Documents Establishing Qualifications of the Tenderer

26.1 The documentary evidence of the Tenderer's qualifications to perform the contract if its Tender is accepted shall establish to the Purchaser's satisfaction:

- (a) that the Tenderer meets each of the qualification criterion specified in Sub-Section C, Qualification Criteria of the ITT;
- (b) that, if required in the TDS, a Tenderer that does not manufacture or produce the Goods it offers to supply shall submit the Manufacturer's Authorization Letter (Form PG4-5) furnished in Section 5: Tender and Contract Forms, to demonstrate that it has been duly authorized by the manufacturer or producer of the Goods to supply the Goods to Bangladesh.; and

- (c) that, if required in the TDS, in case of a Tenderer not doing business within Bangladesh, the Tenderer is or will be (if awarded the contract) represented by an Agent in the country equipped and able to carry out the Supplier's maintenance.
- (d) adequacy of minimum liquid assets i.e. working capital substantiated by Audit Reports or Bank Statement or credit line(s) substantiated in the format as specified (**Form PG4-6A**), without alteration as stated under ITT Sub Clause 15.1(a);

27. Validity Period of Tender

- 27.1 Tender validities shall be determined on the basis of the complexity of the Tender and the time needed for its examination, evaluation, approval of the Tender and issuance of the Notification of Award pursuant to Rule 19 and 20 of the Public Procurement Rules,2008.
- 27.2 Tenders shall remain valid for the period specified in the TDS after the date of Tender submission deadline prescribed by the Purchaser, as stated under ITT Clause 36. A Tender valid for a period shorter than that specified will be rejected by the Purchaser as non- responsive.

28. Extension of Tender Validity and Tender Security

- 28.1 In justified exceptional circumstances, prior to the expiration of the Tender validity period, the Purchaser following Rule 21 of the Public Procurement Rules,2008 may solicit, **not later than ten (10) days** before the expiry date of the Tender validity, compulsorily all the Tenderers' consent to an extension of the period of validity of their Tenders.
- 28.2 The request for extension of Tender validity period shall state the new date of the validity of the Tender.
- 28.3 The request from the Purchaser and the responses from the Tenderers will be made in writing.
- 28.4 Tenderers consenting in writing to the request made by the Purchaser under ITT Sub-Clause 28.1 shall also correspondingly extend the validity of its Tender Security for twenty-eight (28) days beyond the new date for the expiry of Tender validity.
- 28.5 Tenderers consenting in writing to the request under ITT Sub-Clause 28.1 shall not be required or permitted to modify its Tender in any circumstances.
- 28.6 If the Tenderers are not consenting in writing to the request made by the Purchaser under ITT Sub-Clause 28.1, its Tender will not be considered for subsequent evaluation.

29. Tender Security

- 29.1 The Tender Security and its amount shall be determined sufficient to discourage the submission of frivolous and irresponsible tenders pursuant to Rule 22 of the Public Procurement Rule,2008 and shall be expressed as a rounded fixed amount and, shall not be stated as a precise percentage of the estimated total Contract value.
- 29.2 The Tenderer shall furnish as part of its Tender, in favour of the Purchaser or as otherwise directed on account of the Tenderer as

specified in TDS.

29.3 Amount of the Tender security may be determined on the basis of different percentages for each lot, but the amount in fixed and currency as specified in TDS, if so indicated that the Tenders are invited on lot-by-lot basis under ITT Sub Clause 23.3

30. Form of Tender security

30.1 The Tender Security shall be in the form of an irrevocable bank guarantee issued by an internationally reputable bank and shall require to be endorsed by its any correspondent bank located in Bangladesh, to make it enforceable, in the format (Form PG4-6) furnished in Section 5: Tender and Contract Forms;

30.2 be payable promptly upon written demand by the Purchaser in the case of the conditions listed in ITT Clause 33 being invoked; and

30.3 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 detailed under ITT Clause 33 and pursuant to Rule 25 of the Public Procurement Rules,2008.

31. Authenticity of Tender Security

31.1 The authenticity of the Tender security submitted by a Tenderer shall be examined and verified by the Purchaser in writing from the Bank issuing the security, prior to finalization of the Evaluation Report pursuant to Rule 24 of the Public Procurement Rule, 2008.

31.2 If a Tender Security is found to be not authentic, the Tender which it covers shall not be considered for subsequent evaluation and in such case the Purchaser shall proceed to take punitive measures against that Tenderer as stated under ITT Sub-Clause 4.6, pursuant to Rule 127 of the Public Procurement Rules, 2008 and in accordance with Section 64(5) of the Public Procurement Act, 2006.

31.3 Tender not accompanied by a valid Tender Security as stated under Sub-Clause 29, 30 and 31, shall be considered as non-responsive.

32. Return of Tender Security

32.1 No Tender security shall be returned by the Tender Opening Committee (TOC) during and after the opening of the Tenders pursuant to Rule 26 of the Public Procurement Rules 2008.

32.2 No Tender security shall be returned to the Tenderers before contract signing, except to those who are found non-responsive.

32.3 Tender securities of the non-responsive Tenders shall be returned immediately after the Evaluation Report has been approved by the Purchaser.

32.4 Tender securities of the responsive Tenderers shall be returned only after the lowest evaluated responsive Tenderer has submitted the performance security and signed the contract , that being even before the expiration of the validity period specified in Clause 27.

32.5 Tender Securities of the Tenderers not consenting within the specified date in writing to the request made by the Purchaser under ITT Sub-Clause 28.1 in regard to extension of its Tender validity shall be discharged or returned forthwith.

33. Forfeiture of Tender Security

- 33.1 The Tender security pursuant to Rule 25 of the Public Procurement Rules, 2008 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 Clauses 27, and 28, pursuant to Rule 19 of the Public Procurement Rules 2008; or
 - (b) refuses to accept a Notification of Award as stated under ITT Sub-Clause 62.3, pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (c) fails to furnish performance security as stated under ITT Sub-Clause 63.2, pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (d) refuses to sign the Contract as stated under ITT Sub-Clause 67.2 pursuant to Rule 102 of the Public Procurement Rules 2008; or
 - (e) does not accept the correction of the Tender price following the correction of arithmetic errors as stated under ITT Clause 49, pursuant to Rule 98(11) of the Public Procurement Rules 2008

34. Format and Signing of Tender

- 34.1 The Tenderer shall prepare one (1) original of the documents comprising the Tender as described in ITT Clause 21 and clearly mark it "ORIGINAL". In addition, the Tenderer 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.
- 34.2 Alternatives, if permitted under ITT Clause 22, shall be clearly marked "Alternative".
- 34.3 The original and each copy of the Tender shall be typed or written in indelible ink and shall be signed by a person duly authorised to sign on behalf of the Tenderer. This authorisation shall consist of a written authorisation and shall be attached to the Tender Submission Letter (Form PG4-1).
- 34.4 The name and position held by each person signing the authorisation must be typed or printed below the signature.
- 34.5 All pages of the original and of each copy of the Tender, except for un-amended printed literature, shall be numbered sequentially and signed or initialled by the person signing the Tender.
- 34.6 Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialled by the person(s) signing the Tender.
- 34.7 Person(s) signing the Tender shall describe his or her name, address, position.

E. Tender Submission

- 35. Sealing, Marking and Submission of Tender**
- 35.1 The Tenderer shall enclose the original in one (1) envelope and all the copies of the Tender, including the alternative , if permitted under ITT Clause 22 in another envelope, duly marking the envelopes as “ORIGINAL” “ALTERNATIVE” (if permitted) and “COPY.” These sealed envelopes will then be enclosed and sealed in one (1) single outer envelope.
- 35.2 Tenders shall be properly marked by Tenderers in order not be confused with other types of correspondence which may also be hand-delivered or posted by mail or courier service. The inner and outer envelopes shall:
- (a) bear the name and address of the Tenderer ;
 - (b) be addressed to the Purchaser as stated under ITT Sub-Clause 36.1;
 - (c) bear the specific identification of this tendering process indicated in ITT Sub-Clause 1.2 and any additional identification marks as specified in the TDS; and
 - (d) bear a statement “DO NOT OPEN BEFORE...” the time and date for Tender opening, as stated under ITT Sub- Clause 42.2
- 35.3 The Tenderer is solely and entirely responsible for pre-disclosure of Tender information if the envelope(s) are not properly sealed and marked.
- 35.4 Tenders shall be delivered by hand or by mail, including courier services to location as designated in the ITT Sub-Clause 36.1.
- 35.5 Tenders shall be submitted on the basis of this Tender Document issued by the Purchaser.
- 35.6 The Purchaser will, on request, provide the Tenderer with a receipt showing the date and time when it’s Tender was received.
- 35.7 When so specified in the TDS, tenderers shall have the option of submitting their tenders electronically.
- 35.8 Tenderers submitting tenders electronically shall follow the electronic tender submission procedures specified in the TDS.
- 36. Deadline for Submission of tenders**
- 36.1 Tenders shall be delivered to the Purchaser at the address specified in the TDS and no later than the date and time specified in the TDS.
- 36.2 The Purchaser may, at its discretion on justifiably acceptable grounds duly recorded, extend the deadline for submission of Tender as stated under ITT Sub Clause 36.1, in which case all rights and obligations of the Purchaser and Tenderers previously subject to the deadline will thereafter be subject to the new deadline as extended.
- 37. Late tender**
- 37.1 Any Tender received by the Purchaser after the deadline for submission of Tenders as stated under ITT Sub-Clause 36.1, shall be declared LATE, rejected, returned unopened to the Tenderer.
- 38. Modification,**
- 38.1 A Tenderer may modify, substitute or withdraw its Tender after it has

**Substitution or
Withdrawal of
Tenders**

been submitted by sending a written notice duly signed by the authorised signatory properly sealed, and shall include a copy of the authorisation (the power of attorney), confirmed by an affidavit duly authenticated as stated under ITT Clause 34.3, provided that such written notice including the affidavit is received by the Purchaser prior to the deadline for submission of Tenders as stated under ITT Sub-Clause 36.1.

**39. Tender
Modification**

39.1 The Tenderer shall not be allowed to retrieve its original Tender, but shall be allowed to submit corresponding modification to its original Tender marked as "MODIFICATION".

**40. Tender
Substitution**

40.1 The Tenderer shall not be allowed to retrieve its original Tender, but shall be allowed to submit another Tender marked as "SUBSTITUTION".

**41. Withdrawal of
Tender**

41.1 The Tenderer shall be allowed to withdraw its Tender by a Letter of Withdrawal marked as "WITHDRAWAL".

F. Tender Opening and Evaluation

42. Tender Opening

42.1 Tenders shall be opened pursuant to Rule 97 following steps in Part D of Schedule IV of The Public Procurement Rule, 2008.

42.2 Tenders shall be opened in public immediately after the deadline for submission of Tenders at the place, date and time as specified in the TDS but no later than **ONE HOUR** after expiry of the submission deadline. Tender opening shall not be delayed on the plea of absence of Tenderers or his or her representatives.

42.3 Any specific electronic Tender opening procedures required if electronic tendering is permitted under ITT Sub-Clause 35.7, shall be as specified in the TDS.

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

42.5 The 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.

42.6 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 based on documents submitted under ITT Sub Clause 38.1.

42.7 Tenders will be opened in the following manner:

- (a) firstly, envelopes marked "Withdrawal" shall be opened and "Withdrawal" notices read aloud and recorded, and the envelope with the corresponding Tender shall not be opened, but returned unopened to the Tenderer by the Purchaser at a later time immediately after preliminary examination by the Tender Evaluation Committee (TEC) as stated under ITT Sub-Clause 45.1. No Tender withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal and in such case the Tender shall be read aloud at the Tender opening ;

- (b) secondly, the remaining Tenders will be sorted out and those marked “substitutes” or “modified” will be linked with their corresponding “original”(O) Tender;
- (c) Next, envelopes marked “Substitution”(S) shall be opened and read aloud and recorded, and exchanged with the corresponding Tender being substituted, and the substituted Tender shall not be opened, but returned unopened to the Tenderer by the Purchaser at a later time immediately after preliminary examination by the Tender Evaluation Committee (TEC) as stated under ITT Sub-Clause 45.1 . No Tender substitution shall be permitted unless the corresponding substitution notice contains a valid authorization to request the substitution and in such case the Tender shall be read aloud at the Tender opening.
- (d) Next envelopes marked “Modification” (M) shall be opened and read aloud with the corresponding Tender and recorded. No Tender modification shall be permitted unless the corresponding modification notice contains a valid authorization to request the modification and in such case the Tender shall be read aloud at the Tender opening.
- (e) thirdly, if so specified in this Tender Document, the envelopes marked “ Alternative ”(A) shall be opened and read aloud with the corresponding Tender and recorded.

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

- (a) the Chairperson of the Tender Opening Committee 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 number of initialled corrections;
 - (v) any discounts;
 - (vi) any alternatives;
 - (vii) the presence or absence of any requisite Tender Security; and
 - (viii) such other details as the Purchaser, at its discretion, may consider appropriate.
- (b) only discounts and alternative read aloud at the Tender opening will be considered in evaluation;
- (c) all pages of the original version of the Tender, except for un-amended printed literature, will be initialled by members of the Tender Opening Committee.

42.9 Upon completion of Tender opening, all members of the Tender Opening Committee and the Tenderers or Tenderer’s duly authorised representatives attending the Tender opening shall sign by name, address, designation and their national Identification Numbers the Tender Opening Sheet, copies of which shall be issued to the Head of the Purchaser or an officer authorised by him or her and also to the members of the Tender

Opening Committee and any authorised Consultants and, to the Tenderers immediately.

42.10 The omission of a Tenderer's signature on the record shall not invalidate the contents and effect of the record under ITT Sub-Clause 42.8.

42.11 No Tender will be rejected at the Tender opening stage except the LATE Tenders. .

42.12 A copy of the record shall be distributed to all Tenderers who submitted tenders in time, and posted online when electronic tendering is permitted.

43. Evaluation of Tenders

43.1 Purchaser's Tender Evaluation Committee (TEC) shall examine, evaluate and compare Tenders that are responsive to the mandatory requirements of Tender Documents in order to identify the successful Tenderer.

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

44. Evaluation process

44.1 The 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 Examinations and Responsiveness;
- (c) Financial evaluation and price comparison;
- (d) Post-qualification of the lowest evaluated responsive Tenders.

45. Preliminary Examination

45.1 Compliance, adequacy and authenticity of the documentary evidences for meeting the qualification criterion specified in the corresponding section of the Tender document shall have to be preliminarily examined and verified.

45.2 The TEC shall firstly examine the Tenders to confirm that all documentation requested in ITT Clause 21 has been provided. Examination of the compliance, adequacy and authenticity of the documentary evidence may follow the order below:

- (a) verification of the completeness of the eligibility declaration in the Tender Submission Letter (Form PG4-1), to determine the eligibility of the tenderer as stated under ITT Sub-Clause 21(h). Any alterations to its format, filling in all blank spaces with the information requested, failing which the tender may lead to rejection of the Tender;
- (b) verification of that the Tenderer is enrolled in the relevant professional or trade organisations as stated under ITT Clause 21(l);
- (c) verification of the eligibility in terms of legal capacity and fulfilment of taxation obligation by the tenderer in accordance as stated under ITT Sub-Clause 21(i) and 21(k);
- (d) verification of eligibility that the tenderer is not insolvent, in receivership, bankrupt, not in the process of bankruptcy, not

temporarily barred as stated under ITT Sub-Clause 21(j);

- (e) verification of eligibility of Tenderer's country of origin as stated under ITT Sub-Clause 21(b);
- (f) verification of the written authorization confirming the signatory of the Tenderer to commit the Tender has been attached with Tender Submission Letter (Form PG4-1) as stated under ITT Sub-Clause 21(g); in order to check the authenticity of Tender and Tenderer itself;
- (g) verification of the Tender Security as stated under ITT Sub-Clause 21(d); and
- (h) Verification of that the written notice for 'WITHDRAWAL' and 'SUBSTITUTION of' or MODIFICATION to, the corresponding Tender is proper and authentic, if the tender is "WITHDRAWN", "SUBSTITUTION" or "MODIFICATION", as stated under ITT Sub-Clause 38.1

45.3 The TEC shall confirm that the above documents and information have been provided in the Tender and the completeness of the documents and compliance of instructions given in corresponding ITT Clauses shall be verified, failing which the tender shall be considered as non-responsive.

46. Technical Examinations & Responsiveness

46.1 Only those Tenders surviving preliminary examination need to be examined in this phase.

46.2 Secondly, the TEC will examine the adequacy and authenticity of the documentary evidence which may follow the order below:

- (a) verification of the completeness of the country of origin declaration in the Price Schedule for Goods and Related Services (Form PG4-3B, 3C and PG4-3D) as furnished in Section 5: Tender and Contract Forms to determine the eligibility of the Goods and Related Services as stated under ITT Sub Clause 21(m).
- (b) verification and examination of the documentary evidence and completed Specification Submission Sheet (Form PG4-4) as furnished in Section 5: Tender and Contract Forms to establish the conformity of the Goods and Related Services to the Tender Documents as stated under ITT Sub Clause 21(e) and 21(n).
- (c) verification and examination of the documentary evidence that the Tenderer's qualifications conform to the Tender Documents and the Tenderer meets each of the qualification criterion specified in Sub-Section C, Qualification Criteria as stated under ITT Sub Clause 21(o).
- (d) verification and examination of the documentary evidence that Tenderer has met all the requirements in regards to scope of Supply as stated under Section 6, Schedule of Requirements, without any material deviation or reservation.

46.3 TEC may consider a Tender as responsive in the evaluation, only if comply with the mandatory requirements as stated under Clause 46.2.

46.4 The TEC's determination of a Tender's responsiveness is to be based on the documentary evidence as requested in Clause 46.2 without recourse to extrinsic evidence.

- 46.5 Information contained in a Tender, that was not requested in the Tender Document shall not be considered in evaluation of the Tender.
- 46.6 If a Tender is not responsive to the mandatory requirements set out in the Tender Document it shall be rejected by the TEC and shall not subsequently be made responsive by the Tenderer by correction of the material deviation, reservation.
- 46.7 A material deviation or reservation is one-
- (a) which affects in any substantial way the scope, quality, or performance of the Goods and Related Services and Tenderer's qualifications mentioned in the Tender Document.
 - (b) which limits in any substantial way, inconsistent with the Tender Documents, the Purchaser's rights or the Tenderer's obligations under the Contract; or
 - (c) whose rectification would anyway affect unfairly the competitive position of other Tenderers presenting responsive Tenders.
- 46.8 During the evaluation of Tender, the following definitions apply:
- (a) "Deviation" is a departure from the requirements specified in the Tender Document;
 - (b) "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Tender Document;
- 46.9 A 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 requirements set out in the Tender Document;
 - (b) errors or oversights, which if corrected, would not alter the key aspects of the Tender.

47. Clarification on Tender

- 47.1 The TEC may ask Tenderers for clarifications of their Tenders, including breakdowns of unit rates, in order to assist the examination and evaluation of the Tenders, provided that, 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 46.7, shall neither be sought nor permitted by the TEC.
- 47.2 Change in the tender price shall not be sought or permitted, except to confirm correction of arithmetical errors discovered by the Purchaser in the evaluation of the Tender, as sated under ITT Clause 49.
- 47.3 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.
- 47.4 If a Tenderer does not provide clarifications of its Tender by the date and time set in the TEC's written request for clarification, its Tender shall not be considered in the evaluation.

- 47.5 Requests for clarification shall be in writing and shall be signed only by the Chairperson of the TEC.
- 48. Restrictions on the Disclosure of Information Relating to the Procurement Process**
- 48.1 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 Purchaser pursuant to Rule 31 of the Public Procurement Rule,2008.
- 48.2 Tenderers shall not seek to influence in anyway, the examination and evaluation of the Tenders.
- 48.3 Any effort by a Tenderer to influence a Purchaser in its decision concerning the evaluation of Tenders, Contract awards may result in the rejection of its Tender as well as further action in accordance with Section 64 (5) of the Public Procurement Act 2006.
- 48.4 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 disqualified.
- 48.5 Information relating to the examination, evaluation, comparison, and post qualification of the tender or contract award, shall not be disclosed to tenderers or any other persons not officially concerned with such process.
- 49. Correction of Arithmetical Errors**
- 49.1 The TEC shall correct any arithmetic errors that are discovered during the examination of Tenders, and shall promptly notify the concerned Tenderer(s) of any such correction(s) pursuant to Rule 98(11) of the Public Procurement Rule, 2008.
- 49.2 Provided that the Tender is responsive, TEC shall correct arithmetical errors on the following basis:
- (a) If there is a discrepancy between the unit price and the line item total that is obtained by multiplying the unit price by the quantity, the unit price shall prevail and the line item total 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;
- (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.
- 49.3 Any Tenderer that does not accept the correction of the Tender amount following correction of arithmetic errors as determined by the application of ITT Sub-Clause 49.2 shall be considered as non-responsive.
- 50. Conversion to Single Currency**
- 50.1 For evaluation and comparison purpose, TEC shall convert all Tender prices expressed in the amounts in various currencies into an amount in Bangladeshi Taka currency, using the **selling exchange rates** established by the Bangladesh Bank, on the date of **Tender opening**.
- 51. Domestic Preference**
- 51.1 **Domestic preference** shall be a factor in tender evaluation, unless otherwise specified in the **TDS**

51.2 If **domestic preference shall be a tender-evaluation factor**, the Purchaser will grant a margin of fifteen percent (15%) domestic preference to Goods manufactured in Bangladesh during the evaluation of its Tender while comparing the same with those of other Tenderers under the classification set out in ITT Sub-Clause 51.3. The evaluation will be carried out in accordance with the provisions set out in ITT Clause 54.

51.3 Tenders will be classified in one of two groups, as follows:

- (a) **Group A:** Tender offering goods manufactured in Bangladesh, for which:
 - (i) labour, raw materials, and components from within the Bangladesh account for more than thirty (30) percent of the EXW price; and
 - (ii) the production facility in which they will be manufactured or assembled has been engaged in manufacturing or assembling such goods at least since the date of tender submission.
- (b) **Group B:** Tenders offering Goods manufactured outside Bangladesh that have been already imported or that will be imported.

51.4 To facilitate this classification by the Tenderer, the Tenderer shall complete whichever Form of the Price Schedule furnished in the Tender Document is appropriate.

51.5 Completion of an inappropriate Form of the Price Schedule by the Tenderer shall not result in rejection of its tender, but merely in the Purchaser's reclassification of the tenderer into its appropriate tender group.

52. Financial Evaluation

52.1 Thirdly the TEC, pursuant to Rule 98 of the Public Procurement Rules, 2008 shall evaluate each Tender that has been determined, up to this stage of the evaluation, to be responsive to the mandatory requirements in the Tender Document.

52.2 To evaluate a Tender in this stage , the Purchaser shall consider the following:

- (a) Verification and examination of the Price Schedule for Goods and Related Services (Form PG4-3A, 3B, 3C and PG4-3D) as furnished by the Tenderer and checking the compliance with the instructions provided under ITT Clause 23;
- (b) Evaluation will be done for Items or lot by lot as stated under ITT Clause 23 and the Total Tender Price as quoted in accordance with Clause 23 ;
- (c) Adjustment for correction of arithmetical errors as stated under ITT Sub-Clause 49.2;
- (d) Adjustment for price modification offered as stated under ITT Clause 38;
- (e) Adjustment due to discount as stated under ITT Sub-Clauses 23.8 , 23.9 and 52.3;

- (f) Adjustment due to the application of economic factors of evaluation as stated under ITT Sub-Clause 52.5 if any;
- (g) Adjustment due to the assessment of the price of unpriced items as stated under ITT Clause 53 if any;
- (h) Adjustment due to the application of a margin of preference (domestic preference), in accordance with ITT Clause 54 if applicable

52.3 If Tenders are invited for a single lot or for a number of lots as stated under ITT Sub-clauses 23.3, TEC shall evaluate only lots that that have included at least the percentage of items per lot as stated under ITT Sub-Clause 23.5 and 23.6. The TEC shall evaluate and compare the Tenders taking into account:

- (a) Lowest evaluated tender for each lot ;
- (b) The price discount/reduction per lot;
- (c) Least cost combination for the Purchaser, considering discounts and the methodology for its application as stated under ITT Sub-clauses 23.8 and 23.9 offered by the Tenderer in its Tender.

52.4 Only those spare parts and tools which are specified as a item in the List of Goods and Related Services in Section 6, Schedule of Requirement or adjustment as stated under ITT Sub-clause 52.5, shall be taken into account in the Tender evaluation. Supplier-recommended spare parts for a specified operating requirement as stated under ITT Sub-clause 25.2(b) shall not be considered in Tender evaluation.

52.5 The Purchaser's evaluation of a tender may require the consideration of other factors, in addition to the Tender Price quoted as stated under ITT Clause 23. The effect of the factors selected, if any, shall be expressed in monetary terms to facilitate comparison of tenders. The factors, methodologies and criteria to be used shall be as specified in TDS. The applicable economic factors, for the purposes of evaluation of Tenders shall be:

- (a) Adjustment for Deviations in the Delivery and Completion Schedule
- (b) Cost of major replacement components, mandatory spare parts, and service

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

53. Assessing the Price of Unpriced Items

53.1 If it is so permitted under ITT Clause 23 , any Tenderer offered only eighty percent (80%) or minimum percent of the items of a lot as stated under ITT Sub-Clause 23.5, the TEC shall calculate the total lot value by adding up the average prices offered by other responsive Tenderers for the missing items to the lot value to establish the winning lot Tender. If the Tenderer offered less than the specified, the Tender shall be evaluated as sated under ITT Clause 23.

53.2 If the winning lot is missing some items as stated under ITT Sub Clause 53.1, comprising less than twenty percent (20%), the Purchaser may

procure the missing items from the Tenderer offering the least cost for those remaining items.

54. Evaluation of Domestic Preference

- 54.1 If the Tender document so specifies, the Tenderer will grant a margin preference to goods manufactured in Bangladesh as stated in ITT Clause 51 for the purpose of Tender comparison, in accordance with the procedure outlined below:
- 54.2 The Purchaser will first review the tenders to confirm the appropriateness of, and to modify as necessary, the tenderer group classification to which Tenderers assigned their tenders in preparing their Tender Forms and Price Schedules.
- 54.3 All evaluated tenders in each group will then be compared to determine the lowest evaluated tender of each group. Such lowest evaluated tenders shall be compared with each other and if as a result of this comparison a tenderer from Group A and the Tenders offering Goods manufactured in Bangladesh is the lowest, it shall be selected for the award.
- 54.4 If, as a result of the preceding comparison, the lowest evaluated tender is from Group B,
- (a) all Group B tenders will then be further compared with the lowest evaluated tender from Group A, after adding to the evaluated tender price of goods offered in the tender for Group B, for the purpose of further comparison only an amount equal to fifteen (15) percent of the CIF/CIP (named place of destination or named port of destination) tender price.
 - (b) The lowest-evaluated tender determined from this last comparison shall be selected for the award.

55. Price Comparison

- 55.1 The TEC shall compare all responsive Tenders to determine the lowest-evaluated Tender, as stated under ITT Clause 54.
- 55.2 In the extremely unlikely event that there is a tie for the lowest evaluated price, the Tenderer with the superior past performance with the Purchaser shall be selected, whereby factors such as delivery period, quality of Goods delivered, complaints history and performance indicators could be taken into consideration.
- 55.3 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 Purchaser, then the the Tenderer shall be selected, subject to firm confirmation through the Post-qualification process described in ITT Clause 57, after consideration as to whether the quality of Goods that is considered more advantageous by the end-users.
- 55.4 The successful Tenderer as stated under ITT Sub Clauses 55.1, 55.2 and 55.3 shall not be selected through lottery under any circumstances.

56. Negotiation

- 56.1 No negotiations shall be held during the Tender evaluation or award with the lowest or any other Tenderer pursuant to Rule 99 of the Public Procurement Rules, 2008.

57. Post-qualification

- 57.1 After determining the lowest-evaluated responsive tender as stated under ITT Sub-Clause 55.1, the Purchaser's TEC pursuant to Rule 100 of the Public Procurement Rules, 2008, shall carry out the Post-Qualification of

the Tenderer, using only the requirements specified in Sub-Section C, Qualification Criteria.

- 57.2 The TEC shall contact the references given by Tenderers about their previous Supply experiences to verify, if necessary, statements made by them in their Tender and to obtain the most up-to-date information concerning the Tenderers.
- 57.3 The TEC may visit the premises of the Tenderer as a part of the post-qualification process, if practical and appropriate, to verify information contained in its Tender.
- 57.4 The TEC shall determine to its satisfaction whether the Tenderer that is selected as having submitted the lowest evaluated responsive Tender is qualified to perform the Contract satisfactorily.
- 57.5 The objective of any visit under ITT Sub-Clause 57.3 shall be limited to a general and visual inspection of the Tenderer's facilities and its plant and equipment, and there shall be no discussion concerning the Tender or its evaluation with the Tenderer during such visit(s).
- 57.6 In the event that the Tenderer with lowest evaluated cost fails the post-qualification, the TEC shall make a similar determination for the Tenderer offering the next lowest evaluated cost and so on from the remaining responsive Tenders, provided that,
- (a) such action shall only be taken if the evaluated costs of the Tenders under consideration are acceptable to the Purchaser;
 - (b) when the point is reached whereby the evaluated costs of the remaining responsive Tenders are significantly higher than that of the official estimate, or the market price, the Purchaser may take action pursuant to Rule 33 and may proceed for re-Tendering, using a revised Tender Document designed to achieve a more successful result.

