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TENDER DOCUMENT

NAME OF WORK: Supply and Installation of ACDB at 132kV Joyma GSS, AEGCL

NIT No: AEGCL/DGM/BONG/T&TC/T-1/2022/112; Dated:23.03.2023

Deputy General Manager Bongaigaon T&T Circle AEGCL, Dhaligaon

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Section -1

Instructions to Bidders

This section specifies the procedures to be followed by Bidders in the preparation and submission of their Bids. Information is also provided on the submission, opening, and evaluation of bids and on the award of contract.

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Section 1 – Instructions to Bidders

- 1.1.0 General
- 1.1.1. Scope of Bid
- 1.1.1.1. In support of the Invitation for Bids indicated in the Bid Data Sheet (BDS), the *Deputy General Manager, Bongaigaon T&T Circle, AEGCL, Dhaligaon* on behalf of *Assam Electricity Grid Corporation Limited (AEGCL)* (hereinafter referred to as "the Purchaser" or "AEGCL"), issues this Bidding Document for the supply of Goods and Related Services incidental thereto as specified in Section 3 (Purchaser's Requirements). The name and identification nos. of this Competitive Bidding are provided in the Bid Data Sheet (BDS) attached as Appendix to ITB-1 of this Section.
- **1.1.1.2.** Unless otherwise stated, throughout this Bidding Document definitions of terms shall be as prescribed in **Section 5** (Special Conditions of Contract).
- 1.1.2. Eligible Bidders
- **1.1.2.1.** Subject to meeting the Qualifying Requirements, a Bidder may be a firm or company. When the bidder is a firm, the names and address of the partners should be indicated and a copy of the certificate of registration with the concerned Registrar of firms should be enclosed with the Bid.
- **1.1.2.2.** When the bidder is a Company, the company registration document along with Memorandum of Association should be submitted.
- **1.1.2.3.** When the bidder is an individual carrying on business in a firm's name, the tender should be submitted by the owner of the firm, who may describe himself as carrying on business in the firm's name.
- 1.1.2.4. Joint Venture (JV) for this work shall not be accepted.
- 1.2.0 Contents of Bidding Document
- 1.2.1. Sections of Bidding Document
- **1.2.1.1.** The Bidding Document consists of following six Sections and should be read in conjunction with any Addenda issued in accordance with ITB *Clause* 1.2.3.
 - Section 1 Instructions to Bidders (ITB) with Appendix-1 and Appendix-2
 - Section 2 Bidding Forms (BDF)
 - Section 3 Purchaser's Requirements (PRQ)
 - Section 4 "General Conditions of Supply and Erection of AEGCL"
 - (This section is supplied separately)
 - Section 5- Special Conditions of Contract (SCC)
 - Section 6 Contract Forms (COF)
- **1.2.1.2.** The completed Section 6 shall constitute "the Contract".
- **1.2.1.3.** The Invitation for Bids issued by the Purchaser is not part of the Bidding Document.
- **1.2.1.4.** The Purchaser is not responsible for the completeness of the Bidding Document and its addenda, if they were not obtained directly from the source stated by the Purchaser in the Invitation for Bids.
- **1.2.1.5.** The Bidder is expected to examine all instructions, forms, terms, and specifications in the Bidding Document. Failure to furnish all information or documentation required by the Bidding Document may result in the rejection of the bid.

1.2.2. Clarification of Bidding Document, Site Visit, Pre-Bid Meeting

1.2.2.1. A prospective Bidder requiring any clarification of the Bidding Document shall contact the Purchaser in writing at the Purchaser's address indicated in the BDS or raise his enquirers during the pre-bid meeting if provided for in accordance with ITB Clause 1.2.2.4. The Purchaser will respond to any request for clarification, provided that such request is received no later than seven (7) days prior to the deadline for submission of bids. The Purchaser's response shall be in writing with copies to all Bidders who have acquired the Bidding Document in accordance with ITB Clause 1.2.1.4, including a description of the inquiry but without identifying its source. Should the Purchaser deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so following the procedure under ITB Clause 1.2.3 and ITB Clause 1.4.2.2.

- **1.2.2.2.** The Bidder is advised to visit and examine the sites where the works are to be carried out and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract for the provision of plant and services. The costs of visiting the sites shall be at the Bidder's own expense.
- **1.2.2.3.** The Bidder and any of its personnel or agents will be granted permission by the Purchaser to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder, its personnel, and agents will release and indemnify the Purchaser and its personnel and agents from and against all liability in respect thereof, and will be responsible for death or personal injury, loss of or damage to property, and any other loss, damage, costs, and expenses incurred as a result of the inspection.
- **1.2.2.4.** The Bidder's designated representative is invited to attend a pre-bid meeting, if provided for in the **BDS**. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.
- **1.2.2.5.** The Bidder is requested, as far as possible, to submit any questions in writing, to reach the Purchaser not later than **one week** before the pre-bid meeting.
- 1.2.2.6. Minutes of the pre-bid meeting, including the text of the queries and clarifications, without identifying the source, and the responses given, together with any responses prepared after the meeting, will be transmitted promptly to all Bidders who have acquired the Bidding Document in accordance with *ITB Clause* 1.2.1.4. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by the Purchaser exclusively through the issue of an Addendum pursuant to *ITB Clause* 1.2.3 and not through the minutes of the pre-bid meeting.
- **1.2.2.7.** Nonattendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.

1.2.3. Amendment of Bidding Document

- **1.2.3.1.** At any time prior to the deadline for submission of bids, the Purchaser may amend the Bidding Document by issuing addenda.
- **1.2.3.2.** Any addendum issued shall be part of the Bidding Document and shall be communicated in writing to all who have obtained the Bidding Document from the Purchaser in accordance with *ITB Clause* 1.2.1.4.
- **1.2.3.3.** To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, the Purchaser may, at its discretion, extend the deadline for the submission of bids, pursuant to *ITB Clause* 1.4.2.2.
- 1.3.0 Preparation of Bids
- 1.3.1. Cost of Bidding

1.3.1.1. The Bidder shall bear all costs associated with the preparation and submission of its Bid, and the Purchaser shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

1.3.2. Language of Bid

1.3.2.1. The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and the Purchaser, shall be written in the English language. Supporting documents and printed literature that are part of the Bid 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 Bid, such translation shall govern.

1.3.3. Documents Comprising the Bid

- **1.3.3.1.** The Bid shall comprise two envelopes submitted simultaneously, one called the '**Technical Bid**' containing the documents listed in *ITB Clause 1.3.3.2* and the other the **Price Bid** containing the documents listed in *ITB Clause 1.3.3.3*, both envelopes must be submitted offline.
- **1.3.3.2.** The Technical Bid submitted by the Bidder shall comprise the following:
 - (a) Letter of Technical Bid;
 - (b) Bid Security, in accordance with *ITB Clause* 1.3.9;
 - (c) Written confirmation authorizing the signatory of the Bid to commit the Bidder, in accordance with *ITB*Clause 1.3.10.1;
 - (d) Documentary evidence in accordance with *ITB Clause 1.3.6* establishing the Bidder's eligibility and qualifications to perform the contract if its Bid is accepted;
 - (e) Documentary evidence establishing in accordance with *ITB Clause* 1.3.6 that the plant and services offered by the Bidder conform to the Bidding Document;
 - (f) Documents as called for in *ITB Clauses*1.1.2.1, 1.1.2.2, and1.1.2.3;
 - (g) Any other document required in the **BDS**.
- **1.3.3.3.** The Price Bid submitted by the Bidder shall comprise the following:
 - (a) Letter of Price Bid;
 - (b) Completed schedules as required, including Price Schedules, in accordance with *ITB Clauses*1.3.4 and 1.3.7; and
 - (c) any other document required in the BDS

1.3.4. Letter of Bid and Schedules

- **1.3.4.1.** The Letters of Technical Bid and Price Bid, and the Schedules, and all documents listed under *ITB Clause*1.3.3, shall be prepared using the relevant forms furnished in Section 2 (Bidding Forms). The forms must be completed without any alterations to the text, and no substitutes shall be accepted. All blank spaces shall be filled in with the information requested.
- 1.3.5. Documents Establishing the Eligibility and Qualifications of the Bidder
- **1.3.5.1.** To establish its eligibility and qualifications to perform the Contract in accordance with Appendix 2 of ITB (Evaluation and Qualification Criteria), the Bidder shall provide the information requested in the corresponding information sheets included in Section 2 (Bidding Forms).
- 1.3.6. Documents Establishing Conformity of the Goods and Services
- **1.3.6.1.** The documentary evidence of the conformity of the goods and services to the Bidding Document may be in the form of literature, drawings and data, and shall furnish:

(a) a detailed description of the essential technical and performance characteristics of the goods and services, including the functional guarantees of the Goods, in response to the Specification;

(b) a commentary on the Purchaser's Specification and adequate evidence demonstrating the substantial responsiveness of the plant and services to those specifications. Bidders shall note that standards for workmanship, materials and equipment designated by the Purchaser in the Bidding Document are intended to be descriptive (establishing standards of quality and performance) only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalog numbers in its bid, provided that it demonstrates to the Purchaser's satisfaction that the substitutions are substantially equivalent or superior to the standards designated in the Specification.

1.3.7. Bid Prices

- **1.3.7.1.** Unless otherwise specified in the **BDS** and/or Section 3 (Purchaser's Requirements), bidders shall quote for the entire scope of supply and services on a "single responsibility" basis such that the total bid price covers all the Supplier's obligations mentioned in or to be reasonably inferred from the bidding document in respect of the design, manufacture, including procurement, delivery, and completion of the entire scope.
- **1.3.7.2.** Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding document. No deviation in this regard normally, shall be accepted.
- **1.3.7.3.** Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules included in Section 2 (Bidding Forms).
- **1.3.7.4.** In the Schedules, bidders shall give the required details and a breakdown of their prices as called for in these Schedules.
- **1.3.7.5.** The prices shall be either fixed or adjustable as specified in the **BDS**.
 - (a) In the case of Fixed Price, prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected.
 - (b) In the case of Adjustable Price, prices quoted by the Bidder shall be subject to adjustment during performance of the contract to reflect changes in the cost elements such as labor, material, transport and contractor's equipment in accordance with the procedures specified in the corresponding Appendix to the Contract Agreement. A bid submitted with a fixed price quotation will not be rejected, but the price adjustment will be treated as zero. Bidders are required to indicate the source of labor and material indices in the corresponding Form in Section 2 (Bidding Forms).

1.3.8. Period of Validity of Bids

- **1.3.8.1.** Bids shall remain valid for the period specified in the *BDS* after the bid submission deadline date prescribed by the Purchaser. A bid valid for a shorter period *shall be rejected* by the Purchaser as non-responsive.
- 1.3.8.2. In exceptional circumstances, prior to the expiration of the bid validity period, the Purchaser may request Bidders to extend the period of validity of their bids. The request and the responses shall be made in writing. If a bid security is requested in accordance with *ITB Clause* 1.3.9, it shall also be extended for a corresponding period. A Bidder may refuse the request without forfeiting its bid security. A Bidder granting the request shall not be required or permitted to modify its bid.

1.3.9. Bid Security

1.3.9.1. All bids must be accompanied by a bid security amounting to ₹13,500 (Rupees Thirteen Thousand and Five Hundred) only in the form of Demand Draft from any Nationalized Bank payable at Guwahati in favor of Deputy General Manager, Bongaigaon T&T Circle, AEGCL, Dhaligaon.