58. Rejection of All Tenders

- 58.1 The Purchaser may, in the circumstances as stated under ITT Sub-Clause 58.2 and pursuant to Rule 33 of the Public Procurement Rules 2008, reject all Tenders following recommendations from the Evaluation Committee only after the approval of such recommendations by the Head of the Purchaser.
- 58.2 All Tenders can be rejected, if -
- (a) the price of the lowest evaluated Tender exceeds the official estimate, provided the estimate is realistic; 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 delivery within the stipulated time in its offer, 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.

58.3 Notwithstanding anything contained in ITT Sub-Clause 58.2 Tenders may not be rejected if the lowest evaluated price is in conformity with the market price.

58.4 A Purchaser may pursuant to Rule 35 of the Public Procurement Rules, 2008, on justifiable grounds, annul the Procurement proceedings prior to the deadline for the submission of Tenders.

58.5 All Tenders received by the Purchaser shall be returned unopened to the Tenderers in the event Procurement proceedings are annulled under ITT Sub-Clause 58.4.

**59. Informing
Reasons for
Rejection**

59.1 Notice of the rejection, pursuant to Rule 35 of the Public Procurement Rules, 2008, will be given promptly within seven (7) days of decision taken by the Purchaser to all Tenderers and, the Purchaser 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

60. Award Criteria

60.1 The Purchaser shall award the Contract to the Tenderer whose offer is responsive to 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 as stated under ITT Clause 57.

60.2 A Tenderer shall not be required, as a condition for award of contract, to undertake obligations not stipulated in the Tender Document, to change its price, or otherwise to modify its Tender.

**61. Purchaser's
Right to Vary
Quantities**

61.1 The Purchaser reserves the right at the time of Contract Award to increase or decrease the quantity, per item, of Goods and Related Services originally specified in Section 6: Schedule of Requirements, provided this does not exceed the percentages indicated in the TDS, and without any change in the unit prices or other terms and conditions of the Tender and the Tender Document.

**62. Notification of
Award**

62.1 Prior to the expiry of the Tender validity period and within seven (7) working days of receipt of the approval of the award by the Approving Authority, the Purchaser pursuant to Rule 102 of the Public Procurement Rules, 2008, shall issue the Notification of Award (NOA) to the successful Tenderer

62.2 The Notification of Award, attaching the contract as per the sample (Form PG4-7) to be signed, shall state:

- (a) the acceptance of the Tender by the Purchaser;
- (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 submitted; and
- (e) the date and time within which the contract shall be signed.

62.3 The Notification of Award shall be accepted in writing by the successful Tenderer within seven (7) working days from the date of issuance of NOA.

- 62.4 Until a formal contract is signed, the Notification of Award shall constitute a Contract, which shall become binding upon the furnishing of a Performance Security and the signing of the Contract by both parties.
- 62.5 The Notification of Award establishes a Contract between the Purchaser and the successful Tenderer and the existence of a Contract is confirmed through the signature of the Contract Document that includes all agreements between the Purchaser and the successful Tenderer.
- 63. Performance Security**
- 63.1 The Performance Security shall be determined sufficient to protect the performance of the Contract pursuant to Rule 27 of the Public Procurement Rules, 2008.
- 63.2 Performance Security shall be furnished by the successful Tenderer in the amount specified in the TDS and **denominated in the currencies** in which the Contract Price is payable pursuant to Rule 102 (8) of the Public Procurement Rules, 2008.
- 63.3 The proceeds of the Performance Security shall be payable to the Purchaser unconditionally upon first written demand as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 64. Form and Time Limit for furnishing of Performance security**
- 64.1 The Performance Security shall be in the form of irrevocable Bank Guarantee in the format (Form PG4-9) as stated under ITT Clause 63, **shall be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable** pursuant to Rule 27(4) of the Public Procurement Rules, 2008..
- 64.2 Within twenty-eight (28) days from issue of the Notification of Award, the successful Tenderer shall furnish the Performance Security for the due performance of the Contract in the amount specified under ITT Sub Clause 63.2.
- 65. Validity of Performance Security**
- 65.1 The Performance Security shall be required to be valid until a date twenty-eight (28) days beyond the date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations.
- 65.2 If under any circumstances date of completion of the Supplier's performance obligations under the Contract, including any warranty obligations is to be extended, the Performance Security shall correspondingly be extended for the extended period.
- 66. Authenticity of performance Security**
- 66.1 The Purchaser 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 irrevocable Bank Guarantee in specified format.
- 66.2 If the Performance Security submitted under ITT Sub Clause 63.2 is not found to be authentic, the Purchaser shall proceed to take measures against the Tenderer in accordance with Section 64 of the Act and

pursuant to Rule 127 of the Public Procurement Rules, 2008.

- 67. Contract Signing**
- 67.1 At the same time as the Purchaser issues the Notification of Award, the Purchaser shall send the draft Contract Agreement and all documents forming the Contract pursuant to Rule 102 of the Public Procurement Rule, 2008, to the successful Tenderer.
- 67.2 Within twenty-eight (28) days of the issuance of Notification of Award, the successful Tenderer and the Purchaser shall sign the contract provided that the Performance Security submitted by the Tenderer is found to be genuine.
- 67.3 If the successful Tenderer fails to provide the required Performance Security, as stated under ITT Clause 63 or to sign the Contract, as stated under ITT Sub-Clause 67.2, Purchaser shall proceed to award the Contract to the next lowest evaluated Tenderer, and so on, by order of ranking pursuant to Rule 102 of the Public Procurement Rules, 2008.
- 68. Publication of Notification of Award of Contract**
- 68.1 Notification of Awards for Contracts of Taka 10(ten) million and above shall be notified by the Purchaser to the Central Procurement Technical Unit within 7(seven) days of issuance of the NOA for publication in their website, and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008.
- 68.2 Notification of Award for Contracts below Taka 10(ten) million, shall be published by the Purchaser on its Notice Board and where applicable on the website of the Purchaser and that notice shall be kept posted for not less than a month pursuant to Rule 37 of the Public Procurement Rules, 2008.
- 69. Debriefing of Tenderers**
- 69.1 Debriefing of Tenderers by Purchaser shall outline the relative status and weakness only of his or her Tender requesting to be informed of the grounds for not accepting the Tender submitted by him or her pursuant to Rule 37 of the Public Procurement Rule, 2008, without disclosing information about any other Tenderer.
- 69.2 In the case of debriefing confidentiality of the evaluation process shall be maintained.
- 70. Right to Complain**
- 70.1 Any Tenderer has the right to complain if it has suffered or likely to suffer loss or damage due to a failure of a duty imposed on the Purchaser to fulfil its obligations in accordance with Section 29 of the Public Procurement Act 2006 and pursuant to Part 12 of Chapter Three of the Public Procurement Rules, 2008.
- 70.2 Circumstances in which a formal complaint may be lodged in sequence by a potential Tenderer against a Purchaser pursuant to Rule 56 of the Public Procurement Rules, 2008, and the complaints, if any, be also processed pursuant to Rule 57 of the Public Procurement Rules 2008.
- 70.3 The potential Tenderer shall submit his or her complaint in writing within seven (7) calendar days of becoming aware of the circumstances giving rise to the complaint.

- 70.4 In the first instance, the potential Tenderer shall submit his or her complaint to the Purchaser who issued the Tender Document.
- 70.5 The place and address for the first stage in the submission of complaints to the Administrative Authority is provided in the TDS.
- 70.6 The Tenderer may appeal to a Review Panel only if the Tenderer has exhausted all his or her options of complaints to the administrative authority as stated under ITT Sub-Clause 70.2.

Section 2. Tender Data Sheet

Instructions for completing the Tender Data Sheet are provided, as needed, in the notes in italics and under lined mentioned for the relevant ITT clauses.

| ITT Clause | Amendments of, and Supplements to, Clauses in the Instruction to Tenderers |
|---------------------------|---|
| A. General | |
| ITT 1.1 | <p>The Purchaser is: Bangladesh Power Development Board (BPDB)</p> <p style="text-align: center;">Representative</p> <p>Director, Directorate of Purchase, BPDB, WAPDA Building (9th floor), Motijheel C/A, Dhaka-1000. Phone: +88 02 223383081.</p> <p style="text-align: center;">Consignee</p> <p>Director, Directorate of Electrical Equipment, BPDB, Bidhut Bhaban (4th Floor), 1 Abdul Gani Road, Dhaka-1000. Phone: +88 02 223380509</p> <p style="text-align: center;">Engineer</p> <p>Director, Directorate of Design & Inspection-II, 9/B, Motijheel C/A, Dhaka-1000. Phone: +88 02 223383613.</p> <p>The Name and Identification number of the tender are:</p> <p style="text-align: center;">Procurement of Supply of 11kV Incoming Switchgear Panel (Tongi Store)</p> |
| ITT 1.2 | <p>The number, identification and name of lots comprising the Tender are: Supply of 11kV Incoming Switchgear Panel (Tongi Store)</p> |
| ITT 3.1 | <p>The source of public fund is Cash Foreign Exchange under Revenue Budget of BPDB.</p> |
| ITT 3.3 | <p>The name of the Development Partner is: Not Applicable</p> |
| ITT 5.1 | <p>Tenderers from the following countries are not eligible: Israel and countries having no diplomatic relation with the Government of Bangladesh</p> |
| ITT 6.1 | <p>Goods and Related Services from the following countries are not eligible: Israel and countries having no diplomatic relation with the Government of Bangladesh</p> |
| B. Tender Document | |
| ITT 8.2 | <p>The following are the offices of the Purchaser for the purpose of providing the Tender Document:</p> <p>Director Directorate of Purchase, BPDB WAPDA Building (9th floor), Motijheel C/A Dhaka-1000 Tel No: +88 02 223383081.</p> |
| ITT 9.1 | <p>For clarification of Tender purposes only, the Purchaser's address is: Attention: Director. Address: Directorate of Purchase, BPDB WAPDA Building (9th floor), Motijheel C/A Dhaka-1000, Bangladesh Tel No: +88 02 223383081.</p> |

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| ITT 10.1 | A Pre- Tender meeting shall not be held. |
| C. Qualification Criteria | |
| ITT 13.1 | The maximum Three (3) number of arbitration against the Tenderer over a period of last five (5) years. |
| ITT 14.1(a) | The Tenderer shall have a minimum of 03(three) years of overall experience in the supply of goods and related services. |
| ITT 14.1(b) | The minimum specific experience as Supplier in supply of similar Goods of at least 02 (two) contracts successfully completed within the last 05 (five) years, i.e. years counting backward from the date of publication of IFT in the newspaper, each with a value of at least BDT 3.5 (Three point Five) crore or Equivalent. In addition, performance of the completed contracts as mentioned in Annexure: 4-1 shall be taken into consideration during evaluation. Similar Goods means : Electrical Equipment/Materials |
| ITT 14.1(c) | The minimum production capacity of similar type Goods must satisfy the assessment of Production Capacity as mentioned in Table- 3B of Annexure: 4-3. |
| ITT 15.1(a) | The minimum amount of liquid asset or working capital or credit facility must satisfy the assessment of Financial Resources Availability as mentioned in Table- 4B of Annexure: 4-4. |
| ITT 16.2 | The maximum of percentage of Goods allowed to be subcontracted: Not Allowed. |
| D. Preparation of Tender | |
| ITT 21.1(q) | The Tenderer shall submit with its Tender the following additional documents: <ol style="list-style-type: none"> 1. Sealed & signed original Tender Document (which was issued by BPDB) by a person duly authorized to sign on behalf of the tender. Copy of issued tender document will not be acceptable. 2. Registration /Certificate of Incorporation /Trade licence in its country of origin / relevant documents as documentary evidence to satisfy experience criteria as stated in ITT 14.1(a). 3. End User certificate (s) as documentary evidence to satisfy experience criteria as stated in ITT 14.1(b). 4. Updated brochures of the supplier and/or manufacturer as documentary evidence to satisfy experience criteria as stated in ITT 14.1(c) 5. Audited Financial reports or bank statement or credit line(s) substantiated by any schedule Bank as documentary evidence to satisfy financial criteria as stated in ITT 15. |

6. Compliance certificate confirming to the terms and condition of the tender document.
7. Name of the Manufacturer, Certificate of the country of Origin and port of shipment (where applicable) of the offered equipment / items.
8. Warranty Certificate (Form PG4-12) from Tenderer as per GCC 33
9. List of Goods and Delivery schedule as stated in Schedule of Requirements, Section : 6.
10. Manufacturer's Printed Catalogue describing specification and technical data of offered type equipment.
11. Outline and General Arrangement drawings of the offered type equipment.
12. Detail description of testing facilities at manufacturer's plant including calibration certificates of testing equipment.
13. Manufacturer's valid ISO 9001 Certificate.
14. Certification from the manufacturer confirming that his offered item is unused, new and in good condition and confirmed all features & accessories stated in Section 7: Technical Specification.
15. If Tenderer has any reservation, Tenderer has to mention it in Deviation list (Form PG4-11).
16. Guaranteed Technical Particulars (GTP) in Section 8 shall be properly filled up in manufacturer's official pad with submission of related supporting documents & signed by the Manufacturer & Tenderer.
17. At least 02 (two) nos. of Manufacturer's Supply Experience (supported by Copy of NOA/ Contract Agreement/Certificate from Purchaser) for offered type similar or higher capacity rating **11kV AIS Panel** of same voltage class within the last 05 (five) years i.e. years counting backward from the date of publication of IFT in the news paper. Manufacturer's Supply Experience shall be furnished in the following supply record format. (The Supply Experience covering at least 25% of the tendered quantity in a single contract will be considered only):

| Sl. No. | Name, Address, Phone & Fax No. of the Purchaser | Contract No. & Date/NOA | Contract Value | Description of materials with Quantity | Date of Completion of Supply |
|---------|---|-------------------------|----------------|--|------------------------------|
| | | | | | |
| | | | | | |

18. At least 02 (two) nos. Manufacturer's Satisfactory Performance Certificates (supported by the Supply Record) from Electricity Utility as End User depicting that the offered type similar or higher capacity rating **11kV AIS Panel** of same voltage class has been supplied within last 10(ten) years i.e. years counting backward from the date of publication of IFT in the news paper and has been in satisfactorily service for at least 02(two) years. The Satisfactory Performance Certificate (SPC) shall be in End User's official pad and shall contain **End User's full mailing address, fax/telephone number, website address, domain e-mail address for the convenience of authentication.**

Note: Electricity Utility means an organization/company that engages in electricity generation/ transmission / distribution of electricity for sale in a regulated market.

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| | <p>19. Manufacturer's authorization in prescribed Form (PG4-5) for</p> <ul style="list-style-type: none"> a) Protective Relays from ABB (Switzerland/Sweden/Finland) or Siemens (Germany) or Schneider Electric (UK/France) or ALSTOM (UK/France) or NR (China), SEL, USA. b) Energy Meters from European Country/ North American Country/Japan/Australia. c) CT & PT from Reputed Manufacturer. <p>20. Type Test Certificates & Reports for offered type similar or higher Ampere rating Switchgear for same voltage class from any Short-Circuit Testing Liaison (STL) Member [http://www.stl-liaison.org/web/03_Members.php] Testing Organization or Laboratory as per relevant IEC standard. The type test report along with results shall include at least the following tests :</p> <ul style="list-style-type: none"> a) Lightning Impulse Voltage Withstand tests. b) Power frequency withstands tests. c) Temperature Rise Tests. d) Measurement of resistance of the main circuit. e) Short-circuit performance tests (including short-time and peak withstand current tests, verification of making & breaking capacities tests). f) Mechanical operation tests. <p><i>Note: If required, Purchaser will authenticate Type Test Certificates & Reports from the Certificates & Reports Issuing laboratory and if any applicable charge /cost impose by issuing laboratory for said authentication shall be borne by Tenderer. The certificates and Reports shall contain laboratory's full mailing address, e-mail address, website address and fax/telephone number for the convenience of authentication. If these information are not mentioned in the Certificates & Reports, all these information should be mentioned in the Letterhead pad of the manufacturer duly seal & signed by the manufacturer representative.</i></p> <p>21. Each Tenderer before submitting his Tender will visit the BPDB Store at Tongi, Gazipur to carefully examine the existing Outgoing Switchgear/Bus Coupler panels so that the Incoming Switchgears to be supplied under this Tender are compatible with existing Outgoing Switchgear Panel/Bus Coupler Panels. (For Reference an Indicative Drawing is attached in Section-9)</p> <p>22. Tenderer shall have to submit the information of all completed similar contracts in govt. entities under power sector of Bangladesh within last 5 (five) years, i.e. years counting backward from the date of publication of IFT in the newspaper, with supporting document (end user's satisfactory performance certificate/ Acceptance Certificate) in the format attached as Annexure: 4-1.</p> <p>23. Tenderer shall have to submit the information of all ongoing similar contract(s) in govt. entities under power sector of Bangladesh in the format attached as Annexure: 4-2 with supporting document (Acceptance of NOA/Contact agreement) along with the upto date Acceptance certificate / R&I certificate from end user.</p> |
| ITT 22.1 | Alternative Tenders will not be permitted. |
| ITT 23.3 | Tender is invited for Supply of 11kV Incoming Switchgear Panel (Tongi Store) |
| ITT 23.5 | Price quoted for each lot shall correspond at least to 100 % of the items specified for each lot and correspond at least to 100% of the total lot value. |

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| ITT 23.7 | Not Applicable |
| ITT 23.11(c) ITT 23.12 (c) ITT 23.13 (e) | Insurance will be paid by Bangladesh Power Development Board Final destination is [Central Store, BPDB, at Tongi, Gazipur.] |
| ITT 23.12 (a) | Price of the Goods shall be quoted on CFR Port of Destination : Chittagong/ Dhaka/ Khulna (Mongla)/ Benapole. |
| ITT 23.12 (d) | As specified in ITT 23.12(a) |
| ITT 24.3 | Name of the foreign currency: US Dollar/ Euro |
| ITT 25.2(b) | Spare parts are: Not Applicable |
| ITT 26.1(b) | Manufacturer's authorization is: Required. Authorization Letter from Manufacturer's Sales office (if located outside the manufacturing country) and Dealer/ Trading house will not be accepted if not supported by Manufacturer's letter. In this regard, Scanning Paper, E-mail copy, Faxed copy & Sealed signature will not be accepted. Manufacturer's signature in Authorization letter shall be handwritten by Pen i.e. signature through stamping /seal is not accepted. The Authorization letter shall mention domain E-mail address, Telephone/Fax, designation with detail address of the manufacturer representative duly signed in the manufacturer official pad. |
| ITT 26.1(C) | After-sales service is Required. |
| ITT 27.2 | The Tender validity period shall be 150 (One hundred and Fifty) days. |
| ITT 29.2 | In favour of Director, Directorate of Purchase, Bangladesh Power Development Board |
| ITT 29.3 | The amount of the Tender Security shall be as per Tender Notice. |
| ITT 34.1 | In addition to the original of the Tender, 3(three) copies shall be submitted. |
| E. Submission of Tender | |
| ITT 35.2(c) | The inner and outer envelops of tender shall bear the following additional identification marks 1. Date of Submission 2. Seal and Signature of the Tenderer Book Binding is required for original and copies |
| ITT 35.7 | Tenderer shall not have the option of submitting their tender electronically. |
| ITT 35.8 | If Tenderer shall have the option of submitting their tender electronically: Not Applicable. |
| ITT 35.9 (New Clause) | Submission of sample(s) and it's Evaluation: Not Applicable |

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| ITT 36.1 | For <u>Tender submission purposes</u> , the Purchaser’s address is: Attention: Director, Directorate of Purchase, BPDB. Address: WAPDA Building (9 th floor), Motijheel C/A, Dhaka-1000 Phone: +88 02 223383081. The deadline for submission of Tenders is: as specified in tender notice or amendment of submission time (if any) |
| F. Opening and Evaluation of Tenders | |
| ITT 42.2 | The Tender opening shall take place at: The Office of the Director, Directorate of Purchase, BPDB, Address: WAPDA Building (9th floor), Motijheel C/A,Dhaka-1000 Time & Date: On Time & Date as specified in tender notice or amendment of opening time (if any) |
| ITT 42.3 | If electronic tender submission is permitted as sated under ITT sub-clause 34.8, the specific tender opening procedures shall be: Not Applicable |
| ITT 51.1 | Domestic Preference shall be a tender evaluation factor |
| ITT 52.5 | The applicable economic factors, for the purposes of evaluation of Tenders shall be: as follows: 1. Domestic Preference |
| G. Award of Contract | |
| ITT 61.1 | The maximum percentage by which quantities per item may be increased is 20%. The maximum percentage by which quantities per item may be decreased is 20%. |
| ITT 63.2 | The amount of Performance Security shall be 10% (ten) percent of the Contract Price. |
| ITT 70.5 | The name and address of the office where complaints to the Procuring Entity under Regulation 51 are to be submitted is: Director, Directorate of Purchase BPDB, WAPDA Building (9th floor), Motijheel C/A, Dhaka-1000, Bangladesh Phone: +88 02 223383081. |

Section 3. General Conditions of Contract

1. Definitions

- 1.1 The following words and expressions shall have the meaning hereby assigned to them. Boldface type is used to identify the defined term:
- (a) **Completion Schedule** means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract;
 - (b) **Contract Agreement** means the Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein, including all attachments, appendices, and all documents incorporated by reference therein;
 - (c) **Contract Documents** means the documents listed in the Contract Agreement, including any amendments thereto;
 - (d) **Contract Price** means the price stated in the Notification of Award and thereafter as adjusted in accordance with the provisions of the Contract; ;
 - (e) **Day** means calendar days unless otherwise specified as working days;
 - (f) **Delivery** means the transfer of ownership of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract;
 - (g) **GCC** mean the General Conditions of Contract;
 - (h) **Goods** means raw materials, products and equipment and objects in solid, liquid or gaseous form, electricity, and related Services if the value of such Services does not exceed that of the Goods themselves ;
 - (i) **Government** means the Government of the People’s Republic of Bangladesh;
 - (j) **Procuring Entity/Purchaser** means a Entity having administrative and financial powers to undertake Procurement of Goods, Works or Services using public funds, as specified in the PCC;
 - (k) **Related Services** means Services linked to the supply of Goods contracts.;
 - (l) **PCC** means the Particular Conditions of Contract;
 - (m) **Subcontractor** means any natural person, private or government entity, or a combination of the above, to whom any part of the Goods to be supplied or execution of any part of the Related Services is subcontracted by the Supplier;
 - (n) **Supplier** means a Person under contract with a Purchaser for the supply of Goods and related Services under the Act;
 - (o) **Site** means the point(s) of delivery named in the PCC
 - (p) **Writing** means communication written by hand or machine duly signed and includes properly authenticated messages by facsimile or electronic mail.

- (q) **Verified Report** means the report submitted by the Purchaser to the Head of the Purchaser setting forth its findings as to the existence of grounds or causes for termination and explicitly stating its recommendation for the issuance of a Notice to Terminate.
- 2. Contract Documents**
- 2.1 Subject to the order of precedence set forth in the GCC Sub-Clause 5.1, all documents forming the Contract (and all parts thereof) are intended to be correlative, complementary, and mutually explanatory. The Contract Agreement shall be read as a whole.
- 3. Corrupt, Fraudulent, Collusive or Coercive Practices**
- 3.1 The Government requires that Purchaser, as well as Suppliers, shall observe the highest standard of ethics during the implementation of procurement proceedings and the execution of contracts under public funds.
- 3.2 The Government requires that Procuring Entities, as well as Suppliers shall, during the execution of Contracts under public funds, ensure-
- (a) strict compliance with the provisions of Section 64 of the Public Procurement Act 2006 (Act 24 of 2006);
- (b) abiding by the code of ethics as mentioned in the Rule 127 of the Public Procurement Rules, 2008;
- (c) that neither it nor any other member of its staff or any other agents or intermediaries working on its behalf engages in any practice as detailed in GCC Sub -Clause 3.3
- 3.3 For the purpose of GCC Sub-clause 3.2 the terms –
- (a) **corrupt practice** means offering, giving or promising to give, receiving, or soliciting, either directly or indirectly, to any officer or employee of a Purchaser 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 Purchaser 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 Purchaser, that is designed to arbitrarily reduce the number of Tenders submitted or fix Tender prices at artificial, noncompetitive levels, thereby denying a Purchaser the benefits of competitive price arising from genuine and open competition; or
- (d) **coercive practice** means harming or threatening to harm, directly or indirectly, Persons or their property to influence a decision to be taken in a Procurement proceeding or the execution of a Contract, and this will include creating obstructions in the normal submission process used for Tenders.

- 3.4 Should any corrupt, fraudulent, collusive or coercive practice of any kind come to the knowledge of the Purchaser, it will, in the first place, allow the Supplier to provide an explanation and shall, take actions only when a satisfactory explanation is not received. Such exclusion and the reasons thereof, shall be recorded in the record of the procurement proceedings and promptly communicated to the Supplier concerned. Any communications between the Supplier and the Purchaser related to matters of alleged fraud or corruption shall be in writing.
- 3.5 If corrupt, fraudulent, collusive or coercive practices of any kind determined by the Purchaser against the Supplier alleged to have carried out such practices, the Purchaser shall proceed under GCC Clause 42.4
- 3.6 The Supplier shall permit the Purchaser to inspect the Supplier's accounts and records and other documents relating to the submission of the Tender and Contract performance.

4. Interpretation

- 4.1 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 thereof or of the Contract. Words have their normal meaning under the English language unless specifically defined.

4.2 Entire Agreement

- (a) The Contract constitutes the entire agreement between the Purchaser and the Supplier and supersedes all communications, negotiations and agreements (whether written or oral) of parties with respect thereto made prior to the date of Contract Agreement; except those stated under GCC Sub Clause 5.1(i) .

4.3 Amendment

- (a) No amendment or other variation of the Contract shall be valid unless it is in writing, is dated, expressly refers to the Contract, and is signed by a duly authorised representative of each party thereto.

4.4 Non-waiver

- (a) Subject to GCC Sub-Clause 4.4(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 authorised representative of the party granting such waiver, and must specify the right and the extent to which it is being waived.

4.5 Severability

- (a) 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.

- 5. Documents Forming the Contract in order of precedence**
- 5.1 The following documents forming the Contract shall be in the following order of precedence, namely :
- (a) the signed Contract Agreement;
 - (b) the Notification of Award;
 - (c) The Tender and the appendices to the Tender;
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Priced Schedule and schedule of requirements and ;
 - (i) Other Documents including correspondences listed in the PCC forming part of the Contract.
- 6. Eligibility**
- 6.1 The Supplier and its Subcontractors shall have the nationality of an eligible country. A Supplier or Subcontractor shall be deemed to have the nationality of a country if it is a citizen or constituted, incorporated, or registered, and operates in conformity with the provisions of the laws of that country.
- 6.2 All Goods and Related Services to be supplied under the Contract shall have their origin in Eligible Countries.
- 6.3 For the purpose of the GCC Clause 6.2, origin means the country where the goods have been grown, mined, cultivated, produced, manufactured, or processed; or through manufacture, processing, or assembly, another commercially recognized article results that differs substantially in its basic characteristics from its components.
- 7. Governing Language**
- 7.1 The Contract shall be written in English language. Correspondence and documents relating to the Contract exchanged by the Supplier and the Purchaser shall be written in English .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 language, in which case, for purposes of interpretation of the Contract, this translation shall govern.
- 7.2 The Supplier shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.
- 8. Governing Law**
- 8.1 The Contract shall be governed by and interpreted in accordance with the laws of the People’s Republic of Bangladesh.
- 9. No fees/Gratuities**
- 9.1 No fees, gratuities, rebates, gifts, commissions or other payments, other than those shown in the Tender or the contract, shall be given or received in connection with the procurement process or in the contract execution.

- 10. Use of Contract Documents & Information**
- 10.1 The Supplier shall not, except for purposes of performing the obligations in this Contract, without the Purchaser’s prior written consent, disclose this Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample, or information furnished by or on behalf of the Purchaser. Any such disclosure shall be made in confidence and shall extend only as far as may be necessary for purposes of such performance.
- 10.2 Any document, other than this Contract itself, enumerated in GCC Clause 10.1 shall remain the property of the Purchaser and shall be returned (all copies) to the Purchaser on completion of the Supplier’s performance under this Contract if so required by the Purchaser.
- 11. Communications & Notices**
- 11.1 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.
- 11.2 A notice shall be effective when delivered or on the notice’s effective date, whichever is later.
- 11.3 A Party may change its address for notice hereunder by giving the other Party notice of such change to the address.
- 12. Trademark, Patent and Intellectual Property Rights**
- 12.1 The Purchaser should not be liable for any infringement of intellectual property rights arising from use of the goods procured. In case there are third-party claims of such infringement of patent, trademark, or industrial design rights, the supplier must indemnify and hold the Purchaser free and harmless against such claims and shall not be in contravention of **The Trademark Act, 2009 and The Patents and Designs Act, 1911.**
- 13. Copyright**
- 13.1 The copyright in all drawings, documents, and other materials containing data and information furnished to the Purchaser by the Supplier herein shall remain vested in the Supplier, or, if they are furnished to the Purchaser directly or through the Supplier by any third party, including suppliers of materials, the copyright in such materials shall remain vested in such third party.
- 14. Assignment**
- 14.1 The Supplier shall not assign his rights or obligations under the Contract, in whole or in part, except with the Purchaser’s prior written consent.
- 15. Sub contracting**
- 15.1 Any subcontracting arrangements made during contract implementation and not disclosed at the time of the Tendering shall not be allowed.
- 15.2 Subcontracting of any portion of the Goods shall not relieve the Tenderer from any liability or obligations that may arise from its performance.
- 15.3 Supplier shall retain full responsibility for the contract and can not pass any contractual obligations to the subcontractor and under no circumstances assignment of the contract to the subcontractor be allowed.
- 15.4 Subcontractors shall comply with the provisions of GCC Clause 3 and 6.

- 16. Supplier's Responsibilities** 16.1 The Supplier shall supply all the Goods and Related Services specified in the Scope of Supply as stated under GCC Clause 18 and the Delivery and Completion schedule, as stated under GCC Clauses 23 and 24 in conformity with the provisions of the Contract Agreement.
- 17. Purchaser's Responsibilities** 17.1 Whenever the performance of the obligations in this Contract requires that the Supplier obtain permits, approvals and other license from local public authorities, the Purchaser may, if so needed by the Supplier, make its best effort to assist the Supplier in complying with such requirements in a timely and expeditious manner. However, the supplier shall bear the costs of such permits and/or licenses. On the other hand, the Purchaser shall pay all costs involved in the performance of its responsibilities, in accordance with the contract.
- 17.2 The Purchaser shall pay the Supplier, in consideration of the provision of Goods and Related Services, the Contract Price under the provisions of the Contract at the times and manner prescribed in the Contract Agreement.
- 18. Scope of Supply** 18.1 Subject to the PCC, the Goods and Related Services to be supplied shall be as specified in Section 6: Schedule of Requirements.
- 18.2 Unless otherwise stipulated in the Contract, the Scope of Supply shall include all such items not specifically mentioned in the Contract but that can be reasonably inferred from the Contract as being required for attaining Delivery and Completion of the Goods and Related Services as if such items were expressly mentioned in the Contract.
- 19. Amendment to Order** 19.1 The Purchaser may make an amendment to Order for necessary adjustment within the general scope of the contract in any one or more of the following aspects in order to fully meet the requirement of the Contract:
- (a) Drawing, design or specifications of the goods, provided that:
 - i. The goods to be furnished are to be specifically manufactured for the government in accordance therewith;
 - ii. The change is an improvement of the goods and advantageous to the Government;
 - iii. It is done at no extra cost; and
 - iv. It is not prejudicial to the losing Tenderers in the sense that such change/s could not have been foreseen during the conduct of the tendering and would have significantly affected the other tenderer's tender;
 - (b) The place of delivery;
 - (c) The place of performance of the services;
 - (d) Additional items needed and necessary for the protection of the goods procured, which were not included in the original contract.
- 19.2 Such amendment may or may not result to an increase or a decrease of the contract price, and/or an extension or reduction of the delivery period. However, the amendment should not have the result of changing the subject matter of the contract or the specifications of the goods or services, in any material aspect and to such an extent that, if introduced during the Tendering stage, may have had a significant effect on other Tenderer's tender, because this situation would actually require another tendering activity.

20. Instances When Amendment to Order May be Issued

- 20.1 The Purchaser may issue amendments order at any time during contract implementation, through a notice as stated under GCC Clause 11, provided that such adjustment is required to fully meet the requirements of the contract. Any of the following circumstances may serve as basis for such amendment/s:
- (a) Emergency cases, fortuitous events or unforeseen contingencies arising during contract implementation, and such contingencies have an impact on the procurement at hand, such as:
 - i. Changes in the conditions affecting the contract, e.g., a change in the place of delivery;
 - ii. Time is of the essence in the implementation of the contract, and any changes require immediate implementation; and
 - iii. Additional requirements have been identified as necessary for the protection of the goods procured, such as changes in the packaging of the goods, or additional items have become necessary to ensure that the goods are sufficiently protected from the elements;
 - (b) When the contract does not reflect the real intention of the parties due to mistake or accident, and the amendment is necessary to reflect the party's intention; and
 - (c) Other analogous circumstances that could affect the conditions of the procurement at hand

21. Adjustments in Contract Price and/or Delivery Schedule in Amendment to Order

- 21.1 If an amendment to order increases or decreases the cost of ,or the time required for executing any part of the delivery under the original contract, an equitable adjustment in contract price and/or delivery schedule should be mutually agreed upon between parties concerned, and the contract should be modified as stated under GCC Clause 46
- 21.2 If the amendment to order consists of additional items, the price adjustment shall be based on the unit price in the original contract for items of goods similar to those in the original contract. If the contract does not contain any rate applicable to the additional items, then suitable prices shall be mutually agreed upon between the parties, based on prevailing market prices.
- 21.3 It is required, however, that any increase in contract price must not exceed ten percent (10%) of the original contract price.

22. Packing and Documents

- 22.1 The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Contract and in accordance with existing industry standards. The packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the goods' final destination and the absence of heavy handling facilities at all points in transit.
- 22.2 The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract as stated under GCC Clause 22.1,

including additional requirements, if any, specified in the PCC, and in any subsequent instructions ordered by the Purchaser.

22.3 The outer packaging must contain a "Packing List" which must reflect the actual contents of the package.

23. Delivery and Documents

23.1 Subject to GCC Sub-Clause 19, the Delivery of the Goods and completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Section 6: Schedule of Requirements.

23.2 The details of shipping and other documents to be furnished by the Supplier shall be specified in the PCC, and shall be received by the Purchaser at least one week before arrival of the Goods and, if not received the Supplier shall be responsible for consequent expenses.

24. Acceptance

24.1 Acceptance by the Purchaser shall be completed not later than fourteen (14) days from receipt of the goods at final destination in the form of an **Acceptance Certificate**, unless any defects in the supply, any damage during transportation or any failure to meet the required performance criteria of the supply are identified and reported to the Supplier as stated under GCC Clause 31 and GCC Clause 32. In such cases the Acceptance Certificate will be issued only for those parts of the contract supplies which are accepted. The Acceptance Certificate for the remaining supplies will only be issued after the Supplier has remedied the defects and/or any non-conformity under GCC Clause 31 and GCC Clause 32.

24.2 The appropriate Technical Inspection and Acceptance Committee of the Purchaser must commence the inspection and acceptance process within two (2) days from delivery of the goods, and shall complete the same as soon as practicable.

25. Contract Price

25.1 The Contract Price shall be specified in the PCC.

25.2 During evaluation, tender has excluded and not taken into account:

(a) In the case of Goods manufactured in Bangladesh, VAT payable on account of Supplier, which will be payable on the goods if a contract is awarded to the Tenderer;

(b) in the case of Goods manufactured outside the Bangladesh, already imported or to be imported, customs duties, import VAT and other import taxes levied on the imported Good, VAT, which will be payable on the Goods if the contract is awarded to the Tenderer.

25.3 The Contract price will include all the costs paid or payable as stated under GCC Clause 25.2.

25.4 Prices charged by the Supplier for the Goods delivered and the Related Services performed under the Contract shall not vary from the price as stated under GCC Sub-Clause 25.1, with the exception of any change in price resulting from a Change Order issued under GCC Clause 19.

- 26. Transportation**
- 26.1 The Supplier is required under the Contract to transport the Goods to a specified place of destination as specified in Section 6: Schedule of Requirements, defined as the Site, transport to such place of destination, including insurance, other incidental costs, and temporary storage, if any. These costs shall be included in the Contract Price.
- 26.2 If not in accordance GCC Clause 26.1, responsibility for transportation of the Goods shall be as specified in the **INCOTERM** indicated in the Price Schedule or any other trade terms specify the responsibilities of the Purchaser and Supplier as specified in PCC.
- 27. Terms of Payment**
- 27.1 The Contract Price, including any Advance Payments, if applicable, shall be paid in the manner as specified in the PCC.
- 27.2 The Supplier's request for payment shall be made to the Purchaser in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and Related Services performed, and accompanied by the documents as stated under GCC Clause 23 and 24 and upon fulfilment of any other obligations stipulated in the Contract.
- 27.3 Payments shall be made promptly by the Purchaser, but in no case later than the days indicated in the PCC after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it.
- 27.4 The currencies in which payments shall be made to the Supplier under this Contract shall be those in which the tender price is expressed.
- 27.5 In the event that the Purchaser fails to pay the Supplier any payment by its respective due date or within the period set forth in the PCC, the Purchaser shall pay to the Supplier interest on the amount of such delayed payment at the rate shown in the PCC, for the period of delay until payment has been made in full, whether before or after judgment or arbitration award.
- 28. Insurance**
- 28.1 The Goods supplied under this Contract shall be fully insured by the Supplier in a freely convertible currency against loss or damage incidental to manufacture or acquisition, transportation, storage, and delivery. The Goods remain at the risk and title of the Supplier until their final acceptance by the Purchaser.
- 28.2 If not in accordance GCC Clause 28.1, the insurance coverage shall be as specified in the **INCOTERM** indicated in the Price Schedule or any other insurance provisions as specified in PCC.
- 29. Taxes and Duties**
- 29.1 For Goods Manufactured within Bangladesh, the Supplier shall be entirely responsible for all taxes, duties, VAT, license fees, and other such levies imposed or incurred until delivery of the contracted goods to the Purchaser.
- 29.2 For Goods manufactured outside Bangladesh, the Supplier shall be entirely responsible for all taxes, duties and other such levies imposed outside Bangladesh.
- 29.3 If any tax exemptions, reductions, allowances or privileges may be available to the Supplier in Bangladesh, the Purchaser shall use its best efforts to enable the Supplier to benefit from any such tax savings to the maximum allowable extent.

30. Performance Security

- 30.1 The proceeds of the Performance Security shall be payable to the Purchaser as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.
- 30.2 The Performance Security shall be discharged by the Purchaser and returned to the Supplier not later than Thirty (30) days following the date of Completion of the Supplier's performance obligations under the Contract and the issuance of certification to that effect by the Purchaser, including any warranty obligations as stated under GCC Clause 33, provided that there are no claims filed against the supplier.

31. Specifications and Standards

- 31.1 The Goods and Related Services supplied under this Contract shall conform to the technical specifications and standards mentioned in Section 7, Technical Specification and in Section 8, Drawings, if any.
- 31.2 If there is no applicable standard, the goods must conform to the authoritative standards appropriate to the good's country of origin. Such standards must be the latest issued by the concerned institution.
- 31.3 Subject to the GCC Clause 19, the Supplier shall be entitled to disclaim responsibility for any design, data, drawing, specification or other document, or any modification thereof provided or designed by or on behalf of the Purchaser, by giving a notice of such disclaimer to the Purchaser.
- 31.4 Wherever references are made in the Contract to codes and standards in accordance with which it shall be executed, the edition or the revised version of such codes and standards shall be those specified in the Technical Specification. During Contract execution, any changes in any such codes and standards shall be applied only after approval by the Purchaser and shall be treated under GCC Clause 19.

32. Inspections and Tests

- 32.1 The Purchaser shall have the right to test the Goods to confirm their conformity to the Contract specifications. The PCC and Technical specifications shall specify what tests the Purchaser requires and where they are to be conducted. The supplier shall at its own expense and at no cost to the Purchaser, carry out all such tests of the Goods and related services as are specified in the Contract.
- 32.2 The Supplier shall provide the Purchaser with a report of the results of any such test.
- 32.3 The Purchaser may engage external agents for the purpose of conducting inspection or pre-shipment inspection of Goods, provided that the Purchaser shall bear all of its costs and expenses.
- 32.4 The Purchaser or its designated representative as specified shall be entitled to attend the tests and/or inspections under GCC Clause 32.1, provided that the Purchaser shall bear all of its own costs and expenses incurred in connection with such attendance.
- 32.5 Whenever the Supplier is ready to carry out any such test and inspection, it shall give a reasonable advance notice, including the place and time, to the Purchaser. The Supplier shall obtain from any relevant third party or manufacturer any necessary permission or consent to enable the Purchaser or its designated representative to attend the test and/or inspection.

- 32.6 The Purchaser may require the Supplier to carry out any test and/or inspection not required by the Contract, but deemed necessary to verify that the characteristics and performance of the Goods comply with the technical specifications, codes and standards under the Contract, provided that the Supplier's reasonable costs and expenses incurred in the carrying out of such test and/or inspection shall be added to the Contract Price. Further, if such test and/or inspection impede the progress of manufacturing and/or the Supplier's performance of its other obligations under the Contract, due allowance will be made in respect of the Delivery Dates and Completion Dates and the other obligations so affected.
- 32.7 The Purchaser may reject any Goods or any part thereof that fail to pass any test and/or inspection or do not conform to the specifications. The Supplier shall either rectify or replace such rejected Goods or parts thereof or make alterations necessary to meet the specifications at no cost to the Purchaser, and shall repeat the test and/or inspection, at no cost to the Purchaser, upon giving a notice under GCC Sub-Clause 32.5.
- 32.8 The Supplier agrees that neither the execution of a test and/or inspection of the Goods or any part thereof, nor the attendance by the Purchaser or its representative, nor the issue of any report as stated under GCC Sub-Clause 32.2, shall relieve the Supplier from any warranties or other obligations under the Contract.

33. Warranty

- 33.1 The Supplier warrants that all the Goods supplied under the Contract are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, except when the design and/or material required by the Purchaser provides otherwise under GCC Clause 19.
- 33.2 The Supplier further warrants that the all Goods supplied under this Contract shall have no defect, arising from design, materials, or workmanship or from any act or omission of the Supplier that may develop under normal use of the supplied Goods in the conditions prevailing in Bangladesh.
- 33.3 In order to assure that manufacturing defects shall be corrected by the Supplier, manufacturer, or distributor, as the case may be, a warranty shall be required from the Supplier for a minimum period of three (3) months in the case of supplies, and one (1) year in the case of equipment, or other such period as may be specified in the PCC, after the Goods, or any portion thereof as the case may be, have been delivered to and accepted in the form of an **Acceptance Certificate** as indicated in the GCC Clause 24.1 at the final destination indicated in the PCC
- 33.4 The warranty periods may vary among the various items and lots. The warranty for Goods delivered ahead will lapse earlier than the succeeding deliveries.
- 33.5 The Purchaser shall promptly notify the Supplier in writing of any claims arising under this warranty.
- 33.6 Upon receipt of such notice, the Supplier shall, within the period specified in the PCC, expeditiously repair or replace the defective Goods or parts thereof, at no cost to the Purchaser.
- 33.7 If the Supplier, having been notified, fails to remedy the defect(s) within the period as stated under GCC Sub Clause 33.6, the Purchaser may

proceed to call upon the Performance security without prejudice to any other rights which the Purchaser may have against the Supplier under the Contract and under the applicable law.

- 33.8 Performance Security under GCC Clause no 30 shall only be released after the lapse of the warranty period, provided that the goods supplied are free from patent and latent defects and all the conditions imposed under the contract have been fully met.
- (a) A patent defect, which is one that is apparent to the buyer on normal observation. It is an apparent or obvious defect.
 - i. For example, a ball pen that does not write is patently defective.
 - (b) A latent defect, which is one that is not apparent to the buyer by reasonable observation. A latent defect is “hidden” or one that is not immediately determinable.
 - i. For example, a ball pen that writes .75 kilometers instead of the expected 1.5 kilometers, has a latent defect.

34. Delays in Delivery and Extensions of Time

- 34.1 The Supplier must deliver the Goods or perform the services procured within the period prescribed by the Purchaser, as specified in the Contract.
- 34.2 If at any time during performance of the Contract, the Supplier or its subcontractors should encounter conditions impeding timely delivery of the Goods or completion of Related Services as stated under GCC Clause 23, the Supplier shall promptly notify the Purchaser in writing. It must state therein the cause/s and duration of the expected delay. The Purchaser shall decide whether and by how much to extend the time. In all cases, the request for extension should be submitted before the lapse of the original delivery date.
- 34.3 Within twenty-one (21) days of receipt of the Supplier’s notice, the Purchaser shall evaluate the situation and may grant time extensions, if based on justifiable grounds, without liquidated damages.
- 34.4 The Procuring may extend up to twenty percent (20%) of the original contract time, above 20% of the original contract time approval of Head of Purchaser (HOPE) shall be required, in which case the extension shall be ratified by the Parties by amendment of the Contract as stated under GCC Clause 46.
- 34.5 Except in the case of Force Majeure, as provided under GCC Clause 38, a delay by the Supplier in the performance of its Delivery and Completion obligations shall render the Supplier liable to the imposition of liquidated damages as stated under GCC Clause 35, unless an extension of time is agreed upon, under GCC Sub-Clause 34.3.

35. Liquidated Damages

- 35.1 Subject to GCC Clause 34 and 38, if the , if the Supplier fails to deliver any or all of the Goods by the Date(s) of delivery and/or perform the Related Services within the period specified in the Contract as stated under GCC Clause 23, the Purchaser shall, without prejudice to all its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in the PCC of the Contract price of the delayed Goods or unperformed / Related Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in those PCC. Once the maximum is reached, the Purchaser may terminate

the Contract as stated under GCC Clause 42.

36. Limitation of Liability

36.1 Except in cases of criminal negligence or wilful misconduct, and in the case of infringement of patent and intellectual property rights, if applicable, the Supplier shall not be liable to the Purchaser, 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, the aggregate liability of the Supplier to the Purchaser shall not exceed the total Contract Price, provided that this limitation shall not apply, to the cost of repairing or replacing defective equipment or, to any obligation of the Supplier to pay liquidated damages to the Purchaser.

37. Change in Laws and Regulations

37.1 Unless otherwise specified in the Contract, if after the Contract, 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 Delivery Date and/or the Contract Price, then such Delivery Date and/or Contract Price shall be correspondingly increased or decreased, to the extent that the Supplier has thereby been affected in the performance of any of its obligations under the Contract.

38. Definition of Force Majeure

38.1 In this Clause, "Force Majeure" means an exceptional event or circumstance:

- (a) which is beyond a Party's control;
- (b) which such Party could not reasonably have provided against before entering into the Contract;
- (c) which, having arisen, such Party could not reasonably have avoided or overcome; and
- (d) which is not substantially attributable to the other Party.

38.2 Force Majeure may include, but is not limited to, exceptional events or circumstances of the kind listed below, so long as conditions (a) to (d) above are satisfied:

- (i) war, hostilities (whether war be declared or not), invasion, act of foreign enemies;
- (ii) rebellion, terrorism, sabotage by persons other than the Contractor's Personnel, revolution, insurrection, military or usurped power, or civil war;
- (iii) riot, commotion, disorder, strike or lockout by persons other than the Contractor's Personnel;
- (iv) 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
- (v) natural catastrophes such as cyclone, hurricane, typhoon, tsunami, storm surge, floods, earthquake, landslides, fires, epidemics, quarantine restrictions, or volcanic activity;
- (vi) freight embargoes;
- (vii) acts of the Government in its sovereign capacity.

- 39. Notice of Force Majeure**
- 39.1 If a Party is or will be prevented from performing its substantial obligations under the Contract by Force Majeure, then it shall give notice 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. The notice shall be given within 14 days after the Party became aware, or should have become aware, of the relevant event or circumstance constituting Force Majeure.
- 39.2 The Party shall, having given notice, be excused performance of its obligations for so long as such Force Majeure prevents it from performing them.
- 39.3 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.
- 40. Duty to Minimise Delay**
- 40.1 Each Party shall at all times use all reasonable endeavours to minimise any delay in the performance of the Contract as a result of Force Majeure.
- 40.2 A Party shall give notice to the other Party when it ceases to be affected by the Force Majeure.
- 41. Consequences of Force Majeure**
- 41.1 The Supplier shall not be liable for forfeiture of its Performance Security, liquidated damages, or termination for default if and to the extent that its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 41.2 The Purchaser may suspend the delivery or contract implementation, wholly or partly, by written order for a certain period of time, as it deems necessary due to force majeure as defined in the contract.
- 41.3 Delivery made either upon the lifting or the expiration of the suspension order. However, if the Purchaser terminates the contract as stated under GCC clause 42, resumption of delivery cannot be done.
- 41.4 Head of Purchaser determines the existence of a force majeure that will be basis of the issuance of suspension of order.
- 41.5 Adjustments in the delivery or contract schedule and/or contract price, Including any need to modify contract under GCC Clause 46.
- 42. Termination for Default**
- 42.1 The Purchaser shall terminate this Contract for default when any of the following conditions attends its implementation:
- (a) Outside of force majeure, the Supplier fails to deliver or perform any or all of the GOODS within the period(s) specified in the contract, or within any extension thereof granted by the Purchaser pursuant to a request made by the Supplier prior to the delay;
- (b) As a result of force majeure, the Supplier is unable to deliver or perform any or all of the GOODS, amounting to at least ten percent (10%) of the contract price, for a period of not less than sixty (60) calendar days after receipt of the notice from the Purchaser stating that the circumstance of force majeure is deemed to have ceased; or

- (c) The Supplier fails to perform any other obligation under the Contract;
 - (d) If the Supplier, in the judgment of the Purchaser has engaged in corrupt, fraudulent, collusive or coercive practices, as stated under GCC Clause 3, in competing for or in executing the Contract;
 - (e) When deductible amount due to liquidated damage reaches its maximum as stated under GCC Clause 35.
- 42.2 Termination of a contract for default is without prejudice to other remedies available to the Purchaser for breach of contract, such as payment of liquidated and other damages, if there are grounds for the latter.
- 42.3 In the event the Purchaser terminates the Contract in whole or in part, as stated under GCC Clause 42.1, the Purchaser may procure, upon such terms and in such manner as it deems appropriate, Goods or Related Services similar to those undelivered or not performed, and the Supplier shall be liable to the Purchaser for any additional costs for such similar Goods or Related Services. However, the Supplier shall continue performance of the Contract to the extent not terminated.
- 42.4 In the event as stated under GCC Clause 42.1(d),the Purchaser shall,
- (a) terminate the Supplier's employment under the Contract and cancel the contract, after giving 14 days notice to the Supplier and the provisions of Clause 42 shall apply as if such expulsion had been made under Sub-Clause 42.1
 - (b) declare, at its discretion, the concerned Person to be ineligible to participate in further Procurement proceedings, either indefinitely or for a specific period of time.
- 43. Termination for insolvency** 43.1 The Purchaser shall terminate this Contract if the Supplier is declared bankrupt or insolvent as determined with finality by a court of competent jurisdiction. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the Purchaser and/or the Supplier.
- 44. Termination for Convenience** 44.1 The Purchaser, by written notice sent to the supplier, may terminate this Contract, in whole or in part, at any time for its convenience. The notice of termination shall specify that the termination is for the Purchaser's convenience, the extent to which performance of the supplier under the contract is terminated, and the date upon which such termination becomes effective.

- 44.2 Any of the following circumstances may constitute sufficient grounds to terminate a contract for conveniences :
- (a) If Physical and economic conditions have significantly changed so as to render the contract no longer economically, financially or technically feasible, as determined by the Head of Purchaser;
 - (b) The Head of Purchaser has determined the existences of conditions that make contract implementation impractical and/or unnecessary, such as, but not limited to , fortuitous event/s, change in laws and government policies;
 - (c) Funding for the contract has been withheld or reduced;
 - (d) Any circumstances analogous to the foregoing.
- 44.3 The GOODS that have been delivered and/or performed or are ready for delivery or performance within thirty (30) calendar days after the Supplier's receipt of Notice to Terminate shall be accepted by the Purchaser at the contract terms and prices. For GOODS not yet performed and/or ready for delivery, the Purchaser may elect:
- (a) to have any portion delivered and/or performed and paid at the contract terms and prices; and/or
 - (b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed and/or performed goods and for materials and parts previously procured by the Supplier.

45. Procedures for Termination of Contracts

- 45.1 The following provisions shall govern the procedures for termination of this Contract as stated under GCC Clauses 42,43 and 44:
- (a) Upon receipt of a written report of acts or causes which may constitute ground(s) for termination as aforementioned, or upon its own initiative, the Purchaser shall, within a period of seven (7) calendar days, verify the existence of such ground(s) and cause the execution of a Verified Report, with all relevant evidence attached;
 - (b) Upon recommendation by the Purchaser, the Head of the Purchaser shall terminate this Contract only by a written notice to the Supplier conveying the termination of this Contract. The notice shall state:
 - i. that this Contract is being terminated for any of the ground(s) afore-mentioned, and a statement of the acts that constitute the ground(s) constituting the same;
 - ii. the extent of termination, whether in whole or in part;
 - iii. an instruction to the Supplier to show cause as to why this Contract should not be terminated; and
 - iv. special instructions of the Purchaser, if any.
 - (c) The Notice to Terminate shall be accompanied by a copy of the Verified Report;
 - (d) Within a period of seven (7) calendar days from receipt of the Notice of Termination, the Supplier shall submit to the Head of the Purchaser a verified position paper stating why this Contract

should not be terminated. If the Supplier fails to show cause after the lapse of the seven (7) day period, either by inaction or by default, the Head of the Purchaser shall issue an order terminating this Contract;

- (e) The Purchaser may, at anytime before receipt of the Supplier's verified position paper, withdraw the Notice to Terminate if it is determined that certain items or works subject of the notice had been completed, delivered, or performed before the Supplier's receipt of the notice;
- (f) Within a non-extendible period of ten (10) calendar days from receipt of the verified position paper, the Head of the Purchaser shall decide whether or not to terminate this Contract. It shall serve a written notice to the Supplier of its decision and, unless otherwise provided, this Contract is deemed terminated from receipt of the Supplier of the notice of decision. The termination shall only be based on the ground(s) stated in the Notice to Terminate; and
- (g) The Head of the Purchaser may create a Contract Termination Review Committee (CTRC) to assist him in the discharge of this function. All decisions recommended by the CTRC shall be subject to the approval of the Head of the Purchaser.

46. Contract Amendment

- 46.1 Subject to applicable laws, no variation in or modification of the terms of this Contract shall be made except by written amendment signed by the parties.
- i) 46.2 The Purchaser, in accordance with their Delegation of Financial Powers, as required, may amend the Contract to reflect the changes introduced to the Original terms and Conditions of the Contract.

47. Settlement of Disputes

- 47.1 **Amicable Settlement:**
 - (a) The Purchaser and the Supplier shall use their best efforts to settle amicably all disputes arising out of or in connection with this Contract or its interpretation.
- 47.2 **Adjudication**
 - (a) If the Supplier /Purchaser believe that amicable settlement of dispute is not possible between the two parties, the dispute shall be refereed to the Adjudicator within fourteen (14) days of first written correspondence on the matter of disagreement;
 - (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 supplier shall make all payments (fees and reimbursable expenses) to the Adjudicator, and the Purchaser shall reimburse half of these fees through the regular progress payments;

- (e) Should the Adjudicator resign or die, or should the Purchaser and the Supplier agree that the Adjudicator is not functioning in accordance with the provisions of the Contract; a new Adjudicator will be jointly appointed by the Purchaser and the Supplier. In case of disagreement between the Purchaser and the Supplier the Adjudicator shall be designated by the Appointing Authority designated in the PCC at the request of either party, within fourteen (14) days of receipt of a request from either party.

47.3 **Arbitration**

- (a) If the Parties are unable to reach a settlement under GCC Clause 47.1(a) 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 47.3(b);
- (b) The arbitration shall be conducted in accordance with the rules of procedure specified in the PCC.