- **1.3.9.2.** Bids not complying with *ITB Clause***1.3.9.1**, *shall be rejected* by the Purchaser as *non-responsive*.
- **1.3.9.3.** The bid security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract and furnished the required performance security.
- **1.3.9.4.** The bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security pursuant to *ITB Clause*1.6.4.
- **1.3.9.5.** The bid security may be forfeited:
 - (a) if a Bidder withdraws its bid during the period of bid validity specified by the Bidder on the Letter of Bid Form, except as provided in *ITB Clause*1.3.8.2or
 - (b) if the successful Bidder fails to:
 - (i) Sign the Contract in accordance with *ITB Clause*1.6.1; or
 - (ii) Furnish a performance security in accordance with *ITB Clause*1.6.2.

1.3.10. Format and Signing of Bid

- **1.3.10.1.** The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid comprising the Bid as described in *ITB Clause*1.3.3
- 1.3.10.2. The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the BDS and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the bid where entries or amendments have been made shall be signed or initialized by the person signing the bid.
- **1.3.10.3.** Any interrelations, erasures, or overwriting shall be valid only if they are signed or initialised by the person signing the bid.

1.4.0 Submission and Opening of Bids

1.4.1. Submission of Bids

- **1.4.1.1.** The Technical as well as Price Bid should be submitted by hand only at the office of the DGM, Bongaigaon T&T Circle, AEGCL, Dhaligaon.
- **1.4.1.2.** For Technical bid, all forms and supporting documents as required by ITB Clause 1.3.2 and duly signed and stamped as per ITB Clause 1.3.10 are to be submitted by hand at the office of the DGM, Bongaigaon T&T Circle, AEGCL, Dhaligaon.
- **1.4.1.3.** The Price Bid must be submitted in the Price Schedule as provided in the BDS.

1.4.2. Deadline for Submission of Bids

- 1.4.2.1. Bids shall be received **OFFLINE** only on or before the date and time indicated in the **BDS**.
- **1.4.2.2.** The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document in accordance with *ITB Clause*1.2.3, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

1.4.3. Late Bids

1.4.3.1. Any bid submitted *after the due date and time* will be rejected without any prejudice. Bidders are advised to submit their bids well in advance of the deadline for submission of bids to avoid any last-minute difficulties.

1.4.4. Withdrawal, Substitution, and Modification of Bids

1.4.4.1. Modification of bids shall be allowed any time before the deadline for Bid Submission. A bidder may withdraw its bid, by sending a written notice duly signed by an authorized representative and shall include a copy of the authorization in accordance with *ITB Clause*1.3.10.1, Notices must be received by the purchaser prior to the deadline prescribed for submission of bids, in accordance with *ITB Clause* 1.4.2.

1.4.4.2. No bid may be withdrawn, substituted, or modified in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the Bidder on the Letter of Technical Bid or any extension thereof.

1.4.5. Bid Opening

- 1.4.5.1. The Purchaser shall conduct the opening of Technical Bids at the address, date and time specified in the BDS. The Bid Opening Committee shall open the bids received offline in the presence of Bidders` designated representatives who choose to attend. The Price Bids will remain unopened until the specified time of their opening.
- **1.4.5.2.** First, physical envelopes marked "WITHDRAWAL" shall be opened and read out and the corresponding bid shall not be considered/ rejected with comments. No bid withdrawal shall be permitted unless the corresponding withdrawal notice contains a valid authorization to request the withdrawal duly signed by an authorized representative and is read out at bid opening.
- **1.4.5.3.** All the Technical Bids shall be opened one at a time, and the following read out and recorded
 - a. the name of the Bidder;
 - b. the presence of a Bid Security, if required; and
 - c. any other details as the Purchaser may consider appropriate.

Only Technical Bids and alternative Technical Bids read out and recorded at bid opening shall be considered for evaluation. No bid shall be rejected at the opening of Technical Bids except for withdrawn bids.

- **1.4.5.4.** The Purchaser shall prepare a record of the opening of Technical Bids that shall include, as a minimum: the name of the Bidder and whether there is a withdrawal and alternate proposals and the presence or absence of a bid security or a bid securing declaration, if one was required. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record
- **1.4.5.5.** At the end of the evaluation of the Technical Bids, the Purchaser will invite bidders who have submitted substantially responsive Technical Bids and who have been determined as being qualified for award to attend the opening of the Price Bids. The date, time, and location of the opening of Price Bids will be advised in writing by the Purchaser. Bidders shall be given reasonable notice of the opening of Price Bids.
- **1.4.5.6.** The Purchaser shall conduct the opening of Price Bids of all Bidders who submitted substantially responsive Technical Bids, in the presence of Bidders` representatives who choose to attend at the address, date and time specified by the Purchaser. The Bidder's representatives who are present shall be requested to sign a register evidencing their attendance.
- **1.4.5.7.** All the Price Bids shall be opened one at a time and the following read out and recorded:
 - a) the name of the Bidder;
 - b) the Bid Prices, including any discounts and alternative offers; and
 - c) any other details as the Purchaser may consider appropriate.

Only Bid Prices and discounts read out and recorded during the opening of Price Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Price Bids.

1.4.5.8. The Purchaser shall prepare a record of the opening of Price Bids that shall include, as a minimum: the name of the Bidder, the Bid Price (per lot if applicable), any discounts. The Bidders' representatives who are present shall be requested to sign the record. The omission of a Bidder's signature on the record shall not invalidate the contents and effect of the record

1.5.0 Evaluation and Comparison of Bids

1.5.1. Confidentiality

Information relating to the evaluation of bids and recommendation of contract award shall not be disclosed to Bidders or any other persons not officially concerned with such process.

- **1.5.1.1.** Any attempt by a Bidder to influence the Purchaser in the evaluation of the bids or Contract award decisions may result in the rejection of its bid.
- **1.5.1.2.** Notwithstanding *ITB Clause*1.5.1.1, from the time of bid opening to the time of Contract award, if any Bidder wishes to contact the Purchaser on any matter related to the bidding process, it should do so in writing duly signed by an authorized representative.