Section 4. Particular Conditions of Contract

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| <i>Instructions for completing the Particular Conditions of Contract are provided, as needed, in the notes in italics mentioned for the relevant GCC clauses.</i> | |
| GCC Clause | Amendments of, and Supplements to, Clauses in the General Conditions of Contract |
| GCC 1.1(j) | <p>The Procuring Entity/Purchaser is Bangladesh Power Development Board (BPDB),</p> <p style="text-align: center;">Representative</p> <p>Director, Directorate of Purchase, BPDB, WAPDA Building (9th floor), Motijheel C/A, Dhaka-1000. Phone: +88 02 223383081.</p> <p style="text-align: center;">Consignee</p> <p>Director, Directorate of Electrical Equipment, BPDB, Bidhut Bhaban (4th Floor), 1 Abdul Gani Road, Dhaka-1000. Phone: +88 02 223380509</p> <p style="text-align: center;">Engineer</p> <p>Director, Directorate of Design & Inspection-II, 9/B, Motijheel C/A, Dhaka-1000. Phone: +88 02 223383613.</p> |
| GCC 1.1(o) | The site(s)/ point(s) of delivery is Central Store, BPDB, at Tongi, Gazipur. |
| GCC 5.1(i) | <p>The following documents shall also be part of the Contract:</p> <p>Acceptance of NOA, Performance Security and All Correspondences between purchaser and Supplier prior to signing of the contract</p> |
| GCC 11.1 | <p>For notices, the Purchaser's contact details shall be:</p> <p>Attention: Director, Directorate of Purchase, BPDB, Dhaka.</p> <p>Address: WAPDA Building (9th floor), Motijheel C/A, Dhaka-1000, Bangladesh</p> <p>Telephone: +88 02 223383081.</p> <hr/> <p>For notices, the Supplier's contact details shall be:</p> <p>Attention:</p> <p>Address:</p> <p>Telephone:</p> <p>Facsimile number:</p> <p>Electronic mail address:</p> |
| GCC 18.1 | <p>The scope of Supply shall be defined in:</p> <p>As specified in section 6, Schedule of Requirements. and section 7: Technical specification</p> |

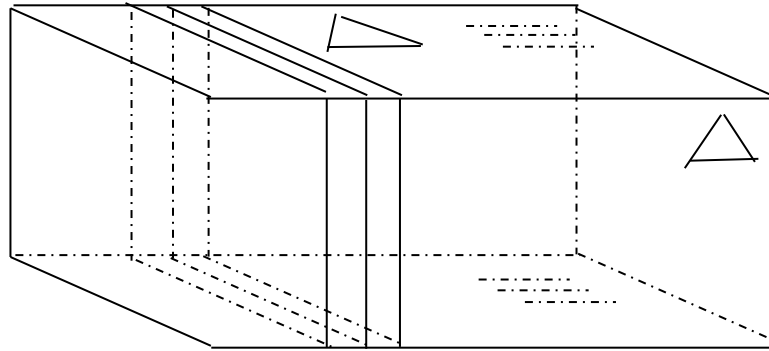
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| <p>GCC 22.2</p> | <p>The packing, marking and documentation inside and outside the packages shall be:</p> <p>A complete packing list indicating the content of each package shall be enclosed in a waterproof envelop and shall be secured to the outside of the packing case. In addition, each package shall be marked with indelible ink/paint in bold letters, as follows :</p> <p>Name and address of Procuring Entity</p> <p>Name of the Supplier</p> <p>Contract Description</p> <p>Final Destination/Delivery Point</p> <p>Gross weight</p> <p>Package number of total number of packages</p> <p>Brief description of the content</p> <p>Any special lifting instructions</p> <p>Any special handling instructions</p> <p>Upright markings, where appropriate, shall be placed on all four vertical sides of the package.</p> <p>All material used for packing shall be environmentally neutral.</p> <p>Additional markings and documentation within and outside the packages shall be :</p> <ol style="list-style-type: none"> 1) The Supplier shall provide such packing of the goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights, shall take into consideration, where appropriate, the remoteness of final destination of the supply and the absence of heavy handling facilities at all points in transit. 2) The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Contract and in any subsequent instructions ordered by the Purchaser. 3) The supplier shall provide such crate for shipment of goods as to protect the equipment and materials. 4) Delivery of the goods shall be made by the Supplier in accordance with the terms and conditions of the contract and the goods shall remain at the risk of the Supplier until delivery has been completed. Delivery shall be considered to have been completed when the last consignment to be delivered are accepted and taken over by the Purchaser at the final destination. All transportation, insurance and other costs incurred in delivering the goods to the final destination shall be entered in the Tenderer's price schedule. 5) The Supplier warrants that the goods supplied under the Contract are new and unused of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. 6) The Supplier further warrants that all goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except in so far |
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| | <p>as the design or material is required by the Purchaser's Specifications) or from any act or omission of the Supplier, that may develop under normal use of the Supplied Goods in the conditions obtaining in the country of final destination.</p> <p>7) No goods should be shipped, without prior instruction from the Engineer /Purchaser. In cases, where the goods have been passed inspection but the Contractor from the Engineer/Purchaser has not received the instruction of delivery within one month from the date of inspection, the contractor may proceed with the shipment. In case of ex-factory basis delivery for domestic goods, the purchaser shall arrange to lift the goods from the specified place of the factory/warehouse within 30 (thirty) days after the date of inspection/ acceptance certificate issued by the Purchaser.</p> <p>8) All air cargoes destined for the site shall be landed at Hazrat Shahjalal International airport of Dhaka as specified in Tender Document.</p> <p>9) Any items liable to be damaged in transit shall be effectively protected and securely fixed in their cases. All lists of over 1(one) ton shall be marked to show where slings should be placed.</p> <p>10) The Supplier shall give complete shipping information concerning the weight, size, content of each package including any other information the Purchaser or the Engineer may require.</p> <p>11) All materials used in packing are to comply with the relevant Bangladesh regulations. Adequate protection and precautions are to be taken to exclude termites or other vermin, noxious insects, larva or fungus from the packing materials or plant. All contents are to be clearly marked for easy identification against the packing list.</p> <p>12) All galvanized ferrous materials shall, in any case, not be touched with water and shall not be handled with any chemical products during transportation to prevent the corrosive effect to the galvanized surface.</p> <p>13) The Supplier shall pack and crate all goods for export to a tropical, humid climate and for ocean transport and in accordance with internationally accepted export practice and such a manner as to protect it from damage and deterioration in transit by truck, rail and sea. The Supplier shall be held responsible for and make good any and all damages costs involved due to improper and inadequate packing. Each box or other unit of shipment shall be eligible and properly marked in addition to the usual Supplier's marking code. Detailed instructions for marking shown are given in tender document and such marking shall be written either on the box itself or on a metallic tag for drums, steel section etc. strongly attached to the Equipment.</p> <p>14) Two bands red and green, each 25 mm (1 inch) wide or combined width not exceeding one- quarter the length of the package shall be painted around the package as shown in figure.</p> <p>15) The following monogram, measuring about one quarter of the side of the package shall also be painted in red on at least two sides of the package.</p> <p style="text-align: center;">BANGLADESH POWER DEVELOPMENT BOARD</p> <p>16) All equipment is to be packaged in bundles and labeled for the appropriate town according to the list that will be provided to the successful bidder for each lot. Any items liable to be damaged in transit shall be effectively protected and securely fixed in their cases. All lifts of over 2 tones shall be</p> |
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| | <p>marked to show where slings should be placed.</p> <p>All identification marks on the outside of cases are to be waterproof and permanent and as shown in Figures.</p> <p>17) All delicate electrical equipment shall be adequately sealed and desiccating agents used where necessary to prevent damage from condensation. All equipment shall be packed and protected bearing in mind that it will be shipped to a tropical zone and that a considerable period may elapse between its arrival on site and its unpacking.</p> <p>18) Underground cables and overhead conductors shall be delivered wound on strong Aluminium or wooden drums. Drums with an outside diameter not exceeding 2.5 meters and an outside width exceeding 1.4 meters shall not be used except with the Engineers approval. The central hole of the drums shall be reinforced to fit an axle size 95mm diameter. The interior of the conductor drums shall be lined with bituminous paper to prevent the conductor from being in contact with the Aluminium or timber. Waterproof paper and felt lining shall overlap at seams by at least 20mm and the seams shall be sealed.</p> <p>19) Drums shall be adequately protected by securely fastening substantial wooden battens around the periphery. These battens shall be secured by means of hoop metal bindings to approval.</p> <p>20) Cables and conductors shall be securely fastened around the periphery of the drum. Cables shall be supplied with both ends properly capped and protected against damage. Each drum and one of each cable length shall bear a metal label detailing manufacturers name, specified voltage and type of conductor. Cables drums shall be treated in an approved manner to resist termite and fungus attacks and shall be suitable for outside storage for a minimum period of five years in an equatorial climate without undue deterioration. The leading end of cable on cable drums shall be the 'A' end as defined in BS 6480.</p> <p>21) The inner cable end attached to the drum shall be capped and sealed in such a manner that core screening and sheath are able to be measured from the outer cable and without removing the inner end cap. The thread of bolts used to strengthen the cable drums shall be pinned in such a way that the nut can be lightened but cannot be readily removed.</p> <p>22) Other electrical equipment items shall be packed for transport to site so that they are protected against the climatic conditions and handling to which they may be subjected in transit and in storage at the site. They shall be enclosed in planked wooden boxes with hoop metal bindings with ends sealed. Bindings shall be of rust less material.</p> <p>23) The Supplier shall pack and crate all Equipment for export to a tropical, humid climate and for ocean transport and in accordance with internationally accepted export practice and in such a manner as to protect it from damage and deterioration in transit by truck, rail and sea. The Supplier shall be held responsible for and make good any and all damages costs involved due to improper and inadequate packing.</p> <p>24) Each box or other unit of shipment shall be legible and properly marked in addition to the usual Suppliers marking code. Detailed instructions for marking as shown in Figure shall be written either on the box itself or on a metallic tag for drums, steel section etc, strongly attached to the Equipment.</p> <p>25) Contents of cases are to be bolted securely or fastened in position with</p> |
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struts or cross battens and not with wooden chocks wedged in place unless otherwise firmly fastened. All struts or cross battens are preferably to be supported by cleats fixed to the case, above and below, to form edges on which the batten may rest. Open cases shall not be used. Where parts are required to be bolted to the sides of the case, large washers are to be used to distribute the pressure and the timber is to be strengthened by means of a pad.

26) All cases shall be clearly identified giving particulars of manufacturer's name and type of equipment.



GCC 23.2

Details of shipping and documents to be furnished by the Supplier shall be:

Upon shipment of goods, the Supplier shall notify the Purchaser and the Insurance Company by Cable or fax or telex: the full details of the shipment including Contract number, description of Goods, quantity, the bill of landing number and date, port of loading, date of shipment, port of discharge, etc. The Supplier shall mail the following documents to the Purchaser, with a copy to the Insurance Company: as applicable:

- i) Copies of the Supplier's invoice showing goods description, quantity, unit price, total amount.
 - ii) 1(one) original and 8 (eight) copies of the negotiable, clean, on-board bill of lading marked freight prepaid and 8 (eight) copies of non-negotiable bill of lading, where applicable.
 - iii) 8 (Eight) copies of packing list identifying contents of each package;
 - iv) Insurance certificate;
 - v) Certificate of origin;
 - vi) Manufacturer's/supplier's warranty certificate;
 - vii) Inspection certificate, issued by the nominated inspection agency (or Purchaser's Inspection Team) and/or the Supplier's factory inspection report (if any);
 - viii) Shipping advice issued by the Purchaser;
 - ix) Freight Memo/Truck Challan;
- 3) The Purchaser shall receive the above documents at least one week before arrival of Goods at the port and, if not received, the Supplier will be responsible for any consequent expenses.
- 4) The negotiable sets of documents shall be originals signed by the Supplier. The Commercial Invoice is to show material value plus freight as applicable.

Shipping Documents:

The Purchaser shall receive the shipping documents at the latest one-week before arrival of cargoes at the airport of Dhaka or any sea/ land port of entry in Bangladesh.

The shipping documents shall be supplied to as follows:

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| 1 | Director, Purchase, BPDB, WAPDA Building, Motijheel C/A., Dhaka 1000 | 2 (Two) sets |
| 2 | Director, Finance, Biddut Bhaban (7 th Floor)1, Abdul Gani Road, Dhaka-1000 | 2 (Two) sets |
| 3 | Director, Clearance & Movement, BPDB, Chittagong/Dhaka | 2 (Two) sets |
| 4 | Deputy Director, Clearance & Movement BPDB, Chittagong/Dhaka /Khulna | 1 (one) set |
| 5 | Dy. Director, Insurance, BPDB, Dhaka | 1 (one) set |

No goods should be shipped or delivered without prior instruction (shipping advice) from the Purchaser.

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| | <p>For Goods from within the Purchaser’s country as per INCOTERM EXW:</p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Purchaser and send the following documents to the Purchaser:</p> <ul style="list-style-type: none"> (a) 8 copies of the Supplier’s invoice showing the description of the Goods, quantity, unit price, and total amount; (b) delivery note, railway receipt, or truck receipt; (c) Manufacturer’s or Supplier’s warranty certificate; (d) inspection certificate issued by the nominated inspection agency, and the Supplier’s factory inspection report; and (e) certificate of origin. <p>The Purchaser, shall receive the above documents before the arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p> |
| GCC 24.3 (New Clause) | ACCEPTANCE CERTIFICATE will be issued within fourteen (14) days after successfully completion of Post Landing Inspection, Satisfactory R&I Report and Successfully completion of related service (if any). |
| GCC 25.1 | The Contract Price is |
| GCC 25.3 | For Goods manufactured outside Bangladesh and to be imported, customs duties, import VAT and other import taxes levied on the imported Goods will be paid by Purchaser. Hence contract price will not include these costs. |
| GCC 26.2 | Responsibility of the Purchaser and Supplier is: Marine Insurance as well as Local Insurance cost shall be paid by BPDB. Hence these cost shall not be included in the contract price. |
| GCC 27.1 | <ul style="list-style-type: none"> (a) Payment of foreign currency portion shall be made through Letter of Credit (L/C) opened in favor of the Supplier in a schedule Bank of Bangladesh. (b) Payment of Local currency portion shall be made direct through CP & AA Cell, BPDB, Dhaka. <p>1. Payment for Goods supplied from abroad (Form PG4-3B):</p> <ul style="list-style-type: none"> i) Advance Payment : Not Applicable ii) On Shipment: Seventy (70) percent of the foreign currency Price of the Goods shipped shall be paid through letter of credit opened in favour of the Supplier in a bank in its country, upon submission of documents specified in GCC Clause 23. and issuance of payment advice by the Director, Purchase, BPDB iii) On Acceptance: Thirty (30) percent of the foreign currency price of Goods received shall be paid upon receipt of the goods within thirty (30) days of submission of claim bill duly verified by Consignee, certified by Engineer and payment Approved by the Director, Purchase, BPDB supported by the Acceptance Certificate issued by the Director, Purchase, BPDB specified in GCC Clause 24. <ul style="list-style-type: none"> a) Partial Shipment is allowed. For a Tender (or for a lot of Tender), if contract is signed for a single item (as per price schedule), then only partial payment against On Shipment is allowed for shipment/ supply of partial quantities. Otherwise, partial payment is not allowed. b) Transshipments allowed as and when/where required as per prior approval of the procuring entity. c) Third Party B/L shall be allowed as and when/where required as per |

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| | <p>prior approval of the procuring entity.</p> <p>100% (hundred) percent Payment of local currency portion shall be made in Bangladesh Taka within thirty (30) days of presentation of claim bill duly certified by Director, Purchase, BPDB supported by Acceptance Certificate declaring that the Goods have been delivered and that all other contracted Related Services have been performed.</p> |
| | <p>2. Payment for Goods manufactured outside Bangladesh, already imported(PG4-3C) , Payment for Goods manufactured in Bangladesh (PG4-3A) and Payment for Services (PG4-3D):</p> <p>i) Advance Payment : Not Applicable</p> <p>ii) On Delivery and Acceptance: Hundred (100%) percent of the Contract Price of the Goods delivered shall be paid within thirty (30) days of submission of documents specified in GCC Clause 23.2 supported by the Acceptance Certificate issued by the Director, Purchase, BPDB as per GCC Clause 24.</p> <p>BANKING CHARGES:</p> <p>a) Letter of Credit opening and other charges including amendment charges within Bangladesh shall be borne by BPDB and those outside Bangladesh shall be borne by the supplier.</p> <p>b) The supplier shall have to bear all such charges both inside and outside Bangladesh in case of extension of L/C if done at the request of the supplier.</p> |
| GCC 27.3 | Payments shall be made in no case later than the 60(sixty) days after submission of an invoice or request for payment by the Supplier, and after the Purchaser has accepted it. |
| GCC 27.5 | The payment-delay period after which the Purchaser shall pay interest to the supplier shall be [<i>Nil</i>] days. : Not Allowed |
| GCC 28.2 | The Contractor / supplier shall secure and maintain throughout the duration of the contract insurance of such types and in such amounts as may be necessary to protect himself and the interest of BPDB/ Purchaser against hazards of risk or loss at BPDB'S cost. |

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| <p>GCC 28.2</p> | <p>Failure of the Contractor/ supplier to maintain such coverage shall not relieve him of any contractual responsibility or obligations for transportation and ocean cargo insurance from port of loading to port of unloading and from warehouse to warehouse in Bangladesh. As Marine insurance as well as Local Insurance shall be from M/S. Sadharan Bima Corporation, 139, Motijheel Commercial Area, Dhaka, Bangladesh and the cost shall be paid by BPDB/Purchaser, the supplier shall promptly furnish 2(two) sets of shipping documents i.e. copies of Bill of Lading / Air way Bill, invoice, Packing list etc, of each and every consignment for insurance purpose directly to the Deputy Director, Finance (Insurance), Bangladesh Power Development Board, Abdul Ghani Road, Dhaka, Bangladesh indicating the Purchase order/ contract No. and date insurance cover note (open Policy) number, Bill of lading and invoice No. and date, invoice C&F value, name of Port loading and unloading, name of goods with number of cases/ packages name of vessel with present age, flag of vessel and type of cargo, well ahead or immediately after shipment to the Consignee for payment of insurance charge by BPDB.</p> <p>If the Contractor /supplier fail to comply with these instructions they shall be held fully responsible for any loss or damage arising out of the non-compliance of these contract conditions.</p> <p>Shipment of goods in any chartered vessel over 15(fifteen) years of age and shipment of goods in the Deck are prohibited.</p> |
| <p>GCC 29.2</p> | <p>a) Bangladesh Income tax and VAT for Income Earned in Bangladesh</p> <p>i) The Supplier shall be entirely liable to pay Income Tax on Contract price both Foreign & Local Currency (including CFR price) at the prevailing rule of the Government of Bangladesh. Such Income Tax will be deducted at source from the Contractor's invoice/bill during payment as per Income Tax Ordinance- 1984.</p> <p>ii) The Supplier shall not be responsible for payment of applicable Value Added Tax (VAT) on the imported permanent materials and equipment's (i.e. CFR portion) of the contract price. BPDB will pay the same VAT during clearing stage at the port. If any VAT applicable on CFR portion at payment stage, BPDB will adjust/pay that amount. But, the applicable VAT on the service portion of the contract price both foreign and local currency shall be paid by the supplier which will be deducted at source from the supplier's invoice/bill during payment.</p> <p>b) Foreign country Taxes and Permits</p> <p>The Supplier shall pay all sales, income and other taxes and duties, tariffs and imports that can be lawfully assessed against the supplier by the Government or any lawful authority of any country other than the people's Republic of Bangladesh which has jurisdiction over the Supplier in connection with this contract and shall pay for all licenses permits and inspection required for the supply including the cost or securing all export licenses and permits for materials, equipment, supplies and personnel exported from that country to Bangladesh.</p> <p>c) Import related duties, taxes, VAT, levies</p> <p>BPDB will be responsible for the payment of import related duties, taxes, VAT, levies and all sort of charges etc. to be liable by the port as well as other Govt. agencies inside Bangladesh for the goods to be imported in accordance with the specification. But BPDB shall not pay the custom duty on any replacement/ additional items.</p> |

GCC 32.1

The inspections and tests shall be :

A. Witnessing of the manufacturing process and tests of the equipment at manufacturer's works including transfer of technical know-how.

During test, transfer of Technology and Technical know-how regarding spares, parameters and testing procedure including familiarization/ testing of equipment to BPDB Engineers is to be performed. The supplier shall bear (applicable for Overseas Factory Only) the round air tickets, hotel accommodations, per diem allowances, internal transportations and out of this pocket expenses @ US\$ 100.00 per person per day for 07 days (excluding travel time) for the witnessing of manufacturing process and tests of concerned equipment at manufacturer's works. The number of such **BPDB Engineers will be 02 (Two) Nos.** Such witness/inspection shall not relieve the supplier from any obligation to supply the goods in accordance with contract document. For foreign manufacturer, Invitation letter from the manufacturer should be submitted to the purchaser at least 02(two) months prior to the schedule date of the witness and tests.

For any reason, if Purchaser's/ Employer's representative(s) cannot attend above mentioned "Witnessing of the manufacturing process and tests of the Goods at manufacturer's works including transfer of technical know-how" program, a Third Party Inspection Company/Agency shall conduct/ witness Pre-shipment Inspections as well as Factory Acceptance Tests as per Contract and relevant standard at the manufacture's Premises with the concurrence of BPDB.

The Third Party Inspector shall submit a comprehensive report to Purchaser with recommendation accompanied with photograph and video clips with date and time of the Equipment/ Materials/ Goods inspected within 7 days after completion of respective inspection/Test. After approval of Third Party Inspection report by BPDB, shipping advice shall be issued to Supplier/ Contractor. No Equipment/ Materials/ Goods shall be shipped without shipping advice.

The inspections/ Tests shall be performed on as-needed basis as per schedule provided by the respective manufacturers

Manufacturer/ Supplier/ Contractor shall bear cost pertaining to third party inspection team/BPDB's representative(s). Manufacturer/ Supplier/ Contractor shall facilitate and provide full support for the Pre-Shipment Inspection/Witnessing of Factory Acceptance Test and transfer of technical know-how to BPDB representative(s). The Manufacturer/ Supplier/ Contractor shall not claim any additional cost in this regard.

The third party inspection company/agency must not be involved in design, procurement, fabrication, construction and installation under this Contract.

BPDB will select any of the following companies/agencies as Third Party Inspector:

1. BUREAU VERITAS,
2. SGS,
3. Black and Veatch,
4. TUV SUD,
5. Lloyd Inspection Agency,
6. Mott MacDonald,
7. Intertek group,

With the approval of BPDB, Contractor/Supplier shall engage Third Party Inspection company/ agency. BPDB reserves the right to revise the above mentioned list.

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| | <p>Third party inspection is applicable for Equipment/ Materials/ Goods manufactured outside in Bangladesh.</p> <p>No goods/equipment/material shall be packed, prepared for shipment / delivery unless it has been approved including Test reports and written instruction has been issued by the Purchaser.</p> <p>B. RANDOM SAMPLE TEST DURING FACTORY INSPECTION AND WITNESS will be held (where required) will be held and detail description is provided in Section 7: Technical Specification.</p> <p>C. ACCEPTANCE REPORT OF GOODS FOR DELIVERY as per Section 7.</p> <p>D. POST-DELIVERY INSPECTION & TESTING will be held in the following manner:</p> <p>a) Post Landing Inspection shall be done after arrival of the goods at Final destination. The post landing inspection shall be intimated to the representative of Supplier. The program of such inspection shall be intimated to the representative of contractor/supplier by BPDB upon arrival of the goods at Final destination store of BPDB. R&I report will be issued after Post Landing Inspection.</p> <p>b) The purchaser has right to inspect, test and where necessary, reject the Goods arrival in purchaser's store shall in no way be limited or waived by reason of the goods having previously been tested and passed by the manufacturer/ supplier.</p> <p>c) During Post Landing Inspection One Supplied Incoming Panel have to connect practically with the existing Outgoing panel from BPDB Store and The supplier have to make necessary arrangements for this Purpose.</p> <p>d) Nothing in this clause shall in any way release the Supplier from any warranty or other obligation under provisions of the contract.</p> <p>e) Detail description is provided in Section 7: Technical Specification</p> |
| GCC 33.3 | <p>The period of validity of the WARRANTY shall be 24(Twenty Four) months from the date of acceptance of Goods. During the warranty period, if any equipment/material is damaged and replaced by the Supplier, fresh warranty period for 24(Twenty Four) months shall be counted for the replaced equipment/material. Total warranty period shall not increase more than 48 (Forty Eight) months in any case.</p> <p>For the purpose of warranty, the place of final destination shall be: Central Store, BPDB, at Tongi, Gazipur as per instruction of Engineer.</p> |
| GCC 33.6 | <p>The Supplier shall correct any defects covered by the Warranty within 90(Ninety) days of being notified by the Purchaser of the occurrence of such defects.</p> |
| GCC 35.1 | <p>The applicable rate for liquidated damages for delay shall be: 0.5(zero point five) percent of the Contract Price of the delayed Goods or unperformed Related services for each week of delay until actual delivery or performance.</p> <p>All Goods and related services shall be considered as delayed and unperformed until the effective date of Acceptance Certificate. Hence Liquidated Damages for delay or Delay Damages until effective date of Acceptance Certificate shall be applicable on the final Contract Price.</p> <p>The maximum amount of liquidated damages shall be <i>Ten (10%) percent of the Contract Price.</i></p> |

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| GCC 47.2(b) | <p>The name of the Adjudicator : shall be selected when necessary</p> <p>The name of the appointing authority of the Adjudicator: President, Institution of Engineers, Bangladesh (IEB)</p> |
| GCC 47.3(b) | <p>Any dispute, Controversy or claim arising out of or relating to this contract or breach, termination or invalidity thereof shall be settled by arbitration in accordance with Arbitration act (Act No 1 of 2001) of Bangladesh as at present in force.</p> <p>Arbitration shall be take place in Dhaka, Bangladesh.</p> |
| GCC 48 (New Clause) | <p>Submission & Approval of Design, Drawing, Specification & GTP/Engineering Data:</p> <p>Design, Drawing, Specification & GTP/ Engineering Data etc, shall be submitted to the Engineer, Director, Design & Inspection-II, BPDB by the Supplier for approval, prior to the manufacturing of the goods. The Supplier shall have to submit 3 (three) sets of the same for approval within 15 (fifteen) days from the date of signing Contract. Only Original copy shall be submitted (photocopy / scanned copy will not be allowed).</p> <p>One copy of Design, Drawing, Specification & GTP/ Engineering Data shall be returned to the Supplier marked “APPROVED” or “APPROVED AS NOTED” or “RETURNED FOR CORRECTION” within 14 (Fourteen) days after receipt from the Supplier and if not returned within 14 (Fourteen) days after receipt by the Engineer, the Suppliers shall notify Engineer of such fact, and if the Design, Drawing, Specification & GTP/ Engineering Data still have been not returned within 7(Seven) days after notice, the Supplier may proceed as if Design, Drawing, Specification & GTP/ Engineering Data have been returned approved. When the Design, Drawing, Specification & GTP/ Engineering Data are returned marked “APPROVED AS NOTED” or “RETURNED FOR CORRECTION” the corrections or changes shall be made and 3 (three) revised copies shall be submitted to the Engineer. One copy of the revised Design, Drawing, Specification & GTP/ Engineering Data will be returned to the Supplier by 7(Seven) days from the receipt of the same with due approval, if re-submitted Design, Drawing, Specification & GTP/ Engineering Data are in line with the earlier comments of the Engineer and satisfy contract specification.</p> |

Section 5. Tender and Contract Forms

| Form | Title |
|------------------|--|
| | i. Tender Forms |
| PG4 – 1 | Tender Submission Letter |
| PG4 – 2 | Tenderer Information Sheet |
| PG4 – 3A,3B & 3C | Price Schedule for Goods |
| PG4 – 3D | Price Schedule for Related Services |
| PG4 – 4 | Specifications Submission and Compliance Sheet |
| PG4 – 5 | Manufacturer’s Authorisation Letter |
| PG4 – 6 | Bank Guarantee for Tender Security |
| PG4 – 6A | Bank’s Commitment for Line of Credit <i>(when this option is chosen)</i> |
| PG4-11 | Deviation List |
| | ii. Contract Forms |
| PG4 – 7 | Notification of Award |
| PG4 – 8 | Contract Agreement |
| PG4 – 9 | Bank Guarantee for Performance Security |
| PG4 – 10 | Bank Guarantee for Advance Payment |
| PG4-12 | Warranty Certificate |

Forms PG4-1 to PG4-6, PG4-11 comprises part of the Tender and should be completed as stated in ITT Clause 21.

Forms PG4-7 to PG4-10, PG4-12 comprises part of the Contract as stated in GCC Clause 5.