1.5.2. Clarification of Bids

- 1.5.2.1. To assist in the examination, evaluation, and comparison of the Technical and Price Bids, and qualification of the Bidders, the Purchaser may, at its discretion, ask any Bidder for a clarification of its bid. Any clarification submitted by a Bidder that is not in response to a request by the Purchaser shall not be considered. The Purchaser's request for clarification and the response shall be in writing. No change in the substance of the Technical Bid or prices in the Price Bid shall be sought, offered, or permitted, except to confirm the correction of arithmetic errors discovered by the Purchaser in the evaluation of the bids, in accordance with *ITB Clause* 1.5.9.
- **1.5.2.2.** If a Bidder does not provide clarifications of its bid by the date and time set in the Purchaser's request for clarification, its bid may be rejected.

1.5.3. Deviations, Reservations, and Omissions

- **1.5.3.1.** During the evaluation of bids, the following definitions apply:
 - a) "Deviation" is a departure from the requirements specified in the Bidding Document;
 - **b)** "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the Bidding Document; and
 - **c)** "Omission" is the failure to submit part or all of the information or documentation required in the Bidding Document.

1.5.4. Preliminary Examination of Technical Bids

- **1.5.4.1.** The Purchaser shall confirm that the following documents and information have been provided in the Technical Bid. If any of these documents or information is missing, the offer **shall be rejected**.
 - a) Letter of Technical Bid;
 - b) written confirmation of authorization to commit the Bidder;
 - c) Bid Security, if applicable;
 - d) Technical Proposal in accordance with ITB 1.3.6.

1.5.4.2. The Purchaser shall examine the Technical Bid to confirm that all documents and technical documentation requested in Sl. No. (d) to (h) of ITB Sub-Clause 1.3.3.2 have been provided, and to determine the completeness of each document submitted. If any of these documents or information is missing, **the Bid may be rejected**.

1.5.5. Responsiveness of Technical Bid

- **1.5.5.1.** The Purchaser's determination of a bid's responsiveness is to be based on the contents of the bid itself, as defined in *ITB Clause*1.3.3.
- **1.5.5.2.** A substantially responsive Technical Bid is one that meets the requirements of the Bidding Document without material deviation, reservation, or omission. A material deviation, reservation, or omission is one that,
 - a) if accepted, would:
 - (i). affect in any substantial way the scope, quality, or performance of the plant and services specified in the Contract; or
 - (ii). Iimit in any substantial way, inconsistent with the Bidding Document, the Purchaser's rights or the Bidder's obligations under the proposed Contract; or
 - **b)** if rectified, would unfairly affect the competitive position of other Bidders presenting substantially responsive bids.
- **1.5.5.3.** The Purchaser shall examine the technical aspects of the Bid submitted in accordance with *ITB Clause*1.3.6, Technical Proposal, in particular to confirm that all requirements of Section 3 (Purchaser's Requirements) have been met without any material deviation or reservation.
- **1.5.5.4.** If a bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

1.5.6. Non-material Nonconformity

- **1.5.6.1.** Provided that a Bid is substantially responsive, the Purchaser may waive any nonconformity in the bid that does not constitute a material deviation, reservation or omission.
- 1.5.6.2. Provided that a Bid is substantially responsive, the Purchaser may request that the Bidder submit the necessary information or documentation, within a reasonable period of time, to rectify nonmaterial non-conformity in the Bid related to documentation requirements. Requesting information or documentation on such non-conformity shall not be related to any aspect of the Price Bid. Failure of the Bidder to comply with the request may result in the rejection of its Bid.
- **1.5.6.3.** Provided that a Bid is substantially responsive, the Purchaser shall rectify nonmaterial nonconformities related to the Bid Price. To this effect, the Bid Price shall be adjusted, for comparison purposes only, to reflect the price of a missing or non-conforming item or component. The adjustment shall be made using the method indicated in *Appendix-2 of ITB (Evaluation and Qualification Criteria*).

1.5.7. Detailed Evaluation of Technical Bids

1.5.7.1. The Purchaser will carry out a detailed technical evaluation of the bids not previously rejected as being substantially non-responsive, in order to determine whether the technical aspects are in compliance with the Bidding Document. In order to reach such a determination, the Purchaser will examine and compare the technical aspects of the bids on the basis of the information supplied by the bidders, taking into account the following:

a) overall completeness and compliance with the Purchaser's Requirements; deviations from the Purchaser's Requirements; conformity of the goods and services offered with specified performance criteria; suitability of the goods and services offered in relation to the environmental and climatic conditions prevailing at the site; and quality, function and operation of any process control concept included in the bid. The bid that does not meet minimum acceptable standards of completeness, consistency and detail will be rejected for non-responsiveness;

- type, quantity and long-term availability of mandatory and recommended spare parts and maintenance services; and
- c) other relevant factors, if any, listed in *Appendix to ITB-2 (Evaluation and Qualification Criteria*).

1.5.8. Eligibility and Qualification of the Bidder

- **1.5.8.1.** The Purchaser shall determine to its satisfaction during the evaluation of Technical Bids whether a Bidder meets the eligibility and qualifying criteria specified in *Appendix to ITB-*2 (Evaluation and Qualification Criteria).
- **1.5.8.2.** The determination shall be based upon an examination of the documentary evidence of the Bidder's qualifications submitted by the Bidder, pursuant to relevant *ITB Clause*.
- 1.5.8.3. An affirmative determination shall be a prerequisite for the opening and evaluation of a Bidder's Price Bid. A negative determination shall result into the disqualification of the Bid, in which event the Purchaser shall not open the Price Bid of the Bidder.

1.5.9. Correction of Arithmetical Errors

- **1.5.9.1.** During the evaluation of Price Bids, the Purchaser shall correct arithmetical errors, if any on the following basis:
 - a) where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly;
 - b) where there are errors between the total(sum) of the amounts of the different Schedule(s) and the amount given in terms of a Grand Total or Grand Summary, as the case may be the former shall prevail and the latter will be corrected accordingly; and
 - c) if there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetical error, in which case the amount in figures shall prevail subject to (a) and (b) above.
- **1.5.9.2.** If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be **disqualified and its bid security may be forfeited**.

1.5.10. Evaluation of Price Bids

- **1.5.10.1.** The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be used.
- **1.5.10.2.** To evaluate a Price Bid, the Purchaser shall consider the following:
 - a) the bid price, including taxes, as quoted in the Price Schedules;
 - b) price adjustment for correction of arithmetical errors in accordance with *ITB Clause*1.5.9.1; and
 - c) the evaluation factors if any indicated in Appendix 2 (Evaluation and Qualification Criteria).
- **1.5.10.3.** If price adjustment is allowed in accordance with *ITB Clause*1.3.7.5, the estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in bid evaluation.

1.5.10.4. The following methodology will be practised for identification and treatment of the Abnormally Low Bids (ALB) in this tender process of AEGCL:

- i. Absolute Approach is to be considered when there is fewer than five substantially responsive bidders and if the bid price is 20% or more below AEGCL's cost estimate then AEGCL's tender evaluation committee should clarify the Bid price with the bidder to determine whether the Bid is Abnormally low.
- ii. Relative approach is to be considered when there are at least 5(five) nos. of substantially responsive bids and the lowest bid price is 20% or more below AEGCL's cost estimate. In this approach, first the Average bid price is determined and then by deducting the standard deviation from the Average bid price, potentially ALB may be determined.
- iii. In case of an ALB, the tender evaluation committee/appropriate authority of the respective tenders shall undertake the following three stage review process which is as below:
 - To identify ALB as per the steps mentioned in SI no. 1.5.10.4.(ii) and 1.5.10.4.(ii), whichever is applicable.
 - To seek and analyse the clarifications from the abnormally low Bidder in terms of resource inputs and pricing, including overheads, contingencies and profit margins. In that respect, the committee may refer to guideline of World Bank, AIIB, ADB etc. prescribed for ALB.
 - To decide whether to accept or reject the bid.

On acceptance of the bid, whether Additional Performance Security is to be imposed on the bidder supplemented by adequate justification.

In case of acceptance of ALB with Additional Performance Security:

- If any abnormally low bid is accepted with additional performance security, it is to be noted that the total performance security should not exceed 20% of the total contract value.
- The additional performance security shall be treated as part of the original performance security and shall be valid for a period similar to that applicable for defect liability period of the contract.

Non-submission of the additional performance security shall constitute sufficient ground for rejection of the bid and similar assessment shall then be initiated for next ranked bidder if that bidder is also identified as ALB.

1.5.11. Comparison of Bids

1.5.11.1. The Purchaser shall compare all substantially responsive Bids to determine the lowest evaluated bid, in accordance with *ITB Clause* 1.5.10.2.

1.5.12. Purchaser's Right to Accept Any Bid, and to Reject Any or All Bids

1.5.12.1. The Purchaser reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to contract award, without thereby incurring any liability to Bidders. In case of annulment, all bids submitted and specifically, bid securities, shall be promptly returned to the Bidders.

1.6.0 Award of Contract

1.6.1. Award Criteria

1.6.1.1. The Purchaser shall award the Contract to the Bidder whose offer has been determined to be the lowest evaluated bid and is substantially responsive to the Bidding Document, provided further that the Bidder is determined to be eligible and qualified to perform the Contract satisfactorily.

1.6.2. Notification of Award

1.6.2.1. Prior to the expiration of the period of bid validity, the Purchaser shall notify the successful Bidder, in writing, that its bid has been accepted. The notification letter (hereinafter and in the Conditions of Contract and Contract Forms called the "Letter of Acceptance") shall specify the sum that the Purchaser will pay the Contractor in consideration of the execution and completion of the plant and services (hereinafter and in the Conditions of Contract and Contract Forms called "the Contract Price").

- **1.6.2.2.** Until a formal contract is prepared and executed, the notification of award shall constitute a binding Contract.
- 1.6.3. Signing of Contract
- **1.6.3.1.** Within **fifteen (15)** days of receipt of the Letter of Acceptance, the successful Bidder shall be required to sign the Contract Agreement.
- **1.6.3.2.** The contract signing shall take place at the premises of the Purchaser.

1.6.4. Performance Security

- 1.6.4.1. Within ten (10) days of the receipt of notification of award from the Purchaser, the successful Bidder shall furnish the performance security in accordance with the conditions of contract, using for that purpose the Performance Security Form included in Appendix 4, Section 6 (Contract Forms), or another form acceptable to the Purchaser.
- **1.6.4.2.** Failure of the successful Bidder to submit the above-mentioned Performance Security or sign the Contract shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security. In that event the Purchaser may award the Contract to the next lowest evaluated Bidder whose offer is substantially responsive and is determined by the Purchaser to be qualified to perform the Contract satisfactorily.

APPENDIX TO ITB – 1

Bid Data Sheet (BDS)

A. Introduction

ITB 1.1.1.1	The Purchaser is: Assam Electricity Grid Corporation Limited.
	The name of the Bid is:
	"Supply and Installation of ACDB at 132kV Joyma GSS, AEGCL"
	Identification Number of the Bid is: AEGCL/DGM/Bong/T&TC/T-1/2022/112

B. Bidding Document

ITB 1.2.2.1	For <u>clarification purposes</u> only, the Purchaser's address is:
	The Deputy General Manager, Bongaigaon T&T Circle, AEGCL City: Dhaligaon District: Chirang State: Assam PIN Code: 783385 Country: India Telephone: +91 3664 241130 / +91 9707042486 Email address: dgmttc.bongaigaon@aegcl.co.in(Subject: ACDB at 132kV Joyma GSS.) Email from the prospective bidder should have "Subject" of the email in the format as stated above.
ITB 1.2.2.4	Purchaser may invite intending Bidders to a pre-bid meeting, if Purchaser feels it is necessary. The date and time of such pre-bid meeting shall be intimated to intending bidders in due course of time.