Tender Submission Letter (Form PG4 – 1A)

(To be submitted with technical Proposal)

[This letter shall be completed and signed by the Authorised Signatory preferably on the Letter-Head pad of the Tenderer].

| | |
|---|----------------------------------|
| To: <i>[Contact Person]</i> <i>[Name of Purchaser]</i> <i>[Address of Purchaser]</i> | Date: |
| Invitation for Tender No: | <i>[indicate IFT No]</i> |
| Tender Package No: | <i>[indicate Package No]</i> |
| Lot No: | <i>[indicate number of Lots]</i> |

We, the undersigned, offer to supply in conformity with the Tender Document the following Goods and related Services:

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 27.2) 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 *bank guarantee* in the amount stated in the Tender Data Sheet (ITT Clause 29) and valid for a period of 28 days beyond the Tender validity date;
- c) if our Tender is accepted, we commit to furnishing a Performance Security in the amount stated in the Tender Data Sheet (ITT Sub-Clause 63.2) in the form stated in Tender Data Sheet (ITT Sub-Clause 64.1) and valid for a period of 28 days beyond the date of completion of our performance obligations;
- d) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*;

including Addendum to Tender Documents 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 have been issued]*;
- e) we, including as applicable, 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

- 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 5.3];
(delete one of the above as appropriate)
- h) we, 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 5.5;
- i) we, including as applicable subcontractor 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 5.6;
- j) furthermore, we are aware of ITT Sub Clause 4.3 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 Supply, in accordance with ITT Sub-Clause 16.1 to the following Subcontractor(s);

| Nature of the Supply or related service | Name and address of Subcontractor |
|---|-----------------------------------|
| | |
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| | |

- l) we, confirm that we do not have a record of poor performance, such as abandoning the Supply, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Sub-Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information Sheet(Form PG4-2);
- m) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall become a binding Contract between us, until a formal Contract is prepared and executed;
- n) we understand that you reserve the right to accept or reject any Tender, to cancel the Tender proceedings, or to reject all Tenders, without incurring any liability to Tenderers, in accordance with ITT Clause 58.1.

Signature:

[insert signature of authorised representative of the Tenderer]

Name:

[insert full name of signatory with National ID]

In the capacity of:

[insert designation of signatory]

Duly authorised to sign the Tender for and on behalf of the Tenderer

[If there is more than one (1) signatory add other boxes and sign accordingly].

Attachment 1: Written confirmation authorising the above signatory(ies) to commit the Tenderer, in accordance with ITT Sub-Clause 34.3;

Tender Submission Letter (Form PG4 – 1B)

(To be submitted with Financial Proposal)

[This letter shall be completed and signed by the Authorised Signatory preferably on the Letter-Head pad of the Tenderer].

| | |
|--|---------------------------|
| To: [Contact Person] [Name of Purchaser] [Address of Purchaser] | Date: |
| Invitation for Tender No: | [indicate IFT No] |
| Tender Package No: | [indicate Package No] |
| Lot No: | [indicate number of Lots] |

We, the undersigned, offer to supply in conformity with the Tender Document the following Goods and related Services:

In accordance with ITT Clauses 22 and 23, the following prices and discounts apply to our Tender:

The Tender Price is: *Taka [state amount in figures]*
(ITT Sub-Clause 23.1) *and Taka[state amount in words]*

Mandatory Spare parts Price *Taka [state amount in figures]*
(If economic Factor is applicable) *and Taka[state amount in words]*
(ITT Sub-Clause 52.2 (f) & 52.5 (b))

The unconditional discount for being *Taka [state amount in figures]*
awarded more than one lot in this *and Taka[state amount in words]*
package is:
(ITT Sub-Clause 23.8)

The methodology for Application of the *[state the methodology]*
discount is:
(ITT Sub-Clause 23.9)

The advance payment is: *[state the amount based on*
(GCC Sub-Clause 27.1) *percentage of the Tender Price]*

and we shall accordingly submit an Advance Payment Guarantee in the format shown in Form PG4 - 10.

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

- o) our Tender shall be valid for the period stated in the Tender Data Sheet (ITT Sub-Clause 27.2) and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- p) a Tender Security is attached in the form of a *bank guarantee* in the amount stated in the Tender Data Sheet (ITT Clause 29) and valid for a period of 28 days beyond the

Tender validity date;

q) if our Tender is accepted, we commit to furnishing a Performance Security in the amount stated in the Tender Data Sheet (ITT Sub-Clause 63.2) in the form stated in Tender Data Sheet (ITT Sub-Clause 64.1) and valid for a period of 28 days beyond the date of completion of our performance obligations;

r) we have examined and have no reservations to the Tender Document, issued by you on *[insert date]*;

including Addendum to Tender Documents 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 have been issued]*;

s) we, including as applicable, 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;

t) we are submitting this Tender as a sole Tenderer

u) 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 5.3];

(delete one of the above as appropriate)

v) we, 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 5.5;

w) we, including as applicable subcontractor 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 5.6;

x) furthermore, we are aware of ITT Sub Clause 4.3 concerning such practices and pledge not to indulge in such practices in competing for or in executing the Contract;

y) we intend to subcontract an activity or part of the Supply, in accordance with ITT Sub-Clause 16.1 to the following Subcontractor(s);

| Nature of the Supply or related service | Name and address of Subcontractor |
|---|-----------------------------------|
| | |
| | |
| | |
| | |

- z) we confirm that we do not have a record of poor performance, such as abandoning the Supply, not properly completing contracts, inordinate delays, or financial failure as stated in ITT Sub-Clause 5.8, and that we do not have, or have had, any litigation against us, other than that stated in the Tenderer Information Sheet(Form PG4-2);
- aa) we are not participating as Tenderers in more than one Tender in this Tendering process. We understand that your written Notification of Award shall become a binding Contract between us, until a formal Contract is prepared and executed;
- bb) we understand that you reserve the right to accept or reject any Tender, to cancel the Tender proceedings, or to reject all Tenders, without incurring any liability to Tenderers, in accordance with ITT Clause 58.1.

Signature:

| |
|--|
| <i>[insert signature of authorised representative of the Tenderer]</i> |
|--|

Name:

| |
|---|
| <i>[insert full name of signatory with National ID]</i> |
|---|

In the capacity of:

| |
|--|
| <i>[insert designation of signatory]</i> |
|--|

Duly authorised to sign the Tender for and on behalf of the Tenderer

[If there is more than one (1) signatory add other boxes and sign accordingly].

Attachment 1: Written confirmation authorising the above signatory(ies) to commit the Tenderer, in accordance with ITT Sub-Clause 34.3;

Tenderer Information Sheet (Form PG4-2)

[The Tenderer shall fill in this Form in accordance with the instructions indicated below. No alterations to its format shall be permitted and no substitutions shall be accepted]

Invitation for Tender No: [Indicate IFT No] Date [Insert date of Tender Submission]
Tender Package No: [Indicate Package No]

A. Individual Tenderers

| | | |
|--|--|--|
| 1. Eligibility Information of the Tenderer [ITT Clauses 5 & 21] | | |
| 1.1 | Tenderer's Legal Name: | |
| 1.2 | Tenderer's legal address in Country of Registration | |
| 1.4 | Tenderer's Year of Registration | |
| 1.5 | Tenderer's Authorised Representative Information | |
| | Name | |
| | National ID number | |
| | Address | |
| | Telephone / Fax Numbers | |
| | e-mail address | |
| 1.6 | Attached are copies of original documents of : [check box(es) of the attached original documents] | |
| | <input type="checkbox"/> Articles of Incorporation or Registration of firm named in 1.1, in accordance with ITT sub-Clause 5.1 and 5.2] | |
| | <input type="checkbox"/> In case of government owned entity, documents establishing legal and financial autonomy and compliance with commercial law, in accordance with ITT Sub-Clause 5.3 | |
| | <input type="checkbox"/> An affidavit confirming the legal capacity stating that there are no existing orders of any judicial court that prevents either the tenderer or employees of a tenderer entering into or signing a Contract with the Purchaser in accordance with ITT clause 5 | |
| | <input type="checkbox"/> An affidavit confirming that the tenderer is not insolvent, in receivership or not bankrupt or not in the process of bankruptcy, not temporarily barred from undertaking their business for financial reasons and shall not be the subject of legal proceedings for any of the foregoing in accordance with ITT Clause 5. | |

| | |
|---|--|
| <input type="checkbox"/> <i>A certificate issued by the competent authority of Bangladesh stating that the Tenderer is a Tax payer having valid Tax identification Number (TIN) and VAT registration number or in lieu any other document acceptable to the Purchaser demonstrating that the Tenderer is a genuine Tax payer and has a VAT registration number as a proof of fulfillment of taxation obligations in accordance with ITT Clause 5.</i> | |
| <input type="checkbox"/> <i>Documentary evidence demonstrating that they are enrolled in the relevant professional or trade organizations registered in Bangladesh in accordance with ITT Clause 5.</i> | |
| 2. Litigation History: <i>[Number of arbitration awards against the tenderer over the period in accordance the ITT Clause 13.1] if no [state "None"]</i> | |
| 3. Qualification Information of the Tenderer: | |
| 3.1 | <i>Number of years of overall experience of the Tenderer in the supply of goods and related services as stated under ITT Sub-Clause 14.1(a):</i> |
| 3.2 | <i>Number of completed supply contracts in the supply of similar goods and related services of required value within the period mentioned in TDS as stated under ITT Sub-Clause 14.1(b):</i> <ul style="list-style-type: none"> ▪ <i>Number of Contracts:</i> ▪ <i>Value of the Contracts:</i> ▪ <i>Period of the Contract:</i> |
| 3.3 | <i>The supply and/or production capacity of Goods, if applicable, as stated under ITT Sub-Clause 14.(c)</i> |
| 3.4 | <i>Available liquid assets or working capital or credit facility in accordance with ITT Clause 15.1(a)</i> |

Annexure: 4-1 Tenderer's Completed Contracts.

Annexure: 4-2 Tenderer's Ongoing Contract(s).

Annexure: 4-3 Assessment for Manufacturer's Compliance to Production Capacity.

Annexure: 4-4 Assessment for Tenderer's Compliance to Financial Resources Availability.

Annexure: 4-1

Tenderer's Completed Contracts (within last five years):

| Sl. No. | Name, Address, Phone No., Fax No. & domain E-mail of the Employer | Contract No. & Date | Description of Supply with quantity | Contract Value | Date of completion of Supply |
|---------|---|---------------------|-------------------------------------|----------------|------------------------------|
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| | | | | | |

I/We hereby declare that, above mentioned information* is correct and there are no more completed similar contracts in Government entities under power sector of Bangladesh other than those mentioned in the above table.

Signatory Name:
Designation:

Seal & Signature
of the Tenderer

***Note:** This information shall have to be mentioned in the Letterhead pad of the Tenderer duly seal & signed *along with supporting document*. **Failure to submit or misrepresentation of the detail information for any completed similar contract, Tender shall be rejected without further evaluation.**

Annexure: 4-2

Tenderer's Ongoing Contract(s):

| Sl. No. | Name, Address, Phone No., Fax No. & domain E-mail of the Employer | Contract /NOA No. & Date | Description of Supply as per Contract | | | Already supplied (if any) | | Remaining items to be Supplied | | Date of completion of Supply | |
|--|---|--------------------------|---------------------------------------|----------|-------|---------------------------|-------|--------------------------------|-------|------------------------------|--------|
| | | | Name of the Item | Quantity | Value | Quantity | Value | Quantity | Value | As per Contract | Target |
| (1) | (2) | (3) | (4) | | | (5) | | 6 = (4-5) | | (7) | |
| Similar contract(s) | | | | | | | | | | | |
| 1. | | | | | | | | | | | |
| 2. | | | | | | | | | | | |
| 3. | | | | | | | | | | | |
| 4. | | | | | | | | | | | |
| | | | | | | | | | | | |
| Other contract(s) (if applicable) | | | | | | | | | | | |
| 1. | | | | | | | | | | | |
| 2. | | | | | | | | | | | |
| 3. | | | | | | | | | | | |
| 4. | | | | | | | | | | | |
| | | | | | | | | | | | |

I/We hereby declare that, above mentioned information* is correct and there are no more ongoing contracts in Government entities under power sector of Bangladesh other than those mentioned in the above table.

Signatory Name:
Designation:

Seal & Signature
of the Tenderer

***Note:** This information shall have to be mentioned in the Letterhead pad of the Tenderer duly seal & signed *along with supporting document*. **Failure to submit or misrepresentation of the detail information for any ongoing contract, Tender shall be rejected without further evaluation.**

Annexure: 4-3

Assessment for Manufacturer's Compliance to Production Capacity:

| Ongoing Similar Contracts Commitments (Table-3A) | | | | | |
|--|--|-------------------------------------|--|--|--|
| Sl. No. | Name, Address, Phone No., Fax No. & domain E-mail of the Employer | Contract /NOA No. & Date | Outstanding Supply quantity (X) ^a | Remaining Contract Period in months (Y) ^b | Monthly Production Requirement (X / Y) |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| | | | | | |
| Total Monthly Production Requirement for Ongoing Similar Contract(s) Commitments | | | | | |

^a Remaining outstanding supply quantity for ongoing similar contract(s) will be forwarded from **Annexure: 4-2** and calculated from 28 days prior to the Tender submission deadline of this Tender.

^b Remaining contract period to be calculated from 28 days prior to the Tender submission deadline of this Tender.

| Assessment of Production Capacity (Table-3B) | | | | |
|--|---|--|---|--|
| Production capacity of Goods per month from Tenderer Information Sheet (Form PG4-2), Sl. No. 3.3 (A) | Total Monthly Production Requirement for Ongoing Similar Contracts Commitments from Table- 3A (B) | Remaining Net Production Capacity per month C= (A-B) | Requirement of the minimum production capacity of Goods per month for this Tender (D) | Results: [C must be greater than or equal to D] (E*) |
| | | | 1/4 of the Tendered Quantity | |

Note: * "E" Must be satisfied to qualify the Tenderer.

Annexure: 4-4

Assessment for Tenderer's Compliance to Financial Resources Availability:

| Ongoing Contracts Commitments (Table-4A) | | | | | |
|--|--|-------------------------------------|---|--|---|
| Sl. No. | Name, Address, Phone No., Fax No. & domain E-mail of the Employer | Contract /NOA No. & Date | Outstanding Contract Value (X) ^a | Remaining Contract Period in months (Y) ^b | Monthly Financial Resources Requirement (X / Y) |
| 1. | | | | | |
| 2. | | | | | |
| 3. | | | | | |
| 4. | | | | | |
| | | | | | |
| Total Monthly Financial Requirement for Ongoing Contract(s) Commitments | | | | | |

^a Remaining outstanding supply value for ongoing contract(s) will be forwarded from **Annexure 4-2** and calculated from 28 days prior to the Tender submission deadline of this Tender.

^b Remaining contract period to be calculated from 28 days prior to the Tender submission deadline of this Tender.

| Assessment of Financial Resources Availability (Table-4B) | | | | | |
|--|---|--|--|--|---|
| Available Financial Resources from Tenderer Information Sheet (Form PG4-2), Sl. No. 3.4 (A) | Monthly Financial Resources Requirement for Ongoing Contracts Commitments from Table- 4A (B) | Financial Requirement of Ongoing Contracts Commitments for 2(two) months C= (2*B) | Net amount Available Financial Resources D= (A-C) | Financial Requirement for this Tender (E) | Results: [D must be greater than or equal to E] (F*) |
| | | | | [100% of the quoted price] | |

Note: * "E" Must be satisfied to qualify the Tenderer.

Price Schedule for Goods (Form PG4-3A)
[Group A Tenders: Goods Manufactured in Bangladesh]

| | | | |
|----------------------------------|--------|-----------------------------|--|
| Invitation for Tender No: | | Date: | |
| Tender Package No: | GRF-40 | Package Description: | Procurement of Supply of 11kV Incoming Switchgear Panel (Tongi Store) |
| Tender Lot No: | N/A | Lot Description: | N/A |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|---------------------|----------|-------------------------------------|--|--|---|---|---|--|
| Line Item No . | Description of Item | Unit of Measurement | Quantity | Unit price EXW [FC or Taka.] | EXW price per Line Item (Col. 4 × 5) [FC or Taka.] | Inland transportation and other local costs for the delivery of the Goods to their final destination [Taka] | Cost of local labour, raw materials and components from with origin in Bangladesh | VAT Payable on account of Supplier if the Contract is awarded [Taka] | Total Price per line item (Col. 6+7) FC Taka | |
| 1 | 11kV Incoming Switchgear Panel (as per Technical Specification in Section -7 & 8) | Nos. | 20 | | | | | | | |
| Note : Price offered in foreign currency (FC) & Bangladesh Taka | | | | | | | Total Price for Lot | | | |
| Point of Delivery as per Schedule of Requirement: Central Store, BPDB, at Tongi, Gazipur. | | | | | | Period of Delivery as per Schedule of Requirement: 180 days from the L/C opening. | | | | |

| | | |
|--|--|-------------------------------------|
| Name: | <i>[insert full name of signatory]</i> | <i>Signature with Date and Seal</i> |
| In the capacity of: | <i>[insert designation of signatory]</i> | <i>[Sign]</i> |
| Duly authorized to sign the Tender for and on behalf of the Tenderer | | |

Schedule for Goods (Form PG4-3B)

[Group B Tenders: Goods Manufactured outside Bangladesh, to be imported]

| | | | |
|----------------------------------|--------|-----------------------------|--|
| Invitation for Tender No: | | Date: | |
| Tender Package No: | GRF-40 | Package Description: | Procurement of Supply of 11kV Incoming Switchgear Panel (Tongi Store) |
| Tender Lot No: | N/A | Lot Description: | N/A |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | |
|---|---|-------------------|---------------------|----------|--|--|--|---|---------------------------|--------------|
| Line Item No . | Description of Item | Country Of Origin | Unit of Measurement | Quantity | Unit price CFR(Cost plus Fright) [insert the port of destination] [FC] | CFR price per Line Item (Col. 5 × 6) [FC] | Inland transportation, Port Handling Charge and other local costs for the delivery of the Goods to their final destination [Taka] | VAT Payable on account of Supplier if the Contract is awarded [Taka] | Total Price per line item | |
| | | | | | | | | | FC (Col.7) | Taka (Col.8) |
| 1 | 11kV Incoming Switchgear Panel (as per Technical Specification in Section -7 & 8) | | Nos. | 20 | | | | | | |
| <i>Note : Price offered in foreign currency (FC) & Bangladesh Taka</i> | | | | | | | Total Price for Lot | | | |
| Point of Delivery as per Schedule of Requirement Central Store, BPDB, at Tongi, Gazipur. | | | | | | Period of Delivery as per Schedule of Requirement: 180 days from the L/C opening. | | | | |

[Note: The Purchaser may also use other INCOTERMs, if deemed necessary, In such case Form PG4-3B, will require to be customized by the Purchaser]

| | | |
|--|--|-------------------------------------|
| Name: | <i>[insert full name of signatory]</i> | <i>Signature with Date and Seal</i> |
| In the capacity of: | <i>[insert designation of signatory]</i> | <i>[Sign]</i> |
| Duly authorised to sign the Tender for and on behalf of the Tenderer | | |

Price Schedule for Goods (Form PG4-3C): **Not Applicable**

[Group B Tenders: Goods Manufactured outside Bangladesh, already imported]

| | | | |
|---------------------------|--|----------------------|--|
| Invitation for Tender No: | | Date: | |
| Tender Package No: | | Package Description: | |
| Tender Lot No: | | Lot Description: | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | |
|---|---------------------|-------------------|---------------------|----------|---|---|--|---|---|--|--|--|
| Line Item No . | Description of Item | Country of Origin | Unit of Measurement | Quantity | Unit price Including Custom Duties, import VAT & other import taxes already paid [Taka] | Custom Duties, import VAT & other import taxes already paid per unit [Taka] | Unit Price per line item net of Custom Duties, import VAT & other import taxes already paid [Taka] (Col. 6 - Col.7) | Price per line item net of Custom Duties, import VAT & other import taxes already paid [Taka] (Col. 5X Col. 8) | Inland transportation and other local costs for the delivery of the Goods to their final destination [Taka] | VAT Payable on account of Supplier if the Contract is awarded [Taka] | Total Price per line item (Col.9+ Col.10) [Taka] | |
| | | | | | | | | | | | | |
| Note : Price offered in Bangladesh Taka | | | | | | | | Total Price for Lot | | | | |
| Point of Delivery as per Schedule of Requirement: | | | | | | | Period of Delivery as per Schedule of Requirement: | | | | | |

| | | |
|--|--|------------------------------|
| Name: | <i>[insert full name of signatory]</i> | Signature with Date and Seal |
| In the capacity of: | <i>[insert designation of signatory]</i> | <i>[Sign]</i> |
| Duly authorised to sign the Tender for and on behalf of the Tenderer | | |

Price and Completion Schedule - Related Services (Form PG4-3D)

| | | | |
|----------------------------------|--|-----------------------------|--|
| Invitation for Tender No: | | Date: | |
| Tender Package No: | | Package Description: | Supply of 11kV Incoming Switchgear Panel (Tongi Store) |
| Tender Lot No: | | Lot Description: | |

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | |
|--|--|-------------------|---------------------|----------|---|---|---|---|------|
| Service No. | Description of Services (excludes inland transportation and other services required in Bangladesh to convey the goods to their final destination) | Country of Origin | Unit of Measurement | Quantity | Unit price of service [FC] or [Taka] | Price per line item of service (Col. 5 X Col. 6) [FC] or [Taka] | VAT Payable on account of Supplier if the Contract is awarded [Taka] | Total Price per line item of service (Col. 7) | |
| | | | | | | | | FC | Taka |
| 1 | Pre-shipment inspection and/or Witnessing of the manufacturing process and tests of the 11kV AIS Panel as per Section 7 and GCC Clause no. 32.1 | | Lot | 1 | | | | | |
| <i>Note Price offered in foreign currency (FC) & Bangladesh Taka</i> | | | | | | Total Price: | | | |
| Point of Delivery: At Manufacturer's premises | | | | | Period of Delivery as per Schedule of Requirement: | | | | |

| | | |
|--|--|-------------------------------------|
| Name: | <i>[insert full name of signatory]</i> | <i>Signature with Date and Seal</i> |
| In the capacity of: | <i>[insert designation of signatory]</i> | <i>[Sign]</i> |
| Duly authorized to sign the Tender for and on behalf of the Tenderer | | |

Specifications Submission and Compliance Sheet (Form PG4-4)

Invitation for Tender No:

Date:

Tender Package No:

Package Description: *[enter description as specified in Section 6]*

Tender Lot No:

Lot Description: *[enter description as specified in Section 6]*

| Item No. | Name of Goods or Related Service | Country of Origin | Make and Model (when applicable) | Full Technical Specifications and Standards |
|----------|----------------------------------|-------------------|----------------------------------|---|
| 1 | 2 | 3 | 4 | 5 |
| | FOR GOODS | | | Note 1 |
| 1 | 11kV Incoming Switchgear Panel | | | |
| | | | | |
| | FOR RELATED SERVICES | | | |
| | | | | |
| | | | | |

[The Tenderer should complete all the columns as required]

Signature:

| |
|--|
| <i>[insert signature of authorised representative of the Tenderer]</i> |
|--|

Name:

| |
|--|
| <i>[insert full name of signatory]</i> |
|--|

In the capacity of:

| |
|--|
| <i>[insert designation of signatory]</i> |
|--|

Duly authorised to sign the Tender for and on behalf of the Tenderer

Manufacturer's Authorisation Letter (Form PG4 - 5)

[The Tenderer shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. The Tenderer shall include it in its tender, if so indicated in the TDS as stated under ITT Sub-Clause 26.1(b)]

| | |
|---------------------------------------|-------|
| Invitation for Tender No: | Date: |
| Tender Package No: | |
| Tender Lot No: | |
| To: Name and address of Purchaser] | |

WHEREAS

We *[insert complete name of Manufacturer]*,

who are official manufacturers of *[insert type of goods manufactured]*, having factories at *[insert full address of Manufacturer's factories]*, do hereby

authorize *[insert complete name of Tenderer]* to supply the following Goods, manufactured by us *[insert name and or brief description of the Goods]*.

We hereby extend our full guarantee and warranty as stated under GCC Clause 33 of the General Conditions of Contract, with respect to the Goods offered by the above Tenderer.

Signed: *[insert signature(s) of authorized representative(s) of the Manufacturer]*

Name: *[insert complete name(s) of authorized representative(s) of the Manufacturer]*

Address: *[insert full address including Fax and domain e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

Bank Guarantee for Tender Security (Form PG4 – 6)

[this is the format for the Tender Security to be issued by a scheduled bank of Bangladesh as stated under ITT Clauses 29 and 30]

Invitation for Tender No:

Date:

Tender Package No:

Tender Lot No:

To:

[Name and address of Purchaser]

TENDER GUARANTEE NO:

We have been informed that *[insert name of Tenderer]* (hereinafter called “the Tenderer”) intends to submit to you its Tender dated *[insert date of Tender]* (hereinafter called “the Tender”) for the supply of *[description of goods and related services]* under the above Invitation for Tenders (hereinafter called “the IFT”).

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

At the request of the Tenderer, we *[insert name of bank]* hereby irrevocably 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 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 Instructions to Tenderers (ITT) ; or
- c. failed to furnish Performance Security within the period as 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 in accordance with the ITT; or

This guarantee will expire:

- (a) if the Tenderer is the successful Tenderer, upon our receipt of a copies of the contract signed by the Tenderer and 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

Seal

Letter of Commitment for Bank's Undertaking for Line of Credit (Form PG4-6A)

[This is the format for the Credit Line to be issued by any internationally reputable bank in accordance with ITT Clause 26.1(d)]

Memo No.:

Date:

Invitation for Tender No:

Date:

Tender Package No:

Lot No (*when applicable*):

To:

[Name and address of the Procuring Entity]

CREDIT COMMITMENT 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 supply of Goods of *[description of Goods and related services]* 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 the delivery of Goods and related services viz. *[insert name of supply]*, for an amount not less than *[name of currency(s)] [Amount in figure] (in words)* for the sole purpose of the supply of Goods and related services under the above Contract. This Revolving Line of Credit will be maintained by us until issuance of "**Acceptance Certificate**" by the Procuring Entity.

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

Name and Signature

Name and Signature

Notification of Award (Form PG4 - 7)

Contract No:

Date:

To:

[Name of Contractor]

This is to notify you that your Tender dated *[insert date]* for the supply of Goods and related Services for *[name of 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 Purchaser]*.

You are thus requested to take following actions:

- i. accept in writing the Notification of Award within seven (7) working days of its issuance pursuant to ITT Sub-Clause 62.3
- ii. furnish a Performance Security in the specified format and in the amount of Tk *[state amount in figures and words]* ,within Twenty-eight (28) days from issue of this Notification of Award but not later than *[specify date]*, in accordance with ITT Clause 64.2
- 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 67.2

You may proceed with the execution of the supply of Goods and related Services 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 Purchaser]*

Date:

Contract Agreement (Form PG4 - 8)

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

WHEREAS the Purchaser invited Tenders for certain goods and related services, viz, *[brief description of goods and related services]* and has accepted a Tender by the Supplier for the supply of those goods and related services 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 following documents forming the Contract shall be in the following order of precedence, namely :
 - (a) the signed Form of Contract Agreement;
 - (b) the Notification of Award
 - (c) The Tender and the appendices to the Tender
 - (d) Particular Conditions of Contract;
 - (e) General Conditions of Contract;
 - (f) Technical Specifications;
 - (g) Drawings;
 - (h) Price Schedules and Schedule of Requirements and;
 - (i) other document including correspondences listed in the PCC forming part of the Contract
3. In consideration of the payments to be made by the Purchaser to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Purchaser to provide the goods and related services and to remedy any defects therein in conformity in all respects with the provisions of the Contract.
4. The Purchaser hereby covenants to pay the Supplier in consideration of the provision of the goods and related 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.

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 Purchaser:

For the Supplier:

Signature

Print Name

Title

In the presence
of Name
Address

Bank Guarantee for Performance Security (Form PG4 - 9)

[This is the format for the Performance Security to be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable in accordance with ITT Sub-Clause 64.1 pursuant to Rule 27(4) of the Public Procurement Rules, 2008.]

Contract No:

Date:

To:

[Name and address of Purchaser]

PERFORMANCE GUARANTEE No: *[insert Performance Guarantee number]*

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your conditions, Contracts must be supported by a performance guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably 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 Supplier 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.

[Signatures of authorized representatives of the bank]

Seal

Signature

Bank Guarantee for Advance Payment (Form PG4 – 10)-N/A

[this is the format for the Advance Payment Security to be issued by an internationally reputable bank and it shall have correspondent bank located in Bangladesh, to make it enforceable in accordance with GCC Clause 27.1]

Contract No:

Date:

To:

[Name and address of Purchaser]

ADVANCE PAYMENT GUARANTEE No:

We have been informed that *[name of supplier]* (hereinafter called “the Supplier”) has undertaken, pursuant to Contract No *[reference number of Contract]* dated *[date of Contract]* (hereinafter called “the Contract”) for the supply of *[description of goods and related services]* under the Contract.

Furthermore, we understand that, according to your Particular Conditions of Contract Clause 26.1, Advance Payment(s) on Contracts must be supported by a bank guarantee.

At the request of the Supplier, we *[name of bank]* hereby irrevocably 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 Supplier 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.

We further agree that no change, addition or other modification of the terms of the Contract to be performed, or of any of the Contract documents which may be made between the Purchaser and the Supplier, shall in any way release us from any liability under this guarantee, and we hereby waive notice of any such change, addition or modification.

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.