C. Preparation of Bids

ITB 1.3.3.2(g)	The Bidder shall submit with its Technical Bid the following additional documents: 1. Guaranteed and other Technical Particulars as required in Section 3, 'Purchaser's Requirements' 2. Type Test Certificates 3. Manufacturer's Authorization (if applicable).
ITB 1.3.7.1	Unless otherwise specifically indicated in the Section 3 (Purchaser's Requirements), bidders shall quote for the entire plant and services on 'single responsibility basis'.
ITB 1.3.7.5	The prices quoted by the Bidder shall be FIXED for the entire period of the Contract.
ITB 1.3.8.1	The bid validity period shall be 180 (one hundred eighty) days.
ITB 1.3.9.1	The Bidder shall furnish a bid security in the form of Demand Draft amounting to ₹13,500/- (Rupees Thirteen Thousand and Five Hundred) only.
ITB 1.3.10.1	The written confirmation of authorization to sign on behalf of the Bidder shall consist of a written confirmation of Authorization to sign on behalf of the Bidder shall consist of Notarized Power of Attorney .

ITB 1.4.2.1

For bid submission purposes only,

The Purchaser's address is: The Deputy General Manager, Bongaigaon T&T Circle, AEGCL

City: Dhaligaon District: Chirang State: Assam PIN Code: 783385 Country: India

The deadline for bid submission is

Date: 13.04.2023 Time: 14:00 Hours

ITB 1.4.5.1

The bid opening of Technical Bids shall take place at

Office of the Deputy General Manager, Bongaigaon T&T Circle, AEGCL

City: Dhaligaon District: Chirang State: Assam PIN Code: 783385 Country: India

Date: 18.04.2023 Time: 12:00 Hours

APPENDIX TO ITB - 2 **Evaluation and Qualification Criteria (ECQ)**

This Appendix contains all the criteria that the Purchaser shall use to evaluate bids and qualify Bidders. In accordance with ITB 1.5.7 and ITB 1.5.8, no other methods, criteria and factors shall be used. The Bidder shall provide all the information requested in the forms included in Section 2 (Bidding Forms).

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1. Evaluation

1.1 Technical Evaluation

In addition to the criteria listed in ITB 1.5.7.1 (a) - (c), no other factor shall apply.

1.2 Economic Evaluation

Any adjustments in price that result from the procedures outlined below shall be added, for purposes of comparative evaluation only, to arrive at an "Evaluated Bid Price." Bid prices quoted by bidders shall remain unaltered.

1.2.1 Quantifiable Deviations and Omissions

Quantifiable Deviations and Omissions from the contractual obligations: No financial assessment shall be made by the Purchaser for deviations and omissions from the requirements of the Bidding Document. All such deviations, omissions or reservations s[hall be dealt with in accordance with ITB Clauses 1.5.5.2, 1.5.5.3, 1.5.5.4, 1.5.6.1, 1.5.6.2,1.5.6.3,1.5.7.1(a)and1.5.9.

1.3 Time Schedule

Time to complete Works from the Commencement Date specified in **Article 3** of the Contract Agreement for determining time for completion the works is **6** (Six) months. Bids not meeting the above time schedule shall be rejected. However, no credit will be given for earlier completion.

1.4 Specific additional criteria

In addition to the above, no additional criteria shall be considered for evaluation of Bids.

2 Qualification

Qualification of bidder will be based on meeting the minimum pass / fail criteria specified below

2.1 General

- **2.1.1** The Bidder must satisfy the requirement of ITB Sub-Clause 1.1.2 and shall submit necessary document as per the said Clause.
- 2.1.2 The Bidder may be a manufacturer or an authorized dealer/distributor/agent of the manufacturer. The Bidder who is not a manufacturer of equipment(s) as required for in this bid for execution of the works shall submit a certificate of being an authorised dealer/distributor/agent of the manufacturer. In case, the Bidder is an authorised dealer/distributor/agent, the bidder must submit with the bid, an undertaking using 'Form-MA' (Manufacturer's Authorisation), Section-2 (Bidding Form).
- **2.1.3** A manufacturer already participating through an authorized dealer/distributor/agent, shall not be eligible for participation in this bidding process on his own
- 2.1.4 In case, the bidder is an authorized dealer/distributor/agent and they are not meeting the above condition of financial requirements, they shall qualify provided the manufacturer of the offered product meets the above financial requirements and shall submit necessary supporting documents as above.

2.2 Litigation

Using the 'Form LIT- 1' (Section 4, Bidding Form), bidder shall list all Pending Litigation. All pending litigation shall be treated as resolved against the Bidder and so shall in total not represent more than **50% percent** of the Bidder's net worth.

2.3 Financial Situation

Criteria	Compliance Requirements				Documents
Requirement	Single Entity Joint Venture (Not Applicable)				
		All Partners Combined	Each partner	One partner	Submission Requirements

2.3.1 Historical Financial Performance

Submission of audited balance	Must Meet	Not	Must Meet	Not	Form 'FIN-1'
sheets or other financial	Requirement	Applicable	Requirement	Applicable	With
statements acceptable to the Purchaser, for the last 3 (three)					attachments
years to demonstrate the current					
soundness of the Bidders financial					
position and its prospective long-					
term profitability. As a minimum, a					
Bidder's net worth calculated as					
the difference between total assets					
and total liabilities should be					
positive					

2.3.2 Average Annual Turnover.

Minimum average annual turnover of ₹13,00,000.00 (Rupees Thirteen Lakhs only) Calculated as total certified payments received for contracts in progress or completed, within the	Must Meet Requirement	Must Meet Requirement	25% Minimum	Must meet 40% of the requirement (lead partner)	Form 'FIN- 2'with attachments
last 3 years.					