[Signatures of authorized representatives of the bank]

| | |
|------------------|------|
| Signature | Seal |
|------------------|------|

Deviation List (Form PG4 - 11)

[If Tenderer has any reservation on terms and conditions, Tenderer has to mention his reservations in Deviation list]

| Sl. No. | Reference No./ Clause No. | Proposed Deviation | Remarks |
|---------|---------------------------|--------------------|---------|
| | | | |
| | | | |

[Add rows if necessary]

Signature: *[insert signature of authorised representative of the Tenderer]*

Name: *[insert full name of signatory]*

In the capacity of: *[insert designation of signatory]*

Duly authorised to sign the Tender for and on behalf of the Tenderer

Warranty Certificate (Form PG4 - 12)

[The Tenderer shall require to fill in this Form in accordance with the instructions indicated. This Certificate should be on the official pad of the Tenderer and should be signed by a person with the proper authority to sign documents.]

[The Tenderer shall include it in its Tender, if so indicated in the TDS as stated under ITT Sub Clause 21.1 (q)]

| | |
|---|-------|
| Invitation for Tender No: | Date: |
| Tender Package No: | |
| Tender Lot No(<i>when applicable</i>): | |
| To: [Name and address of Procuring Entity] | |

WHEREAS

We *[insert complete name of Tenderer]*,

who are authorized Supplier of *[insert type of goods to be Supplied]*, having registered office at *[insert full address of Tenderer's registered office]* do hereby warrants that all the Goods *[insert name and brief description of the Goods]* will be supplied by us and extend our full guarantee and warranty as stated under GCC Clause 33 of the General Conditions of Contract with respect to the Goods offered by us under this contract.

Signed: *[insert signature(s) of authorized representative(s) of the Tenderer]*

Name: *[insert complete name(s) of authorized representative(s) of the Tenderer]*

Address: *[insert full address including Fax and e-mail]*

Title: *[insert title]*

Date: *[insert date of signing]*

Section 6. Schedule of Requirements

Invitation for Tender No:

Date

Tender Package No: **GRF-40**

A. List of Goods and Delivery Schedule

When completing Form PG4-3A, 3B & 3C the Tenderer shall quote prices and contract delivery dates for each lot separately, as specified in the List of Goods and Delivery Schedule.

| Item No. | Description of Item | Unit of Measurement | Quantity | Point of Delivery [Final (Project Site) Destination as specified in TDS] | Delivery Date Required (in weeks) | |
|--|--------------------------------|---------------------|----------|--|--|----------------------|
| | | | | | Earliest Delivery Date | Latest Delivery Date |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| 1 | 11kV Incoming Switchgear Panel | Nos. | 20 | Central Store, BPDB, at Tongi, Gazipur. | | |
| Purchaser's Option for delivery terms is: | | | | | 180 Days from the date of L/C opening | |
| Lot No 1: | | | | | | |
| <i>[add as many rows and details as there are individual items in the Lot]</i> | | | | | | |
| | | | | | | |
| Lot No 2: | | | | | | |
| <i>[add as many rows and details as there are individual items in the Lot]</i> | | | | | | |

*Note: This Section provides the List of Goods and Delivery Schedule and List of Related Services and Completion Schedule and must be carefully prepared by a Purchaser for each object of procurement
The Purchaser may include the delivery of a limited supply of fast-moving and/or hard-to-find spare parts in this Schedule of Requirement. This is to ensure the continued use or operation of the equipment.*

B. List of Related Services and Completion Schedule

When completing Form PG4-3D, the Tenderer shall quote prices and Completion date for services for each item against each lot

| Item No. | Description of Item | Unit of Measurement | Quantity | Place where Services shall be performed | Final Completion Date(s) of Services |
|--|--|---------------------|----------|---|--------------------------------------|
| 1 | 2 | 3 | 4 | 5 | 6 |
| | Pre-shipment inspection and/or Witnessing of the manufacturing process and tests of the 11kV AIS Panel as per Section 7 and GCC Clause no. 32.1 | LS | 1 | At Manufacturer's premises | |
| [enter description] | | | | | |
| [add as many rows and details as there are individual items in the Lot] | | | | | |
| | | | | | |

Notes on Related Services

The Purchaser shall clearly specify the related services/Incidental services, other than inland transportation and other services required to convey the Goods to their final destination, in this Schedule of requirement. In particular, these services may refer to any of the following but not limited to:

- (a) performance or supervision of on-site assembly and/or start-up of the supplied Goods;
- (b) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time as specified, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (c) training of the Purchaser's personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance, and/or repair of the supplied Goods

SECTION: 7

TECHNICAL SPECIFICATION
OF
11kV Incoming AIS Panel

TECHNICAL SPECIFICATIONS & REQUIREMENTS OF 11kV VACUUM CIRCUIT BREAKERS WITH PROTECTION, CONTROL & METERING CUBICLES

7.01. SCOPE OF WORKS

This section covers the specification, manufacture, design, testing and delivery of indoor, air insulated metalclad 11kV switchgear cubicle/ panel consisting of, 11kV Vacuum Circuit Breakers with Protection, Control & Metering panels to the Stores of BPDB, Bangladesh.

7.02. CLIMATE DATA

Main climate data that must be taken into account for the goods will be the followings:-

| | | |
|---|---|--|
| Climate | : | Tropical, intense sunshine, heavy rain |
| Maximum Temperature | : | 50° C |
| Minimum Temperature | : | 3° C |
| Average daily Temperature | : | 30° C |
| Average isokeraunic level | : | 80 days/ year |
| Relative humidity | : | 50-100% |
| Average annual rain fall | : | 3454 mm |
| Maximum wind velocity | : | 200 km/ hour |
| Altitude | : | Sea level to 300 meters |
| Atmospherically, Mechanical and Chemical impurities | : | Moderately polluted |

The information is given solely as a guide for Tenders and no responsibility for its, accuracy will be accepted not will any claim based on the above be entertained.

Equipment supplied under this Contract will be installed in tropical locations that can be considered hostile to its proper operation. Particular problems that shall receive special consideration relate to operation in a hot humid environment and presence of the insects and vermin.

7.03 SYSTEM PARTICULARS

| SL. NO. | i) System Characteristics | VOLTAGE LEVEL | | | |
|---------|--|---------------|-------|-------|-------|
| 1. | Normal System Voltage, kV | 230 | 132 | 33 | 11 |
| 3. | Maximum System Voltage, kV | 245 | 145 | 36 | 12 |
| 4. | System Frequency, Hz | 50 | 50 | 50 | 50 |
| 5. | Phase Rotation (Anti-Clock wise) | RST | RST | RST | RST |
| 6. | Type of System Grounding | Solid | Solid | Solid | Solid |
| 7. | Rated Fault Level (3-Phase Symmetrical), MVA, 3 sec. | 16300 | 6000 | 1500 | 500 |
| 8. | Basic Insulation Level, kV | 750 | 650 | 170 | 75 |

High voltage current carrying equipment should be capable of carrying the three phase fault levels for a period of three second.

7.1.5.1 GENERAL

One panel structure and enclosure assembly with supports, Busbar compartments, Circuit breaker compartment, LV compartment, V.T Compartment, Cable termination compartment, earthing, Mechanical operating/ Indicating devices, Interlocks, LV compartments with all wiring MCBs, Fuses, Links, Auxiliary relays, Supervision relays, Heater, Humidistat, Indications lamp, control and selector switches, Local and remote switches, TNC swithes, Interlocking facilities, Voltmeter with selector switches, Terminal blocks, CTs/ VTs etc. as required for the complete unit for control and protection HV side requirement etc. The panel shall be suitable for connecting to **10/13.33 MVA or 16/20MVA** power Transformer in accordance with the drawing.

| | | |
|-----|---|---|
| 1. | Installation | Indoor |
| 2. | Type | Vacuum, Draw-out Pattern Cubicle |
| 3. | Bus-bar Scheme | Single bus bar |
| 4. | Construction | The structure of the cell is made of special sheet clad with convenient treatment which in all respect resists the effected of indoor humid tropicalized climate. |
| 5. | Mounting | Trolley Type/ Floor Mounting |
| 6. | System | 3-Phase, 3-Wire with earthed Neutral |
| 7. | Nominal System Voltage | 11 kV Phase to Phase |
| 8. | System Highest Voltage | 12 kV Phase to Phase |
| 9. | Rated short duration power frequency withstand voltage | 28 kV (rms) |
| 10. | Rated Lightning Impulse withstand voltage | 75 kV (peak) |
| 11. | Frequency | 50 Hz |
| 12. | Rated normal current: | |
| | a) for 10/13.33MVA or 16/20MVA power transformer 11kV Incoming | 1600A |
| 13. | Temperature rise of any part of the switchgear & control gear | Shall be as per the latest revision of relevant IEC standards. |
| 14. | Rated Short-time withstand Current (Rated short circuit breaking current) | 25 KA for 3 Sec. |
| 15. | Rated Peak withstand Current (Rated short circuit making current) | 62.5 KA |
| 17. | Opening Time | ≤ 0.05 Sec. |
| 18. | Breaking Time | ≤ 5 Cycle |
| 19. | Rated supply voltage of closing & opening devices and auxiliary circuits. | 110 Vdc & 240/415 Vac Respectively |
| 20. | Rated supply frequency of closing & opening devices and auxiliary circuits. | 50Hz. |
| 21. | Rated Operating Sequence | 0-0.3sec-CO-3Min-CO |
| 22. | Degrees of Protection by enclosures (IP) | IP4X as defined in IEC 60529 |
| 23. | All Current Carrying Parts of VCB | Shall be made of copper |
| 24. | Dimensions of all 11kV Cubicles (including bus bar height and size) | Shall be matched in all respect. |
| 25. | Standard | Design, Manufacture, Testing and Performance shall be in accordance to the IEC-62271-200 and other related IEC standards. |

7.1.5.2 11kV TRANSFORMER INCOMING CUBICLES, EACH PANEL COMPRISING:

| | | |
|-----|---|---|
| 1. | Type of Bus Bar | HDHC copper 1600A. |
| 2. | Bus Bar Scheme | Single Bus Bar |
| 3. | Type of Circuit Breaker | Vacuum |
| 4. | Number of Phases | 3 (Three) |
| 5. | Operating Mechanism | For Circuit Breaker operation, both spring-operated and stored-energy mechanisms shall be available. With manual Power/Manual, Trip Free, Electrically Spring wound operated by 240 Vac and shunt trip by 110 Vdc from storage battery, vertically disconnected horizontal draw-out type with 2 Nos. Trip coils. The operating sequence OPEN-CLOSE-OPEN is stored in the springs. |
| 6. | Rupturing Capacity. | 500 MVA, Symmetrical. |
| 7. | Breaking Time. | 5 Cycle Maximum |
| 8. | Continuous Current Rating. | 1600 A |
| 9. | All Current Carrying Parts of VCB. | Shall be made of Copper |
| 10. | AC Control Voltage. | 240 ± 10% Volts |
| 11. | DC Control Voltage. | 110 ± 10% Volts |
| 12. | Cable and Boxes for Incoming. | Suitable for size 2x1Cx500 mm ² XLPE 11kV cables per phase with copper conductors. |
| 13. | Single Phase Current Transformer with Ratio 800-1600/5-5-5A of burden & accuracy class-20VA & 0.2 (for measurement) and 20VA & 5P20 (for protection) . (Characteristics: Epoxy resins insulated and double windings, butyl rubber type. The epoxy resin should be ultraviolet stabilized, fungus resistant & high tracking resistance, short time current ratings 25KA for 3 second & extended current ratings 120% of the rated value, secondary double winding, installation shall be in the panel). | 3 Nos. (A Phase, B Phase & C Phase Shall have Individual CT) |
| 14. | Numerical, programmable IDMT & Instantaneous type Over Current and Earth fault protection relay and separate Standby Earth fault and all other necessary features for transformer incoming feeder protection. The current setting range of the O/C & E/F relay shall be from 0.1*I_n to 40*I_n for both overcurrent and earth fault element. All O/C & E/F relays shall have both IDMT, DT (51) and Instantaneous (50) function along with IEC NI, VI, EI, LTI etc. curve setting capability with all other necessary protection & monitoring functions. O/C & E/F relays for 11kV transformer Incoming Cubicles shall have directional features as well .The numerical programmable relay shall have IEC 61850 communication protocol suitable for SAS implementation. Necessary Binary I/O module along with the relay (alternately separate BCU will also be accepted) shall be provided for SAS/SCADA operation. | 1 set |

| | | | |
|-----|--|---|--------------------------|
| 15. | Master Trip relays. | 1 Set | |
| | Trip Circuit Supervision relays. | 2 Set | |
| 16. | All necessary Auxiliary & Signaling relays. | As required. | |
| 17. | Numerical Programmable 3 phase, 4 wire, 3 element solid state, indoor type, multi tariff programmable KWH Meter of accuracy class 0.2s with the features for measuring the parameters viz. phase voltages, phase currents, per phase & total KW with maximum demand, KVar, Power factor etc. | 1 No. | |
| 18. | Indicating analogue ampere meter flush mounting type with dual scales option (0-800A/1600A) for connecting to the current transformer ratio 800-1600/5-5-5A. | 3 Nos. | |
| 19. | 70W, 240V AC, Single Phase space heater with thermostat and a visible light indicator which indicate the "ON"- "OFF" position of the heater | 1 set | |
| 20. | All necessary AC DC MCB, TNC Switch, Selector Switch, Limit Switch, Control Switch, Toggle Switch, Link/ Base, Push Button, Indicating/ Illumination Lamp, AC Plug Socket, Wiring, Fuses, Hooter etc. i.e. complete in all respect. Mimic diagram with LED based Semaphore Indicator for Isolator/Breaker/Earth switch position. | As required. | |
| 21. | 11 kV bus incomer Switchgear panel (12 window Annunciator) | | |
| | Main DC Fail | AC Fail | Main Relay Faulty |
| | TCS-1 Unhealthy | TCS-2 Unhealthy | O/C Trip |
| | 67 Trip | 67N Trip | Standby E/F |
| | | | PT Failure |
| | | | E/F Trip |
| | | | 33 kV Inter trip |
| 22. | 11kV PT | As described in GTP may also be proposed. | |
| 23. | Indicating analogue voltmeter with six position selector switch flush mounting with scales 0-15 kV for connection to potential transformer ratio $(11/\sqrt{3})/(0.11/\sqrt{3})/(0.11/\sqrt{3})$ kV, (50 Hz). | 1 set | |
| 24. | Multifunctional meter (MFM) capable of measuring and displaying MW, MVAR, PF, V, I, f, ϕ etc. distinguishing import and export operation. | 1 set | |
| 25. | Capacitive Voltage Divider (CVD) based Live Line Indicator (LLI) system. | 1 set | |









7.1.5.5 MEASURING CUBICLES, EACH COMPRISING:

- 3 nos. epoxy resin-insulated single phase potential transformer having a ratio of $(11/\sqrt{3})/(0.11/\sqrt{3})/(0.11/\sqrt{3})$ kV (50 Hz), accuracy class 0.2 for measurement and 3P for protection, rated burden of 30VA connected to the bus through fuses. The epoxy resin should be ultraviolet stabilized, fungus resistant and should have high tracking resistance.
- 1 no. Indicating voltmeter, flush mounted with scale 0 to 15 KV for connection to the potential transformer.
- 1 no. voltmeters selector switch with 6 (Six) positions flush mounted, rated voltage 500 Volts (50 Hz) rated current 15 Amps, front plate with inscription AB-BC-AC-AN-BN-CN.
- 1 set, necessary supporting insulators and other accessories, wiring, fuses, heater etc.

7.1. 5.6 FEATURES & ACCESSORIES

-
- a) VCB should be restrike free.
 - b) VCB should be trip free.
 - c) Vacuum Interrupter shall be capable of short circuit current **switching ≥ 50** .
 - d) Breaker trucks of different current ratings shall not be interchangeable. **The breaker truck shall be wheel mounted and rail supported.**
 - e) All current carrying parts shall be made of copper.
 - f) Hand closing and tripping shall be done through manual levers.
 - g) Manually operating devices for slow closing for inspection and maintenance. It shall not be possible to slow close a breaker when in normal services.
 - h) Each cubicle shall have ON-OFF indicator and provision for manual operation and necessary **mechanical & electrical** interlocking.
 - i) Protective relay shall be sufficient for over current and earth fault protection and shall be of numerical programmable type. Accessories/Software required if any, Control & Protection Scheme drawings and Operation & Maintenance manual is within the scope of supply for each panel. **All the relays shall be IEC 61850 protocol type for automation network of the 33/11kV Sub-station. In addition, numerical relay shall have sufficient contacts and shall be configured for SAS operation. Intermediate auxiliary relay with sufficient spare contacts shall be used for controlling CB or any other switching devices through numerical relay in case of SAS operation.**
 - j) All indicating meters will be semi flush type with full view 240" scale range with intimate dial, black marketing and pointer with moving element with zero adjuster.
 - k) The painting shall be gray (**RAL 7032**) outside and glazed white inside.
 - l) All equipment and accessories shall be fully tropicalized.
 - m) Necessary foundation bolts, spare heaters (installed and wire), manual handle for the breakers, test jumpers, portable lamp, set of test plug for test terminals and draw-out type relay shall be supplied.
 - n) The complete panel and its accessories shall be made to the latest relevant IEC standards.
 - o) VCB shall be removable, draw-out type **floor mounted/ trolley type** and all the protective relays shall be mounted on the upper part of the panel.
 - p) Rating plate and diagram plate having all information as per relevant IEC standard shall be made of stainless steel and have engraved letters filled with black enamel paint.
 - q) At least three sets relay & meter testing plug shall be supplied.
 - r) Each VCB cubicles shall be complete according to the specification, features and bill of materials but not limited to these items; the VCB cubicles should be complete in all respects, to make it fully operational.
 - s) Tripping from protection to circuit breakers shall be through fast acting (<10 msec) Trip relays.
 - t) CT terminal block shall have isolation, shorting & jacking facility while PT terminal block shall have isolation & jacking facility.
 - u) **Sufficient spare terminals (at least 10%) in each terminal block.**
 - v) **Provision to hang danger/ caution board.**
 - w) **The Switchgear panel shall be SCADA/SAS compatible and hence all intelligent devices, digital energy meters etc. shall comply IEC61850. All physical connections for control, measurement and status indication shall be made SAS ready.**
 - x) **70W, 240V AC, 1-phase heater with thermostat and control switch and a visible light indicator which indicate the "ON" & "OFF" position of the heater.**
 - y) Circuit Breaker control indicating switches and indicating lamps to indicate spring Charge/ Readiness for closing and healthy trip circuit indicating readiness for tripping.
 - z) Circuit Breaker shall have 2 trip coils, **Both trip coils shall be energized by separate contacts of master trip relay for protection tripping. However, for manual tripping, only one trip coil can be engaged only.**

aa) Indicating/Signaling Lamps shall be of LED type. Following LED Indicators including Lamp test facility shall be provided in the panel:

| | | | | | | | |
|---|---|---|---|---|---|--|---|
|  |  |  |  |  |  |  |  |
| DC Available | AC Available | CB Open | CB Close | Spring Charged | CB Tripped | CB in Test Position | CB in Service Position |

ab) Mimic diagram shall contain LED based Semaphore Indicator instead of moving Semaphore indicator.

ac) Ferrule marking and color coding for all type of wiring shall be as follows:

1. Ferrule marking:

- i. "A"- for differential protection circuit
- ii. "C"- for O/C & E/F protection circuit
- iii. "D"- for metering circuit
- iv. "E"- for PT circuit
- v. "L"- for Alarm & Indication circuit
- vi. "S"- for fault recorder

2. Color coding:

- i. "Black"- for phases of AC supply
- ii. "White"- for neutral of AC supply
- iii. "Grey"- for control circuit
- iv. "Brown & Grey"- for (+) and (-) DC supply respectively
- v. "Red, Yellow, Blue, Black"- for CT and PT circuit
- vi. "Yellow with green strip"- for earthing

ad) A copy of Control circuit scheme shall be laminated and fixed to the inner side of the door of the cubicle

ae) Operation Counter for the circuit breaker.

af) Anti pumping feature shall be provided/ included.

ag) Bidder shall supply related software (1copy) and manuals describing trouble shooting procedure(3copies).

ah) Bidder shall supply the operation manuals of relay and meters describing the trouble shooting and configuration procedure (3copies).

ai) Inter tripping arrangement for 11 kV incomer Cubicle (from 33 kV transformer feeder tripping) and for 33 kV transformer feeder (from directional tripping of 11 kV incomer or Stand by E/F tripping) shall be provided. All type of tripping shall be done through Master Trip relay.

aj) Separate DC MCBs shall be provided for DC supply to Power, Control and Alarm & Indication circuits.

ak) Relay test plug facility shall be provided in all 11 kV Switchgear panel along with licensed software (CD), communication cable and catalogues etc.

7.1.5.7 INFORMATION REQUIRED

The Bidder/ Manufacturer as per tender requirements shall provide all information. Besides these, the following information has to be submitted:

- a) Manufacturer's Printed Catalogue describing specification and technical data for crucial components (i.e. breakers, vacuum interrupter, relays, energy meters, annunciator, etc.) of offered type equipment.
- b) Outline and General Arrangement drawings.
- c) The Bidder/ Manufacturer shall submit the list of available testing/ measuring equipment, meters, etc., along with valid Calibration Certificate(s) from competent authority used in manufacturer's laboratory for performing Routine Test as per IEC standard.

7.1.5.8 PROTECTIVE RELAYS

All Protective relays shall be numerical programmable type and shall comply relevant IEC or equivalent international standard. All the relays shall be IEC 61850 protocol type for automation network of the 33/11kV Sub-station.

All the protective relays shall be supplied from any of following manufacturers:-

- a) ABB (Switzerland/Sweden/Finland).
- b) Siemens (Germany).
- c) ALSTOM (UK/France)
- d) Schneider Electric (UK/France)
- e) NR, China
- f) SEL, USA

Note: Supply of Related software & accessories is within the scope of supply.

7.1.5.9 ENERGY METERS

KWH meter shall 3-phase 4-wire, Numerical Programmable Multifunction KWH Meter of accuracy class 0.2 with the features for measuring the parameters viz. phase voltages, phase currents, system frequency, per phase & total KW with maximum demand, KVAR, Power factor etc.

It has to be ensured that the meter complies IEC61850 for SAS operation. If required, internal/external module as protocol converter can be used for the compatibility with IEC61850. However, the detail specification of the meter shall be same as that for 33 kV PCM panel meter described in **clause 7.1.4.1.N**.

All the energy meter shall be supplied from **European Country/ North American Country/ Japan/Australia**.

Note: Manufacturer's authorization for Protective Relays & Energy Meters (KWh) shall furnish with the offer. Necessary software & accessories is within the scope of supply.

7.1.5.10 CONSTRUCTION DETAILS

Each panel shall be fabricated from steel sheet (minimum 1.62 mm thick) with necessary steel member reinforcement to make the structure self supporting. All joints are to be welded and ground to be made smooth.

Mounting brackets required shall be arranged inside the panel for mounting and fixing auxiliary devices and terminal blocks.

Instruments meters control switches and protective relays shall be mounted on the front panel only. Panel output mounting studs and support brackets shall be accurately located.

Finished panel surface shall be free of waves and other imperfections exterior panel surfaces shall be sand blasted, ground smooth, filled, panel and finished with gray enamel. Interior surface shall be sand blasted, primed and finished with glass white enamel.

The LV panel shall be designed to facilitate entry of inter-panels control wires and cables. The LV & Breaker compartment doors shall be equipped with hinged formed door. The door shall be rigid and shall be equipped with three point latches. The breaker & busbar compartments shall be capable of withstanding internal faults.

The supplier shall furnish internal panel wiring and circuit protection. The supplier shall provide one 70W, 240, AC strip heater in the panel. The heater shall have a separate switch. Engraved name plate shall be provided at the top of the front enclosure.

7.1.5.11 PANEL WIRING

The supplier shall provide internal wiring and connections, in accordance with the requirements of the following paragraph.

All wiring used within the panel shall conform to the requirements of these specifications and shall be installed and tested at the factory. All wiring shall be neatly and carefully installed in wiring gutters of raceway wiring raceway shall be plastic wiring duct with covers. Instrument wiring on the panel shall be numbered sequentially from the sources to the panel instrument and the number of the source equipment shall be used as a prefix for the individual wire numbers, wiring shall be terminated at terminal blocks plainly lettered or marked in accordance with the manufacturer's connection diagrams.

Sufficient clearance shall be provided for all the leads. All the leads for external circuit wiring shall be connected to grounded terminal blocks located for convenient connection of external circuits.

Splices will not be permitted in panel wiring. All the terminal block connections shall be made with ring type lugs. Pre-insulated ring type terminals with crimp guide or per-insulated slotted spring spade terminals shall be provided on devices equipped with individual fitted covers. Arrangement of circuits on terminal block shall be such that all the connections for one circuit, plus any spare conductors, shall have terminal blocks adjacent to the split and shall be provided with wiring required to interconnect the split unit.

Closing circuit of the Switchgear panel shall have interlocking mechanism with breaker position (Test position/Service position). Earth switch of the Switchgear panel shall have mechanical interlocking alongside electrical interlocking. Single point grounding of the neutral of CT/PT circuits shall be ensured. Ferrule marking and color coding shall be as per clause "7.1.5.6 Features & Accessories".

The size of the wiring used in the panel shall be conform to the following requirements:-

- Ampere meter and current transformer circuit: **minimum** 4 Sq.mm.
- All other wiring: **minimum** 2.5 Sq.mm.

7.1.5.12 INDICATING LIGHTS

LED type indicating lights shall be of transparent glass lenses and appropriately sized resistor.

7.1.5.13 POWER SUPPLY DISCONNECT

Each panel mounted devices requiring AC or DC supply, shall have disconnecting devices (MCB). The MCBs used in DC control circuit shall have a rating of 10 A and 250 V. The fuses shall be modular type with Bakelite frame and reinforced retaining clips.

7.1.5.14 TERMINAL BLOCKS

Terminal blocks shall provided with white marking strips, circuit designation by the supplier shall be inscribed on the marking strip with black print, terminals in a quantity of not less than 25 percent of the interconnected terminals in excess shall be provided on each terminal block for circuit modifications and for termination of all conductors in multi-conductor cable.

CT terminal blocks shall have isolation, shorting & jacking facility while PT terminal blocks shall have isolation & jacking facility. CT, PT, Control, Alarm, etc. wirings shall be separately grouped or segregated.

All physical connections for control, measurement and status indication shall be made SAS ready hence Terminal Blocks shall be kept reserved if necessary.

Terminal block shall be grouped in each panel for easy accessibility unrestricted by interference from structural members and instruments. Sufficient spaces shall be provided on each side of each terminal block to allow an orderly arrangement of all the lead to be terminated on the block.

7.1.5.15 INSTRUMENTS AND DEVICES

Indicating, analogue instruments shall be semi flush panel type with 1% percent accuracy class except for energy meters which shall be of 0.2. They shall be approximately 100 mm square with black 240 degree scales on a white back ground.

All AC instruments shall be designed for operation on 5A current transformers secondary and 110V (50 Hz) potential transformer secondary.

7.1.5.16 CONTROL AND DEVICES

All switches shall be located at a convenient operating height and so constructed, mounted and wired to facilitate the maintenance of contacts without the need to disconnect wiring. Switches shall have locks incorporated in the design. Control switches must be lockable in the inactive or neutral position and selector switches in all positions. Labels shall clearly indicate all positions and function of each switch.

7.1.5.17 Control Switches

Control switches shall be of either the handle type and shall be arranged to operate clockwise when closing the circuit devices and anticlockwise when opening. Handle type switches shall be so designed that when released by the operator the handle and mechanism shall return automatically to the centered neutral position and interrupt the supply of current to the operating mechanism of the circuit device. All control switches shall have additional labeling giving the reference identification of the primary device.

7.1.5.18 SELECTOR SWITCHES

Selector switches shall have spade type handles. Where key operated switches are specified these shall be operated by inserting and turning the key to the required position. The key shall be removable in the 'off' position only.

1) 7.1.5.19 ANNUNCIATOR RELAY

Each 11 kV Switchgear Cubicle shall be equipped with 1 (one) set Annunciator with sufficient windows (LED type with blinking facility) to display the alarms as per requirement. Annunciator shall have built in buzzer and AC/DC fail relay and shall be powered by dual source (with internal/external AC/DC changeover switch). Buttons for Accept, Mute, Test, Reset etc. shall be provided in the Annunciator.

2) 7.1.5.20 INDICATING AMMETERS

Each 11kV PCM Cubicle will be provided with 3 Ammeters, analogue type (1 for each phase).

3)

4) 7.1.5.21 INDICATING VOLTMETERS

1 (one) voltmeter with selector switch, analogue type with a multi-selector switch (phase to phase, phase to neutral, off) shall be installed on 11kV transformer panel.

7.1.5.22 ISOLATING FEATURES

The circuit breaker shall be connected to the busbars and feeder circuit through plug and socket type isolating devices. The devices shall be off load type but shall be suitable for operation whilst the busbars or feeder circuits are live. The isolators shall comply with IEC 62271-102 standards. The following circuit breaker locations shall be provided and the description of each position shall be as per relevant IEC standards. The following positions shall be provided as a minimum:

ISOLATED (OR MAINTENANCE)

TEST SERVICE: Mechanical and lamp indications shall be provided to show the location of the circuit breaker (ie. CB in test position, service position etc). Such indications shall be visible from the front of the equipment at all times.