2.3.3 Financial Resources/Cash Flow

The Bidder(s) must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credit, and other financial means, other than any contractual advance payments to meet the cash-flow requirement, of ₹2,50,000.00 (Rupees Two	Must Meet Requirement	Must Meet Requirement	25% Minimum	Must meet 40% of the requirement (lead partner)	Form 'FIN-3'
Lakhs Fifty Thousand only)					

2.4 Technical Qualifying Requirements

- **2.4.1** The manufacturer must have a production facility in India.
- 2.4.2 The Manufacturer must have at least 5 (five) years' experience of manufacturing and supplying, erection & commissioning similar rated equipment as on date of bid opening. Using Forms EXP 1 of Section 4 (Bidding Forms) the Bidder must furnish necessary information along with supporting documents (e.g., copy of contracts, performance & completion certificate, etc.) in support of this clause.
- 2.4.3 The Manufacturer of equipment must have designed, manufactured and tested as per IS/IEC or equivalent standard and supplied the equipment and which are in **satisfactory operation for at least last 3 (three) years** as on the date of bid opening. Using Forms EXP 2 of Section 2 (Bidding Forms) the Bidder must furnish necessary information along with supporting documents (e.g., copy of contracts, performance & completion certificate, valid type test reports etc.) in support of this clause.

NOTE: The bidder complying above requirements must submit with his bid the following documents to substantiate the requirements of this clause:

- i. Manufacturer must have production facility in India.
- **ii.** Manufacturer's authorization, using the form provided in Section 2 (Bidding Forms). The bidder is responsible for ensuring that the manufacturer or producer complies with the requirements of bidding document and meets minimum criteria listed above for that item.
- iii. Full type test certificate.
- iv. Manufacturer's experience list.
- v. GTP of the equipment to be supplied.
- vi. Recent performance certificate from past clients. Performance & Completion certificates should not be older than 3 (Three) years on the date of opening of the Technical Bid.

Bidders are free to list more than one Subcontractor against each item of the plant and services. However, necessary documents as mentioned in Clause 2.4.1 and 2.4.2 must be furnished with the bid against each manufacturer/subcontractor. Quoted rates and prices will be deemed to apply to whichever subcontractor is appointed, and no adjustment of the rates and prices will be permitted.

Section - 2

BIDDING FORMS

This Section contains the forms that are to be completed by the Bidder and submitted as part of his Bid.

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6	Manuf	acturer's Authorization	39

Form – 1 Document checklist

SL. No.	Document to be submitted	Submitted(Yes/No)	Name of uploaded pdf
1.	Letter of technical bid(Form-2)		
2.	Notarised Power of attorney for the		
	person signing the tender		
3.	Demand Draft for EMD (Form-3)		
4.	Bidders company/firm registration		
	certificate/certificate of incorporation,		
	Registered JV Agreement (in case		
	bidder is a JV)		
5.	Manufacturer's authorization (Form		
	MA) (Applicable for bidder who is not		
	manufacturer of offered product)		
6.	GST registration		
7.	Filled up Form ELI-1		
8.	Filled up Form LIT		
9.	Filled up Form FIN-1		
10.	Filled up Form FIN-2		
11.	Filled up Form FIN-3		
12.	Filled up Form FIN-4		
13.	Audited Balance sheet for last three		
4.4	years		
14.	Bank solvency certificate/other		
4.5	supporting document		
15.	Filled up Form EXP-1		
16.	Order/Contract copies establishing		
47	supplying offered product in past		
17.	Performance certificate of offered		
40	product		
18.	Document establishing manufacturing		
10	unit details		
19. 20.	GTP and drawings		
	Type test reports		
21.	Completion schedule bar chart		
22.	Additional documents if any		

	1. Letter of Technical Bid
	[Bidder's Letterhead]
	Date:
	Bid Identification No (s):
	:
	:
	:
To:	
We, th	ne undersigned, declare that:
(a)	We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (ITB) 1.2.3;
(b)	We offer to design, manufacture, test and deliver, in conformity with the Bidding Document the following Goods and Related Services:
(c)	Our Bid consisting of the Technical Bid and the Price Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period
Name	
In the	capacity of
Signe	d
Duly a	authorized to sign the Bid for and on behalf of
Date	

2. Letter of Price Bid

	[Bidder's Letterhead]
	Date:
	Bid Identification No:
To:	
We, th	ne undersigned, declare that:
(i).	We have examined and have no reservations to the Bidding Document, including Addenda issued in accordance with Instructions to Bidders (ITB) 1.2.3;
(ii).	We offer to design, manufacture, test and deliver in conformity with the Bidding Document the following Goods and Related Services: ;
(iii).	The total price of our Bid is the sum of:,
(iv).	Discount offered (if any) for (i) Supply (Schedule 1)%, and (ii) Related Services (Schedule 2, F8 I,)%
(v).	Our bid shall be valid for a period of days from the date fixed for the submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
(vi).	If our bid is accepted, we commit to obtain a performance security in accordance with the Bidding Document;
(vii).	We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed; and
(viii).	We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
Name	
In the	capacity of

Siane

Duly authorized to sign the Bid for and on behalf of

Date

3. Price Schedule

PREAMBLE

General

1. The Price Schedules are divided into separate Schedules as follows:

Schedule No. 1: Supply of Goods

Schedule No. 1A: Freight and Insurance of Goods

Schedule No. 2: Installation and related services

2. The entered rates and prices shall be deemed to cover the full scope as specified in the bidding document, including overheads and profit.

3. If bidders are unclear or uncertain as to the scope of any item, they shall seek clarification in accordance with *ITB* 1.2.2 prior to submitting their bid.