7.1.5.23 EARTH SWITCH & EARTHING SYSTEM

Earthing switches shall be arranged to permit safe maintenance of any section of the equipment when the remainder is live. Mechanical Interlock shall be provided such that when the cable is live the line earth switch shall not close. Local Electrical/ Mechanical position indicators shall be provided on all switches and shall be visible from the front side of the panel. The field contacts used for electrical indicators shall be contacts of limit switch which shall be actuated at the instant of earthing blades set at final position of operation.

7.1.5.24 EARTHING SYSTEM

All metal parts other than those forming part of any electrical circuit shall be earthed to the earthing system. Any necessary terminals on any part of the equipment required for this purpose shall be provided by the Manufacturer. Earthing conductor cross section shall be in accordance with the manufacturer standards which shall be proved with necessary type test reports. However, for 11kV switchgear minimum 300 mm² cross section copper bar shall be employed for earthing. The copper earth bar shall run along the full length of the switchboard and earthing studs shall be provided at not less than two points. The frame of the draw-out circuit breaker earthing truck shall be automatically connected to the switchgears bar through substantial plug type contact when the circuit breaker is in disconnection, service and test position.

7.1.5.25 TRIP RELAYS

Following shall be the main features of a high speed tripping relays:

All tripping relays shall be of the heavy duty **and self-reset** type suitable for panel mounting and shall have operating coils which are rated sufficiently to operate in conjunction with series flag relays. If necessary, normally closed contacts in series with the relay operating coil, shall be delayed for a period which will allow series flag relays to operate satisfactorily. All other tripping contacts should be instantaneous i.e. no intentional time delay. The operating time shall not exceed 10 milliseconds at rated voltage. The operating range of the relay shall be from 70% to 120% of rated voltage.

Trip Relay shall be of following types:

- a. Self-reset type
- b. Operating Coil Voltage: 110 V DC (No series resistor allowed).
- c. Shall have in built freewheeling diode.

Wherever the tripping relay contacts need to break the d.c. current, sufficiently rated magnetic blow out contacts or such approved means shall be used.

7.1.5.26 SUPERVISION RELAYS

7.1.5.26.1 Trip Circuit and Protection Supply Supervision

The trip circuit supervision function shall be **a separate relay and independent** of control and protection unit provided in the switchgear. Trip circuit supervision relays shall be provided to monitor each of the trip circuits of all 11kV circuit breakers and each relay shall have sufficient contacts for visual/audible alarm and indication purposes. The trip circuit supervision scheme shall provide continuous supervision of the trip circuits of the circuit breaker in either the open or closed position and independent of local or remote selection at the local operating position. Relay elements shall be delayed on drop-off to prevent false alarms during faults on dc wiring on adjacent circuits, or due to operation of a trip relay contact. Series resistances shall be provided in trip supervision circuits to prevent mal tripping a circuit breaker if a relay element is short circuited. Relay alarm elements shall be equipped with hand resetting flag indicators.

Trip circuit supervision relay (TCSR) shall supervise not only the trip coil but also the whole trip circuit during both breaker open and close position (pre-close & post-close). Both trip circuits shall be supervised by separate TCS relay. TCS function of main relay shall be avoided for supervision.

7.1.5.26.2 D.C. Supply Supervision

Supervision relays are required for each protection supply, Main protection, Back-up and Trip Relay Reset. Similarly for each trip circuit supply and for each alarm/ indications supply. These supervision relays are to be independent of alarms from the trip circuit supervision scheme so that the operator can clearly differentiate via the available alarms between loss of supply due to a blown fuse / tripped MCB and failure of a trip circuits supervision /faulty supervision wiring.

5)

6) **7.1.5.27 MIMIC BUS**

Mimic bus material shall be brass, bronze or copper with enamel finished or anodized aluminum or plastic. The mimic bus and included symbols shall be shaped, colored and located as international standard. Light indicator showing position (opening/closing) of **circuit breaker, DS, ES shall be installed.** The mimic bus shall be attached to the panel by mechanical devices, not with adhesive. Attachment shall be closely spaced to hold all parts of the mimic bus firmly to the panel face.

Mimic bus shall be provided with the following dimensions and color code:-

| <u>Voltage</u> | <u>Bus Color</u> | <u>Thick</u> | <u>Dimension (mm)</u> |
|----------------|------------------|--------------|-----------------------|
| 11 KV | Black | 3 | 12 |

LED based Semaphore Indicator showing the position (open/close) of Circuit Breaker and Earth Switch shall be inserted within the mimic bus.

7.1.5.28 Auxiliary Relays

Each 11 kV Switchgear Cubicle shall be provided with 1 (one) set separate Auxiliary and signaling relay and wiring with fuses. This relay shall be used for control & monitoring of CB and ES through numerical relay/BCU in case of SAS operation.

7.1.5.29 Live Line Indicator

Each 11 kV Switchgear Cubicle shall be equipped with CVD based Live Line Indicator (LLI) system.

7.1.5.30 TESTS AT MANUFACTURERS WORKS FOR 11KV SWITCHGEAR:

7.1.5.30.1 GENERAL

Functional electrical, material and mechanical tests shall be carried out at manufacturers' premises. The extent and method of recording the results shall be agreed by the Purchaser in ample time to enable the tests to be satisfactorily witnessed or to make any changes to the proposed program of tests.

7.1.5.30.2 MATERIAL TESTS:

The supplier shall provide test pieces free of charge as required to enable the quality of the material to be determined at the supplier's expense. Purchaser may at its own discretion and by specific arrangement accept certified particulars of tests carried out in the absence of his authorized representative.

7.1.5.30.3. TYPE TEST:

Type tests are required on all items to prove the general design of the goods offered. The Bidders shall submit the type test report of offered item from internationally reputed independent testing laboratory.

7.1.5.30.4. ROUTINE TESTS:

All items shall be subjected to routine tests in accordance with the relevant latest version of IEC 62271-1, IEC-62271-200, IEC-60298 IEC-60255 standards at the manufacturers works and shall include, but not be limited to, an operational test.

TECHNICAL ORIENTATION AND QUALITY TEST WITNESS:

The Purchaser shall have the right to inspect/ Test the goods/materials to confirm their conformity to the Technical specification. The purchaser shall be entitled at all reasonable time during manufacture

to inspect, examine and test of goods/ materials at the manufacturers' premises, workmanship and performance.

The following test of (not limited to) shall be carried out for **11KV Switchgear** as per latest version of IEC-62271-200, IEC-60298 IEC-60255 and other relevant IEC standard. Among others, the following test shall be included but not limited to:-

- a) Di-electric test on the main circuit.
- b) Test on Auxilary and control circuits.
- c) Measurement of the resistance of the main circuit
- d) Tightness test.
- e) Design and visual (Physical) checks
- f) Electrical and Mechanical operation test.
- g) Relay, control and protection scheme functional check.

Test shall be performed in accordance with the relevant IEC Standards and shall be complied with offered Guaranteed Technical Particulars. All expenses for such tests shall be borne by the supplier, which shall deemed to be included in the offered price.

The Supplier shall, after consulting the purchaser, give the Purchaser reasonable notice in writing of the date on and the place at which any material or equipment will be ready for testing as provided in the contract and unless the purchaser shall attend at the place so named on date, which the supplier has stated in his notice, the supplier may proceed with the tests, which shall be deemed to have been made in the purchaser's presence, and shall forth with forward to the purchaser duly certified copies of test readings.

When the purchaser intends to attend the test he shall promptly inform the supplier accordingly in writing, so that he can take action. The purchaser shall give the supplier timely notice in writing of his intention to attend the test.

Where the supplier provides for tests on the premises of the supplier or of any manufacturer of the supplier, except where otherwise specified, shall provide free of charge such assistance, labor, materials, electricity, fuel, stores, apparatus and instruments as may be requisite and as may be reasonably demanded to carry out such test efficiently. These test shall be performed as per relevant IEC/BS Standard or equivalent and only routine tests as agreed upon, will be performed.

As and when the purchaser is satisfied that any materials/equipment shall have passes the tests referred to in this clause, purchaser shall notify the contractor in writing to that effect.

Should any inspected/tested goods fail to conform to the specification, the Purchaser shall have the right to reject any of the item or complete batch if necessary. In that case Supplier have to replace the Equipment and to make good of them without any financial involvement to the Purchaser. In case any of the Equipment found not conforming with the specification at the time of post landing Inspection, the supplier will in no way be relieved from the responsibility of replacing them on making them good at their own cost, despite the Equipment were found good at the time of Factory Acceptance Test. Nothing in this clause shall in any way release the supplier from any warranty or other obligations under the contract.

No goods shall be packed, prepared for shipment/delivery unless it has been approved and written instruction have been received by the Purchaser.

7.1.4.1.W SPECIFICATION OF 110V, 3 x 5(6) A, 3-PHASE, 4-WIRE, 3-ELEMENT, INDOOR TYPE MULTI-TARIFF PROGRAMMABLE METER WITH ASSOCIATED INSTRUMENT TRANSFORMERS ENCLOSED IN METERING PANEL.

7.1.4.1.W. A GENERAL

The meters are required for the purpose of energy metering of medium/high/extra-high voltage consumer metering at 132 kV or 33 kV or 11kV level. KWh is the unit for the purpose.

| | |
|------------------|---|
| System voltage | Nominal service voltage 110V (PT Secondary), 3 phase 4wire, solidly grounded neutral at source, maximum system voltage 120V line to line. |
| System frequency | 50 Hz |

7.1.4.1.W. B SPECIFICATION OF 110V 3 x 5(6)A, 3-PHASE, 4-WIRE 3-ELEMENT, INDOOR TYPE MULTI TARIFF PROGRAMMABLE DIGITAL ENERGY METER

The consumer meters are required for the purpose of energy metering of low voltage consumer who purchases power at 11 kV/33 kV line through PT & CT. kWh is the unit for revenue purpose.

| | |
|-----------------------|---|
| System voltage | : Nominal service voltage 110V, 3 phase 4 wire, solidly grounded neutral at source, maximum system voltage 120V line to line. |
| System frequency | : 50 Hz |
| Standard | : The Energy Meter should be designed, manufactured and tested in accordance with IEC 62052-11, 62053-22 and 62053-23 or ANSI C 12.16, 12.10 (latest publication) or specified in this specification |
| Installation Type | : Indoor Type : Solid state. |
| Application | : Registration of KWh (Peak & off-peak), Total KVarh(Q1+Q4), KW on 3-phase, 4-wire supply for balanced & unbalanced load (unidirectional). Peak 17.00-23.00. hrs and off peak 23.00-17.00 hrs (programmable) Bangladesh standard time. The software for Time of Use (TOU) shall be so developed to accommodate future tariff and can be customized, if the purchaser changes the tariff. The software shall be compatible with Windows operating system. |
| Connection | : 3-phase 4-wire, solidly grounded neutral. |
| Nos. of element | : 3 (Three) |
| Rated current | : Basic current 5 amps and maximum current ≥ 6 amps. |
| Multiplication factor | : The following shall be inscribe on the mater. Dial reading X CT ratio X PT ratio = Actual reading in KWh. |
| Register | : Solid state LCD display type register. The display shall be programmable, automatic and include: <ul style="list-style-type: none">• Meter ID• Time & date• Cumulative KWh (Peak & off-peak)• Cumulative Total KVarh (Q1+Q4)• Maximum demand (KW) with time & date• Cumulative Maximum demand (kW) for billing month. Maximum demand (MD) in kW shall be registered using the technique of cumulating on integration period controlled by built-in process and the MD shall be continuously recorded and the highest shall be indicated. The highest MD shall be added to the cumulative store, which shall be automatically initiated after an interval of one month / one billing period by means of built-in timing device. |

| | |
|-----------------|--|
| | <ul style="list-style-type: none"> • Integration period: 30 (thirty) minutes. • Number of MD reset (Automatic & manually). • Average PF for billing period. |
| | <p><u>Instantaneous:</u></p> <ul style="list-style-type: none"> • Phase voltage with indication • Phase amps with direction. • Power factor (average). • Demand (KW) • Voltage phase angle (each phase) or P.F. Angle (each phase) • Current phase angle (each phase) • Tampering indication in the register. |
| Memory storage | <p>: The meter shall have sufficient capacity (minimum 400 KB) to store the following readings and data in non-volatile memory even in case of power failure.</p> <ul style="list-style-type: none"> • Equipment identification codes, security codes and access codes. • Number of power interruption with date & time (minimum 100 events). • Latest power failure time & date • Date & time of meter tampering. (Voltage & Current missing, demand reset, time change). • Event logs • Current & Previous registered in month kWh (Peak & off-peak), Total KVarh (Q1+Q4) • Current & Previous month registered with maximum KW demand since last MD reset with time and date of its occurrence. <p>The meter must have sufficient capacity to store data at 30 (thirty) minutes interval for at least 90 (ninety) days.</p> <ul style="list-style-type: none"> • Load Profile data [kWh, KVarh (Q1+Q4) • Phase voltage or Vh • Phase amps or Ah |
| Accuracy class | : Accuracy class is 0.2s (point two s) for active energy (KWh) & 0.5s for reactive energy (Kvarh) |
| Number of digit | Minimum 5 (Five) integer with 1 (One) decimal (Total 6 digit). |
| Type of Display | Solid-state LCD display. |
| Time switch | : The time switch shall be built-in type and shall be designed to perform a present cycle of operation. Time switch shall reset MDI at the end of every month (billing period) automatically. In the event of failure of power supply and battery, at the same time set memory shall not be lost i.e. the set program shall be recorded in non-volatile memory. The maximum error shall be kept within ± 1 (one) second per day. Time error adjustment facility shall be provided. |
| Battery reserve | : Each time switch must be provided with lithium battery which allow the switch to function for a period of not less than 10 (ten) years. The guaranteed life of the battery should not be less than 10 (ten) years and shall have provision for easy replacement. The shelf life of the battery should be minimum 15 (fifteen) years or more. |
| Construction | : The meter shall be completely self-contained round socket or enclosure type. The meter cover shall be made of polycarbonate/acrylic /phenolic /resin and socket cover shall be made of metal polycarbonate/ acrylic /phenolic /resin. The meter cover and socket /enclosure shall be provided with security sealing provisions to prevent unauthorized access to the internal meter works and socket /enclosure sealing shall be designed to accommodate both padlock and wire type seal. |

| | |
|----------------------------------|---|
| Enclosure for IEC Standard Meter | <p>IEC meters shall be minimum IP51. The ANSI Standard meter shall be effectively sealed to prevent entrance of rain and dust into its internal parts. The meter shall pass Rain test described in underwriter's laboratory standard UL-50 (USA) for type 3 enclosures. A general purpose finish of class 1 as specified in section 7 of ANSI C12.10 shall be provided for the meter and it shall meet the requirement of weather simulation test (Sec. 7.2.1 of ANSI C12.10) and salt spray test (ASTM B117). It shall be designed to operate continuously for the normal life of the meter in unsheltered outdoor tropical location exposed to the elements without corrosion or other damage to parts to adversely affect meter accuracy or reliability.</p> <p>The meter shall be surface mounted in PCM panel with necessary wiring. The enclosure box should be made either of high quality flame retardant ABS Resin of minimum 3 mm thickness or of galvanized sheet steel of minimum 1.22 mm (18 SWG) thickness or of auto extinguishable, shockproof and UV resistant, hot molded glass reinforced polyester of minimum 3 mm thickness. The box shall have hinged front door with one toughened glass window or transparent UV resistant Polly carbonate to enable easy reading of meter. The metering box shall be weather proof, dust proof, rodent and insect proof in accordance with enclosure classification IP54. Service cable entry and exit will be sides of the box and 40 (forty) mm diameter hole with black PVC conic cable gland shall be provided for side entry & exit for this purpose. All material parts shall have anti-corrosive protection.</p> <p>All materials shall be designed, manufactured and tested as per IEC or equivalent International standards except as mentioned. The front door shall be removable and provision must be made for sealing in the closed position.</p> |
| Socket | <p>: Meter sockets shall be suitable for installation of offered type meter. Meter sockets shall be 3-phase, 4-wire wye, 600 volt class, made from 16 gauge sheet metal. Meter sockets shall be similar except as described below. Meter sockets shall approximately 14" (35.6 cm) H×9"(22.9cm) W×4" (10.2 cm) D and rectangular in shape. Sockets shall be the same size as 1-phase sockets and terminal blocks shall be interchangeable. Sockets shall be ring less type, sealing latch to be stainless steel and have adequate means for socket grounding. Meter socket shall have a 2"(5 cm) Diameter top opening complete with a 1- ¼" (3.2 cm) hub. Meter socket shall have 4 knockouts with a range up to 2"(5 cm) Diameter, one on the back, one in the bottom and one in each side. Meter socket shall comply with ANSI C 12.6, 12.10</p> <p>The Socket shall have written permanently (not in paper printed) "connection diagram" distinctly marked in addition to all standard data.</p> |
| Terminal | <p>: Socket connected type/ Non-symmetrical, bottom entry, front connection, and connection type with extended terminal cover: Minimum 10 Terminals to accommodate up to 06 sq. mm size of cable. The terminal cover for the offered energy meter shall be extended type, and which can be sealed independently. There shall be free space between bottom of the terminal and the bottom of the terminal cover.</p> |
| Connection | <p>: 3-phase, 4-wire solidly grounded neutral.</p> |
| Service life of meter | <p>: Shall be minimum 15 (fifteen) years.</p> |
| Visual indication of operation | <p>: Pulse indicator on the front of meter as per meter constant.</p> |
| Special condition | <p>: a) The factory calibration conforms to relevant IEC or equivalent</p> |

| | |
|----------------------|--|
| | international standard. LCD display shall be shown consecutively and continuously one after another. The display shall be automated i.e. no external means shall be required to see the display. Each display shall last for at least 5 (five) sec. |
| | b) Meter Electronic Circuit biasing voltage shall have to be ensured from each phase to phase and each phase to neutral and minimum basing voltage 40V. |
| Meter Sealing | : The Energy meter body will be hermetically sealed or ultrasonically welded to avoid unauthorized opening of meter cover. |
| Communication port | : The meter must be provided with a suitable communication port to allow down loading of desired information stored in the meter to a PC via hand held data logger as per IEC 1107 or equivalent standard. |
| Remote Communication | : The meter shall be equipped with external GSM-GPRS Modem, which will be able to interface with RS232/RS485 for data communication with the central server from meters, having all accessories like power supply adapter, necessary connecting cables, antenna with minimum 2.5 meter extension cable, connectors, enclosure box with fixing materials etc. The modem shall be compatible with existing AMR system of BPDB. |

7.1.4.1.W.C TAMPER AND FRAUD PROTECTION FEATURE:

The meter shall have the following features to prevent/detect tamper and fraud:

- **Phase Sequence Reversal:** The meter should work accurately irrespective of phase sequence of supply.
- **Missing Potentials:** The meter shall be capable of detection occurrence of missing potential of one phase or two phase(s), which can happen due to intentional/accidental disconnection of potential link(s).
- **Terminal cover** must have micro-switch provision to monitor unauthorized opening. Opening of terminal cover shall trigger an event to be recorded in the event log memory.
- **Software Access:** Software access for configuration and setting of the meters.

7.1.4.1.W.D TECHNICAL FEATURE

- The body cover and socket / enclosure shall be provided security sealing provisions to prevent unauthorized access to the internal meter works.
- The meter shall be provided with connection diagram.
- The data access should be protected by minimum 3(three) steps software password in meter.
- The meter shall have provision of phase to phase and each phase to neutral biasing.
- The meter shall have minimum biasing voltage of 40V.
- The meter and socket/enclosure shall have provision of earthing.
- Meter must operate and accurately register demand and energy when service voltage is applied across any two of the three input terminals or when service voltage is applied from any input terminal to neutral. Meter will continue to operate even the neutral is missing.
- The meter and socket/ enclosure must be the same country of origin other wise the bid will be rejected.
- The registration of KWh (Peak & off-peak) on 3-phase, 4-wire supply for balanced & unbalanced load will be unidirectional. i.e. if one, two or three phase supply is/are reversed, it will take the absolute (kWh-del) + absolute (kWh-rev) and will add them together as total 3-phase KWh.
- The meter shall be equipped with remote GSM & PSTN communication option.
- It has to be ensured that the meter complies IEC61850 for SAS operation. If required, internal/external module as protocol converter can be used for the compatibility with IEC61850

-
- The meter shall have permanently print nameplate distinctly marked with the following in addition to all standard data:
 1. The word “BPDB” and insignia of BPDB.
 2. Voltage and current rating.
 3. Frequency.
 4. Number of element, number of wire and multiplication factor.
 5. Accuracy class.
 6. Year of manufacture.
 7. Serial number.
 8. Name of manufacturer.
 9. Meter constant.

7.1.4.1.W. E Display of measured values/ Meter Display

- The Sequence of LCD display should be user programmable.
- The contrast setting of LCD display should be visible in different lighting environment and distinctly visible in broad daylight.
- The meter should be of displaying time and date, the direction of energy i.e. as import/export or +/-, active tariff and internal fault indicators.
- There should be up to three groups of display to priorities the display. Each showing a programmable function group.

7.1.4.1.W. F Meter Parameterisation Software

- The parameterisation software must run on Windows operating environment.
- The software must be protected by software keys to control duplication and installation.
- The software should have a customizable printing feature by task list.
- The meter must be able to display or record meter ID, Program, Programmer ID, C. T. ratio, V. T. ratio, Total (KWh, KVarh, KVAh, KW, KVar, KVA, P.F); per phase (voltage, current, KW, KVar, KVA, P.F, phase voltage angle, phase current angel); Load profile having minimum 8(eight) Channels data stored in different interval for 90 days.
- Tamper feature: The meter must have Errors & Warnings codes, History log and Event log(minimum 400events) to record date & time of all power outages, demand resets, time change.
- In addition, each software key must bear a unique user ID and that is not transferable to another PC that has different user ID.
- The Meter should be able to display the phasor diagram.
- The software for Time of Use (TOU) shall be compatible to accommodate future tariff and can be customized, if the purchaser changes the tariff .The software shall be compatible with Windows operating system.
- The Meter must be provided with meter passwords to secure communication between meter software and meter having minimum 3(three) access levels.
- The AMR Software have to be compatible with BPDB's existing AMR System. The Tenderer have to develop the total AMR System with exiting and supplied AMR Solution. In this case the tenderer have to provide their meter protocols so that all exiting meters and supplied meters data will be downloaded and managed in a single AMR System.

7.1.4.1.W. G EXTERNAL MODEM WITH ACCESSORIES

GSM/GPRS modem with RS-232/RS-485 ports, meter interfaced power supply, connection cables, antenna with minimum 2.5 meters cable, mounting facilities, enclosure (if necessary). The modems will be capable of GSM and GPRS connectivity simultaneously. For

GSM configuration the AT command will be available and for GPRS communication the APN, reset time, username, password, port number, etc. are configurable. The modem will have the following specification.

Interruption (< 1 ms), RS-232 (at least 1), GPRS class 10, operating band 900/1800, auto reset capability (with phone call, SMS). The modem will be robust, durable and compatible with the employers existing service condition.

7.1.4.1.W.H Manufacturer

All the energy meter shall be supplied from **European Country/ North American Country/Japan/Australia.**

Note: Related software & accessories if required for Energymeters is within the scope of supply.

SECTION: 8

GUARANTEED TECHNICAL PARTICULARS
OF
11kV Incoming AIS Panel

8.01 Guaranteed Technical Particulars of 11KV Indoor Type Vacuum Breaker with Protection, Control & Metering Cubicles

(To be filled up by the Manufacturer in Manufacturer's Letterhead Pad, otherwise the bid shall be rejected)

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|---------|--|-----------------|---|---------------------------------------|
| 1. | Manufacturer's Name & Country of origin | - | To be mentioned | |
| 2. | Manufacturer's Model no. | - | To be mentioned | |
| 3. | System nominal voltage | kV | 11 | |
| 4. | Maximum System Voltage | kV | 12 | |
| 5. | Rated Frequency | Hz | 50 | |
| 6. | Rated normal current : a) Incoming for Power Transformer | A | 1600 | |
| 7. | No. of phase | nos. | 3 | |
| 8. | No. of breaks per phase | nos. | To be mentioned | |
| 9. | Interrupting medium | - | Vacuum | |
| 10. | Manufacturer's name and country of origin of Vacuum Interrupter | - | To be mentioned | |
| 11. | Manufacturer's model no. of vacuum interrupter | - | To be mentioned | |
| 12. | Power Frequency withstand voltage | kV | 28 | |
| 13. | Lightning Impulse withstand voltage on 1.2/50 μ s wave | kVp | 75 | |
| 14. | Emergency overload rating of normal at 20°C ambient | - | To be mentioned | |
| 15. | Duration in any 24 hrs. period | - | To be mentioned | |
| 16. | Busbar Scheme | no. | Single | |
| 17. | Number of Busbar | nos. | 3 | |
| 18. | Temperature Rise of Busbar at rated current | °C | To be mentioned | |
| 19. | Material of Busbar | - | Copper | |
| 20. | Cross-section of Busbar | mm ² | To be mentioned | |
| 21. | Rated normal current of bus bar | A | 1600 | |
| 22. | Bus bar insulation material | - | To be mentioned | |
| 23. | Are floor plates or rails included? | - | To be mentioned | |
| 24. | Overall dimensions of each circuit breaker unit : a) Incomer :- - Height - Width - Depth | mm mm mm | To be mentioned To be mentioned To be mentioned | |
| 25. | Width necessary for breaker withdrawal | mm | To be mentioned | |
| 26. | Rated Short-time withstand Current (Rated short circuit breaking current) for 3 sec. | KA | min 25 | |
| 27. | Rated Peak withstand Current (Rated short circuit making current) | KA | min 62.5 | |
| 28. | Breaking capacity : a) Symmetrical rms b) Asymmetrical rms | KA KA | 25 25 | |
| 29. | Rated duration of short circuit | Sec. | 3sec | |
| 30. | Degrees of protection by enclosures | IP | IP4X | |
| 31. | First pole to clear factor | - | To be mentioned | |
| 32. | Rate transient recovery voltage at 100% rated | KVp | To be mentioned | |

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|-------------------------------|--|-------------------|---|---------------------------------------|
| | short circuit breaking current | | | |
| 33. | Rated line charging breaking current | A | To be mentioned | |
| 34. | Rated cable charging breaking current | A | To be mentioned | |
| 35. | Rated out of phase breaking current | A | To be mentioned | |
| 36. | Is circuit breaker re-strike free? | - | Yes | |
| 37. | No. of tripping coil | nos. | 2 | |
| 38. | Trip coil current | A | To be mentioned | |
| 39. | Trip coil voltage | VDC | 110 | |
| 40. | Is circuit breaker trip free? | - | Yes | |
| 41. | Type of main contact | - | To be mentioned | |
| 42. | Material of contact surface | - | To be mentioned | |
| 43. | Contact resistance | $\mu\Omega$ | To be mentioned | |
| 44. | Does magnetic effect of load current increase contact? | - | To be mentioned | |
| 45. | Length of each break/ phase | mm | To be mentioned | |
| 46. | Length of stroke | mm | To be mentioned | |
| 47. | Weight of circuit breaker complete, without operating mechanism and cubicles | Kg | To be mentioned | |
| 48. | Weight of circuit breaker complete with PCM cubicles as in service | Kg | To be mentioned | |
| 49. | Maximum shock load imposed on floor or foundation when opening under fault condition (state compression or tensions) | N | To be mentioned | |
| OPERATING : | | | | |
| 50. | Operating Sequence | - | To be mentioned | |
| 51. | a) Opening time without current at 100% of rated breaking current b) Braking time c) Closing time | ms cycle ms | To be mentioned To be mentioned To be mentioned | |
| 52. | Maximum arc duration of any duty cycle as per latest revision of relevant IEC. | ms at... % | To be mentioned | |
| 53. | Current at which maximum arc duration occurs (critical current) | A | To be mentioned | |
| 54. | Make time | ms | To be mentioned | |
| 55. | Minimum time for arc extinction to contact remake when adapted for auto re-closing | ms | To be mentioned | |
| 56. | Time from closing of control of switch to completion of closing stroke during fault making. | ms | To be mentioned | |
| 57. | Is there anti-pumping facility? | - | Yes | |
| 58. | Is there electrical and mechanical interlocking? | - | Yes | |
| 59. | Pressure in vacuum tube | bar | To be mentioned | |
| 60. | Guaranteed no. of operation for vacuum interrupter | nos. | To be mentioned | |
| 61. | In normal condition at rated current switching | nos. | To be mentioned | |
| 62. | In short circuit condition i.e. at the short circuit current switching | nos. | ≥ 50 | |
| CONSTRUCTION FEATURE : | | | | |
| 63. | Is an external series break incorporated in the | - | To be mentioned | |

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|---------|--|-----------|------------------------------------|---------------------------------------|
| | breaker? | | | |
| 64. | Is any device used to limit transient recovery voltage? | - | To be mentioned | |
| 65. | Method of closing | - | To be mentioned | |
| 66. | Method of tripping | - | To be mentioned | |
| 67. | Minimum clearance in air : a) between phases b) phase to earth | mm mm | To be mentioned To be mentioned | |
| 68. | Material of tank or chamber | - | To be mentioned | |
| 69. | Material of moving contact tension rod | - | To be mentioned | |
| 70. | Period of time equipment has been in commercial operation | Year s | To be mentioned | |
| 71. | Is removable draw-out type VCB mounted on the lower part of the panel i.e. on floor? | - | To be mentioned | |
| 72. | All meters, protective relays, signaling etc. mounted on the upper part of the panel. | - | To be mentioned | |
| 73. | Rates voltage of spring winding motor for closing. | Vac | 230 | |
| 74. | Materials of all current carrying parts of VCB. | - | Copper | |
| 75. | Name of relevant IEC Standards to be followed in Design, Manufacture, Testing and Performance. | - | To be mentioned | |

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|-------------|--|------------|---|---------------------------------------|
| | PROTECTION | | | |
| 76.0 | OVER CURRENT AND EARTH FAULT PROTECTION WITH IDMT & INSTANTANEOUS FEATURES | | | |
| 76.1 | Manufacture's name & country of relay | - | ABB- (Sweden/ Switzerland/ Finland) / Siemens- (Germany)/ Alstom- (France/UK)/ Schneider- (France/UK) / NR, China/ SEL, USA | |
| 76.2 | Manufacture's model no. | - | To be mentioned | |
| 76.3 | Type of relay | - | Numerical programmable with directional and all necessary features | |
| 76.4 | The Relay shall be IEC 61850 protocol type. | | Yes | |
| 76.5 | Range of timing settings at 10 time CT rating | Sec | To be mentioned | |
| 76.6 | Burden of relay at 10 time CT rating | VA | To be mentioned | |
| 76.7 | Percentage of current setting at which relay will reset | % | To be mentioned | |
| 76.8 | Reset time after removal of 10 time CT rated current for : a) Phase element (100%) b) E/F element (40%) | Sec Sec | To be mentioned To be mentioned | |
| 76.9 | Necessary Binary I/O with the relay (alternately separate BCU will also be accepted) shall be provided for SAS/SCADA operation | | Yes | |
| 76.9 | Trip Relays (Separate trip relay shall be provided) | | | |
| | Manufacturer's Name and Country | | To be mentioned | |
| | Manufacturer's Model/type No. | | To be mentioned | |
| | Operating Times | | <10 | |
| | Self-reset type for O/C, E/F protection | | Yes | |
| 76.10 | Trip Circuit Supervision Relay (Separate relay shall be provided for each trip coil) | | | |
| | Manufacture's name & country of relay | | To be mentioned | |
| | Manufacture's model no. | | To be mentioned | |
| 77.0 | SEPARATE STANDBY EARTH FAULT PROTECTION | | | |

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|-------------|---|------------|---|---------------------------------------|
| 77.1 | Manufacture's name & country | - | ABB- (Sweden/ Switzerland/ Finland) / Siemens- (Germany)/ Alstom- (France/UK)/ Schneider- (France/UK) / NR, China/ SEL USA. | |
| 77.2 | Manufacture's model no. | - | To be mentioned | |
| 77.3 | Type of relay | - | Numerical programmable with all necessary features | |
| 77.4 | Range of current setting : a) Phase element (% of CT rating) b) Earth fault element (% of CT rating) | % % | To be mentioned To be mentioned | |
| 77.5 | Range of timing settings at 10 time CT rating | Sec | To be mentioned | |
| 77.6 | Burden of relay at 10 time CT rating | VA | To be mentioned | |
| 77.7 | Percentage of current setting at which relay will reset | % | To be mentioned | |
| 77.8 | Reset time after removal of 10 time CT rated current for : a) Phase element (100%) b) E/F element (40%) | Sec Sec | To be mentioned To be mentioned | |
| 78 | Control Switch | | | |
| | Manufacture's Name & Country | | Shall be mentioned | |
| | Manufacture's Model/Type No. | | Shall be mentioned | |
| | Separate TNC/Discrepancy switch and Local Remote (L/R) selector switch | | Yes | |
| 79 | Annunciator | | | |
| | Manufacture's Name & Country | | Shall be mentioned | |
| | Manufacture's Model no. | | Shall be mentioned | |
| | Windows | nos. | 12 | |
| | Built in buzzer and buttons for accept, mute, test, reset, etc. | | Yes | |
| D | METERING AND INDICATION FOR TRANSFORMER 11KV INCOMING FEEDER | | | |
| 80.0 | KWh Meter FOR TRANSFORMER 11KV INCOMING FEEDER | | | |

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|-------------|--|------|--|---------------------------------------|
| 80.1 | a) Manufacture's Name | - | To be mentioned | |
| | b) Manufacture's Country | - | European Country, North American Country, Japan, Australia | |
| 80.2 | Manufacture's Model no. | - | To be mentioned | |
| 90.3 | Type of meter | - | Numerical Programmable Multifunction | |
| 80.4 | Class of accuracy | - | 0.2S | |
| 81.0 | INDICATION VOLT METERS & AMMETERS | | | |
| | Manufacturer's Name and Country | - | To be mentioned | |
| | Manufacture's Model no. | - | To be mentioned | |
| | Type of meter | - | Analogue | |
| | Class of Accuracy | - | 1.0 | |
| 82.0 | VOLTMETER WITH SELECTOR SWITCH | | | |
| | Manufacturer's Name and Country | | To be mentioned | |
| | Manufacture's Model no. | | To be mentioned | |
| | Type of meter | | Analogue | |
| | Class of Accuracy | | 1.0 | |
| 83 | Capacitive Voltage Divider (CVD) based Live Line Indicator (LLI) for each panel | | Yes | |
| 84 | The PCM Panel Shall be complied all the technical specification mentioned in Section-7. | | Yes | |

Seal & Signature
of the Manufacturer

Seal & Signature
of the Bidder

8.02 Guaranteed technical particulars of 110v 3x5(6)A, 3-phase, 4-wire, 3-element, solid state indoor type multi tariff programmable meter

(To be filled up by the Manufacturer in Manufacturer's Letterhead Pad, otherwise the bid shall be rejected)

| Sl. No. | Description | Unit | Required Specification | Manufacturer's particulars |
|---------|---|-----------------|---|----------------------------|
| 1 | Reference Standard | | Relevant ANSI / IEC Standard | |
| 2 | Manufacturer's name & address | | Shall be mentioned | |
| 3 | Manufacturer's type & model | | Shall be mentioned | |
| 4 | Construction/connection | | 3-Phase 4-wire solidly grounded neutral | |
| 5 | Installation | | Indoor installation in A socket [for socket type] | |
| 6 | Number of element | | 3 (Three) | |
| 7 | Rated Voltage | Volt | 110V | |
| 8 | Minimum Biasing Voltage | Volt | 40V | |
| 9 | Variation of Frequency | % | ± 2% | |
| 10 | Variation of Voltage | % | + 10, -20% | |
| 11 | Accuracy class | | 0.2S | |
| 12 | Rated Current | | | |
| | i) | Nominal Current | A | = 5 |
| | ii) | Maximum Current | A | ≥ 6 |
| 13 | Resister Type | | LCD Display | |
| 14 | Number of Digits (Integer with Decimal) | Nos. | 5 with 1 (Programmable) | |
| 15 | Starting Current | ma | 0.1% of Nominal Current | |
| 16 | Losses at Nominal Load | Watt | Shall be mentioned | |
| 17 | Meter Constant | Imp./ | Shall be mentioned | |
| 18 | Integration Period | | | 30 (Thirty) Minutes |
| | Resetting Period | | | 1 (one) month |
| | Cumulative MD transfer | | | Built in |
| | Cycle Timing Device | | | Built in |
| 19 | Size of the Digit of Display | E x H in mm | 4 x 8 | |
| 20 | No. of Terminal | Nos. | 10 (Ten) min | |
| 21 | Type of socket and country of origin | | To be mentioned | |
| 22 | Battery Service life and shelf Life (minimum) | Year | 10 (ten) & 15 (fifteen) | |
| 23 | Year of manufacture | | Shall be mentioned | |

| Sl. No. | Description | Unit | Required Specification | Manufacture's particulars (To be filled in) |
|---------|---|--|--|---|
| 24 | List of Recommended spare parts (if any) | any | Shall be mentioned | |
| 25 | Warranty | Year | 3 (three) | |
| 26 | Meter Service Life (Min) | Year | 15 (fifteen) | |
| 27 | Weight of meter | Kg | Shall be mentioned | |
| 28 | Dimensions | mm x mm x mm | Shall be mentioned | |
| 29 | Outlines, Drawings & Leaflets | | Shall be mentioned | |
| 30 | Performance Curve for Balanced & Unbalanced load | | Shall be mentioned | |
| 31 | Meter sealing condition | | Hermetically or Ultrasonic welded | |
| 32 | a) Country of Origin b) Place of Manufacture c) Place of Testing | | Shall be mentioned | |
| 33 | Memory Storage | | Shall be mentioned by putting Yes/ No. | |
| | i) Equipment Identification Code | | | |
| | ii) Security code | | | |
| | iii) Access code | | | |
| | iv) Number of Power Interruption with Date & Time | | | |
| | V Latest Power Failure- Time & Date | | | |
| | Vi Event logs | | | |
| | vii) Cumulative kWh, kVarh (Q ₁ + Q ₄) Reading for previous two months | | | |
| | viii) Load profile with 30 min interval at least 90 days for: | | | |
| | | KWh, kVarh (Q ₁ +Q ₄) | | |
| | Phase Voltage or Vh | | | |
| | Phase Amps or | | | |

| | | | | |
|----|--------------------------|--|--|--|
| | Ah | | | |
| 34 | Communication Facilities | | RE, RS 232, RS 485, RJ45, DLMS/COSEM, GSM-GPRS and Modbus or IEC 61850 with protocol converter | |
| 35 | GSM-GPRS Modem | | Yes | |

Seal & Signature
of the Manufacturer

Seal & Signature
of the Bidder

8.03 Guaranteed Technical Particulars of 11kV Indoor Type Single Phase Current Transformer for regular substation

(To be filled up by the Manufacturer in Manufacturer Letterhead Pad, otherwise the bid shall be rejected.)

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's guaranteed Particulars |
|----------------------------|---|------|---|---------------------------------------|
| FOR PROTECTION & METERING: | | | | |
| 1 | Manufacturer's name & country | - | To be mentioned | |
| 2 | Manufacturer's model no. | - | To be mentioned | |
| 3 | Application | - | Metering & Protection | |
| 4 | Installation | - | Indoor | |
| 5 | Primary Rated Voltage (Phase to Phase) | kV | 11 | |
| 6 | Maximum System Voltage (Phase to Phase) | kV | 12 | |
| 7 | Basic Insulation Level (1.2/50 Micro-sec.) | kV | 75 | |
| 8 | Power Frequency Withstand Voltage (1 Min. 50 Hz). | kV | 28 | |
| Ratio: | | | | |
| | Ratio for Power Transformer incomer | A | 800-1600/5-5-5A | |
| 10 | Type of Winding : | | | |
| | a) Primary | - | Single Winding | |
| | b) Secondary | - | Triple winding (2 protection & 1 measuring) | |
| 11 | Rated output for Incoming panel | | | |
| | a) for measurement | VA | 20 | |
| | b) for Protection | VA | 20 | |
| 12 | Rated output for outgoing panel | | | |
| | a) for measurement | VA | 20 | |
| | b) for Protection | VA | 20 | |
| 13 | Accuracy class | | | |
| | a) for measurement | - | 0.2 | |
| | b) for Protection | | | |
| | - 11kV Transformer Incomer | - | 5P20 | |
| | - 11kV Outgoing/ transformer feeder | - | 5P20 | |
| 14 | Rated short time thermal current, for 3 sec. | KA | 25 | |
| 15 | Current limit factor | A | <10 | |
| 16 | RCT at 75° C | | To be | |

| | | | | |
|-----|---|----------|-----------------------|--|
| | For Measuring Core For Protection Core | mΩ mΩ | mentioned | |
| 17 | Knee point voltage For Measuring Core For Protection Core | V V | To be mentioned | |
| 18 | Extended Current Rating (% of rated current) | % | 120 | |
| 19. | Major insulation | - | Epoxy resin | |
| 20 | Name of relevant IEC Standards to be followed for Design, Manufacture, Testing and Performance. | - | To be mentioned | |
| 21 | Creepage Distance | | Shall be mentioned | |

Seal & Signature of the Manufacturer

Seal & Signature of the Bidder

8.04 Guaranteed Technical Particulars of 11kV **Indoor** Type Single Phase Potential Transformer for regular substation

(To be filled up by the Manufacturer in Manufacturer's Letterhead Pad, otherwise the bid shall be rejected.)

| Sl. No. | Description | Unit | BPDB's Requirement | Manufacturer's Guaranteed Particulars |
|---------|---|-------|---|---------------------------------------|
| 1 | Manufacturer's Name & Country or origin | - | To be mentioned | |
| 2 | Manufacturer's Model No. | - | To be mentioned | |
| | Application | - | Metering & Protection | |
| 3 | Installation | - | Indoor | |
| 4 | Mounting | - | On transformer incoming pane / separate PT panel | |
| 5 | Type | - | Induction Type | |
| 6 | Ratio | V | 11000/ $\sqrt{3}$:110/ $\sqrt{3}$:110/ $\sqrt{3}$ | |
| 7 | Rated Short Circuit Currents | | 25kA, 3Sec | |
| 8 | Rated Burden : | | | |
| | a) for measurement | VA | 20VA | |
| | b) for Protection | VA | 20VA | |
| 9 | Class of accuracy : | | | |
| | a) for measurement | | 0.2 | |
| | b) for Protection | | 3P | |
| 10 | No. of phase | No. | Single phase | |
| 11 | No. of secondary winding | Nos. | To be mentioned | |
| 12 | Creepage distance (min) | mm/KV | 25 | |
| 13 | Total weight | Kg | To be mentioned | |
| 14 | Insulation | - | Epoxy resin | |
| 15 | Name of relevant IEC Standards to be followed for Design, Manufacture, Testing and Performance. | mm/kV | To be mentioned | |

Seal & Signature of the Manufacturer

Seal & Signature of the Bidder

MANUFACTURER'S NAME AND PLACE OF MANUFACTURE & TESTING

| SL. NO. | PARTICULARS | NAME OF MANUFACTURER'S | PALES OF MANUFACTURE | PLACE OF TESTING |
|---------|--|------------------------|----------------------|------------------|
| 1. | 11 KV Indoor Switchgear Cubicles/panel | | | |
| | a) Complete Unit | | | |
| | b) 11KV Vacuum Interrupter | | | |
| | d) KWh Meter | | | |
| | e) Relays | | | |
| | d) Volt & Ampere Meter | | | |

Seal & Signature
of the Manufacturer

Seal & Signature
of the Bidder

STANDARDS

The Bidder shall mention the name of Updated International Standards for the respective equipment.

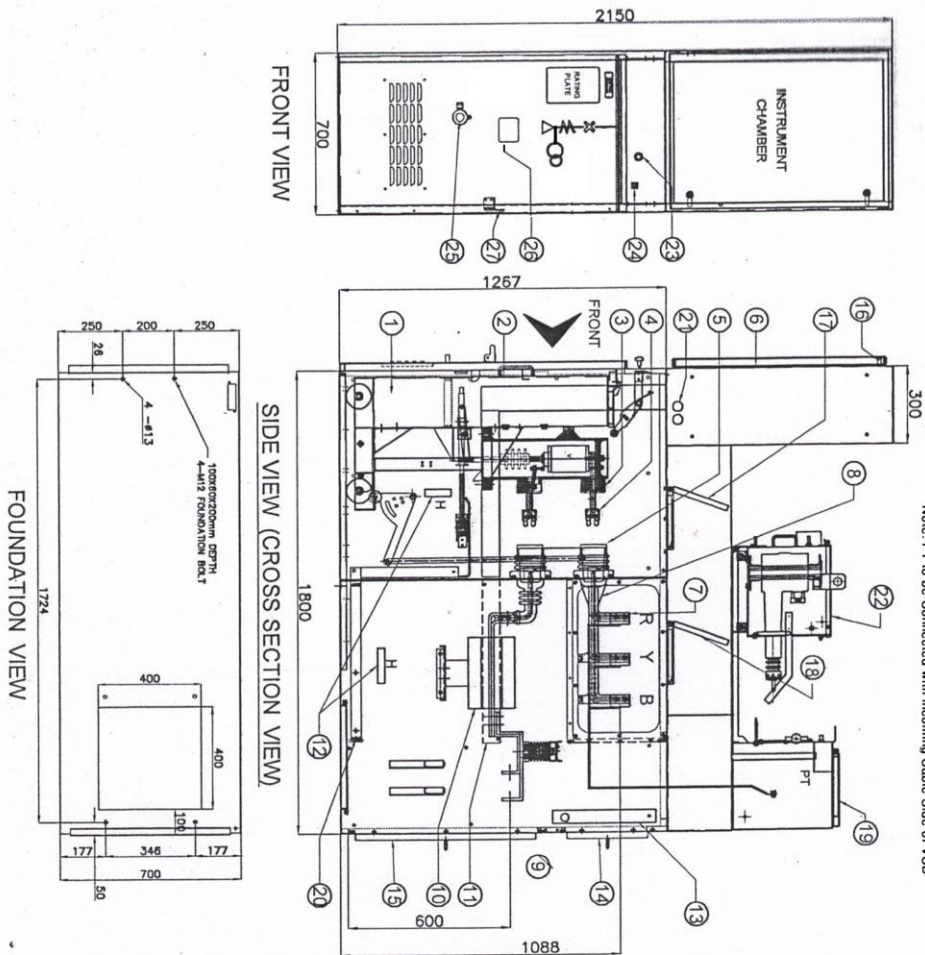
| Sl. No. | Description of Equipment | Standards |
|---------|--|-----------|
| 1. | 11 KV Indoor Switchgear Cubicles/panel | |
| | a) Complete Unit | |
| | b) 11KV Vacuum Interrupter | |
| | d) KWh Meter | |
| | e) Relays | |
| | d) Volt & Ampere Meter | |

Seal & Signature
of the Manufacturer

Seal & Signature
of the Bidder

SECTION: 9

DRAWINGS



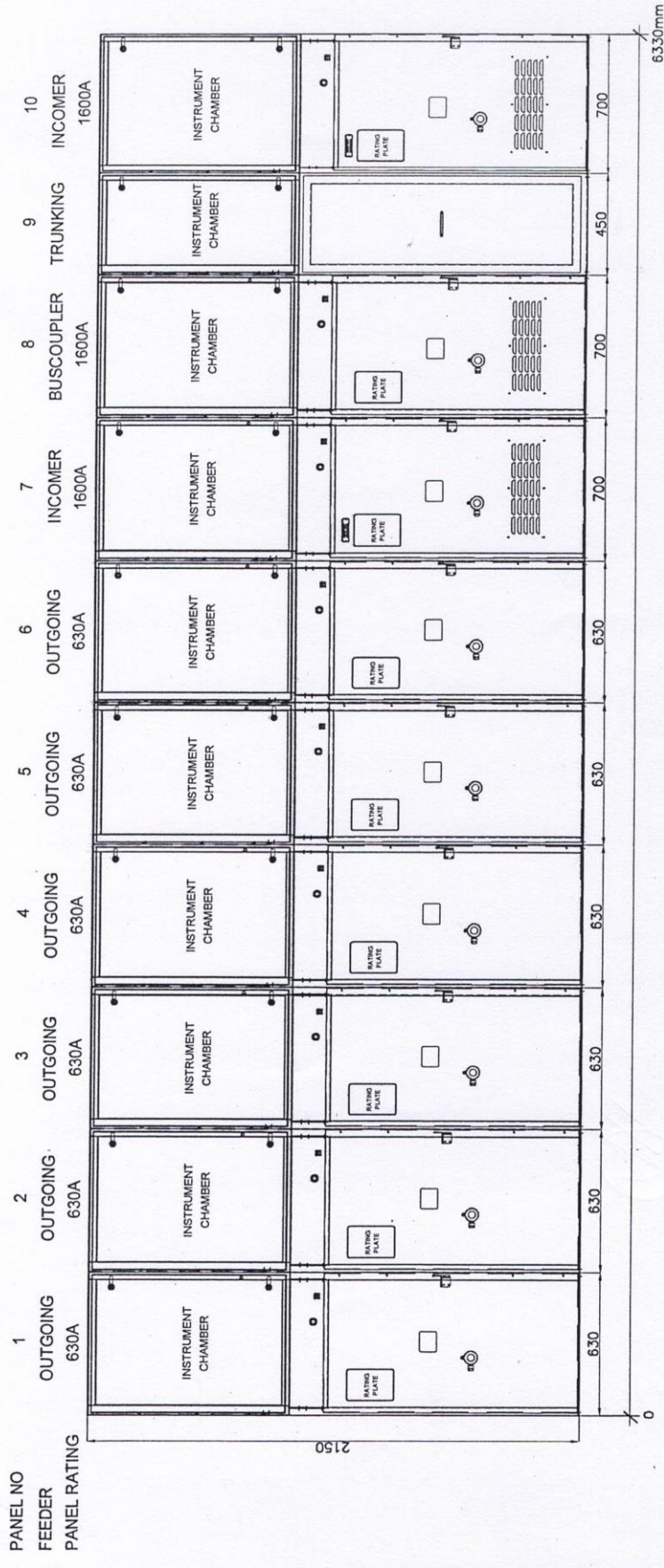
Note: PT to be Connected with Incoming Cable Side of VCB

ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE SPECIFIED.
THIRD ANGLE PROJECTION METHOD

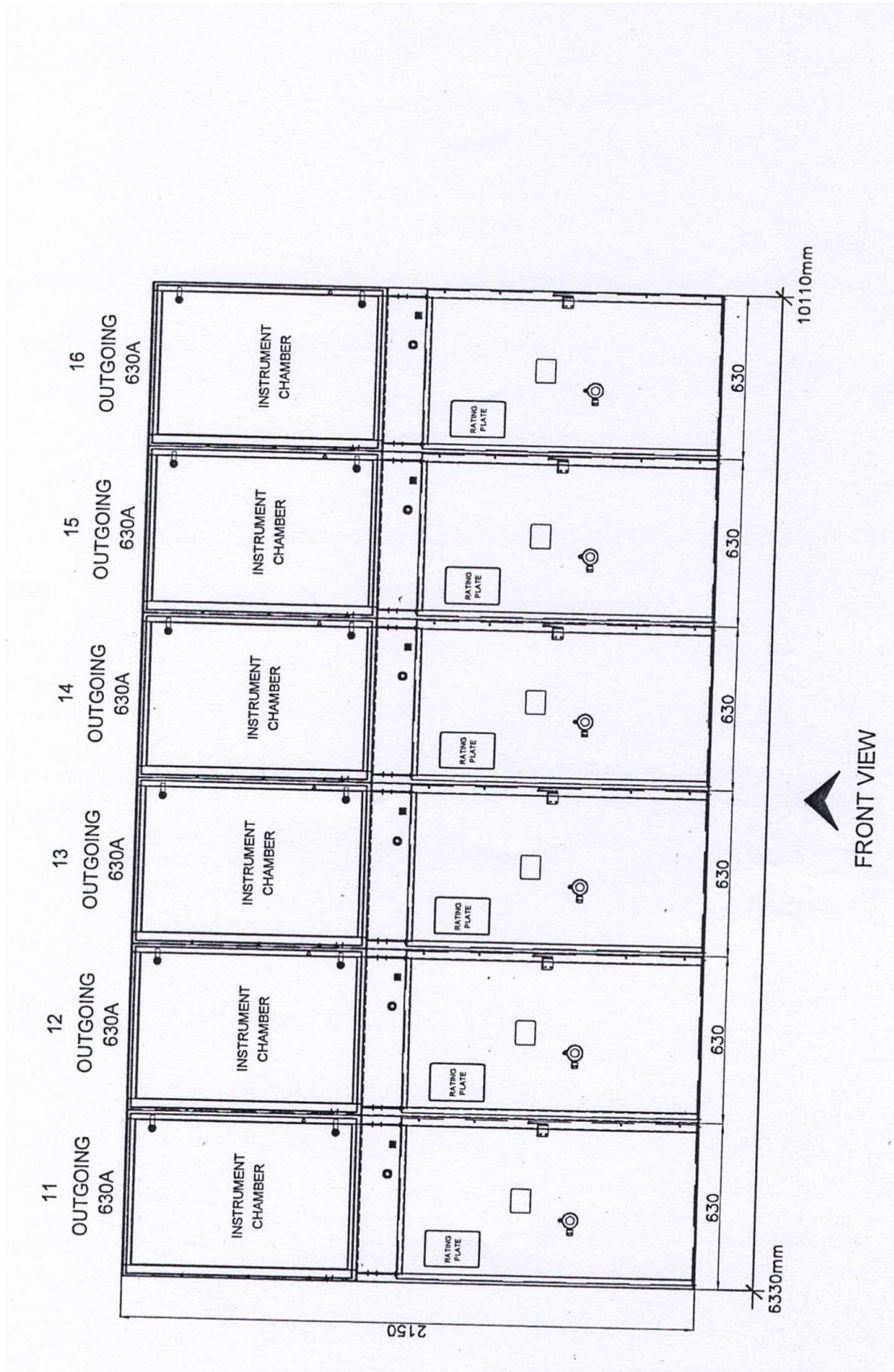
| 27 | DOOR LOCK PROVISION |
|----------|---|
| 26 | INSPECTION WINDOW. |
| 25 | MANUAL VCB RACK IN OUT OPERATION WITH PADLOCK |
| 24 | TEST & SERVICE INDICATOR |
| 23 | EMERGENCY TRIP (MECHANICAL) |
| 22 | DRAWOUT TYPE POTENTIAL TRANSFORMER |
| 21 | INTERPANEL WIRING HOLE |
| 20 | EARTHING BUSBAR |
| 19 | PRESSURE RELIEF FLAP FOR CABLE CHAMBER |
| 18 | PRESSURE RELIEF FLAP FOR BUSBAR CHAMBER |
| 17 | PRESSURE RELIEF FLAP FOR VCB CHAMBER |
| 16 | INSTRUMENT DOOR LIMIT SWITCH |
| 15 | REAR BOTTOM COVER |
| 14 | REAR TOP COVER |
| 13 | LIFTING HOOK |
| 12 | SPACE HEATER(FOR VCB & CABLE CHAMBER) |
| 11 | CT WIRING CHANNEL. |
| 10 | CURRENT TRANSFORMER. |
| 9 | SUPPORT INSULATOR. |
| 8 | SPOUT BUSHING. |
| 7 | INTERPANEL CONNECTION BUS BARS |
| 6 | INSTRUMENT CHAMBER. |
| 5 | SHUTTER ASSEMBLY. |
| 4 | MOVING/ISOLATING CONTACT. |
| 3 | INSULATED SHROUD. |
| 2 | DRAWOUT ENCAPSULATED VCB TROLLEY. |
| 1 | CIRCUIT BREAKER COMPARTMENT. |
| ITEM NO. | DESCRIPTION |

Indicative Drawing

ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE SPECIFIED.
THIRD ANGLE PROJECTION METHOD



Indicative Drawing



Indicative Drawing

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 Supplier's legal title] for the contract named [insert name of the Goods and related 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 Supplier have signed this Amendment.

[Supplier'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: _____

ACCEPTANCE CERTIFICATE

| | | |
|----|--|---|
| 01 | Procuring Entity Details | |
| | (a) Division | : |
| | (b) Circle/Directorate | : |
| | (c) Zone/Region | : |
| | (d) Others (<i>specify</i>) | : |
| 02 | Name of Supply | : |
| 03 | Contract No | : |
| 04 | Supplier's Legal Title | : |
| 05 | Supplier's Contact Details | : |
| 06 | Supplier's Trade License/Enlistment/Registration Details | : |
| 07 | Reference to NOA with Date | : |
| 08 | Original Contract Price as in NOA | : |
| 09 | Final Contract Price as Delivered | : |
| 10 | Original Contract Period | |
| | (a) Date of Commencement | : |
| | (b) Date of Completion | : |
| 11 | Actual Delivery Period | |
| | (a) Date of Actual Commencement | : |
| | (b) Date of Actual Completion | : |
| 12 | Days/Months Delivery Period Extended | : |
| 13 | Amount of LD for Delayed Delivery | : |
| 14 | Special Note (<i>if any</i>) | : |

Certified that the Goods and related services under the Contract has been delivered 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 Procuring Entity/Engineer-in Charge/Other (*specify*). All defects in the Goods reported during inspection and tests have been duly rectified or replaced.

Name and Signature of the Issuing Authority with Designation

please turn over