Pricing

- 4. Prices shall be filled in indelible ink/ on-line and any alterations necessary due to errors, etc., shall be initialed by the Bidder.
- 5. As specified in the Bid Data Sheet and Special Conditions of Contract, prices shall be fixed and firm for the duration of the Contract, or prices shall be subject to adjustment in accordance with the corresponding Appendix (Price Adjustment) to the Contract Agreement.

Prices given in the Schedules against each item shall be for the scope covered by that item as detailed in Section 6 (Purchaser's Requirements) or elsewhere in the Bidding Document.

Schedule No. 1: Supply of Goods

SI. No. (1)	Item Description (2)	UoM (3)	Qty (4)	Unit Rate (exclusive of taxes) (5)	Total Amount (exclusive of taxes) (6) = (4) x (5)
1	415V, 500A, 3-Ph cubicle type indoor floor mounted, auxiliary service board as per specification comprising of: LVAC board will have two sections, each section will be fed from independent auxiliary transformers. Bus-bar rating: 600A, 25kA for 1 sec, Cu, IP54, 2mm cold rolled / 3mm hot rolled. a) 2 Nos incomer feeders with 500 A TPN MCCB (microprocessor based) b) 2 Nos outgoing feeder with 160 A TPN MCCB (microprocessor based) c) 1 No outgoing feeder with 100 A TPN MCCB d) 6 Nos outgoing feeder with 63 A TPN MCCB e) 6 Nos outgoing feeder with 32 A TPN MCCB	Nos	1		
	Each incomer shall be provided with two core CTs (for metering and protection)				
2	Armored Power Cable (3.5C, 120 Sq.mm.)	Mtrs	80		
	TOTAL				

- 1. All amounts shall be in Rupees (₹)
- 2. Prices shall be exclusive of taxes
- 3. Rates as per GST shall be loaded at the time of evaluation

Schedule No. 1A: Freight and Insurance of Goods

SI. No. (1)	Item Description (2)	UoM (3)	Qty (4)	Unit Rate (exclusive of taxes) (5)	Total Amount (exclusive of taxes) (6) = (4) x (5)
1	415V, 500A, 3-Ph cubicle type indoor floor mounted, auxiliary service board as per specification comprising of: LVAC board will have two sections, each section will be fed from independent auxiliary transformers. Bus-bar rating: 600A, 25kA for 1 sec, Cu, IP54, 2mm cold rolled / 3mm hot rolled. a) 2 Nos incomer feeders with 500 A TPN MCCB (microprocessor based) b) 2 Nos outgoing feeder with 160 A TPN MCCB (microprocessor based) c) 1 No outgoing feeder with 100 A TPN MCCB d) 6 Nos outgoing feeder with 63 A TPN MCCB e) 6 Nos outgoing feeder with 32 A TPN MCCB f) 2 Nos outgoing feeder with 16 A SP MCCB Each incomer shall be provided with two core CTs	Nos	1		
	(for metering and protection)				
2	Armored Power Cable (3.5C, 120 Sq.mm.)	Mtrs	80		
	TOTAL				

- 1. All amounts shall be in Rupees (₹)
- 2. Prices shall be exclusive of taxes
- 3. Rates as per GST shall be loaded at the time of evaluation

Schedule No. 2: Installation and Related services

SI. No. (1)	Item Description (2)	UoM (3)	Qty (4)	Unit Rate (exclusive of taxes) (5)	Total Amount (exclusive of taxes) (6) = (4) x (5)
1	Dismantling of old ACDB panel, dismantling and extraction of damaged power cables from cable trenches	Job	1		
2	Laying and termination of new power cable	Job	1		
3	Erection and commissioning of new ACDB panel	Job	1		
	TOTAL				

- 1. All amounts shall be in Rupees (₹)
- 2. Prices shall be exclusive of taxes
- 3. Rates as per GST shall be loaded at the time of evaluation

Section 2 - Bidding Forms 30 4. Contract Execution Schedule The Bidder shall indicate here his proposed Contract Execution Schedule if the contract is awarded to him. The Schedule shall match with the time for completion specified.

5. Bidders Qualification

To establish its qualifications to perform the contract in accordance with Appendix 2 of ITB (Evaluation and Qualification Criteria) the Bidder shall provide the information requested in the corresponding Information Sheets included hereunder.

5.1 Form ELI - 1: Bidder's Information Sheet

	Bidder's Information	
Bidder's legal name		
Bidder's country of constitution		
Bidder's year of constitution		
Bidder's legal address		
Bidder's authorized representative		
(name, address, telephone numbers, fax numbers, e- mail address)		
Attached are copies of the	following original documents.	
☐ 1. In case of single entity/firm, documents, in accordance with ITB 1.1.2.1.		
☐ 2. In case of single Co	impany, documents, in accordance with ITB 1.1.2.2.	

5.2 Form LIT - Pending Litigation

Each Bidder must fill in this form

Q Pe	Qualification Criteria)			
Year	Matter in Dispute	Value of Pending Claim in Rupees	Value of Pending Claim as a Percentage of Net Worth	

5.3 Form FIN - 1: Financial Situation

Each Bidder must fill in this form

Financial Data for Previous 3 Years [Rupees]		
Year 1:	Year 2:	Year 3:

Information from Balance Sheet

Total Assets		
Total Liabilities		
Net Worth		
Current Assets		
Current Liabilities		

Information from Income Statement

Total Revenues		
Profits Before Taxes		
Profits After Taxes		

- Attached are copies of financial statements (balance sheets including all related notes, and income statements) for the last three years, as indicated above, complying with the following conditions.
 - All such documents reflect the financial situation of the Bidder or partner to a JV, and not sister or parent companies.
 - Historic financial statements must be audited by a certified accountant.
 - Historic financial statements must be complete, including all notes to the financial statements.
 - Historic financial statements must correspond to accounting periods already completed and audited (no statements for partial periods shall be requested or accepted).

5.4 Form FIN - 2: Average Annual Turnover

Each Bidder must fill in this form

Year	Amount
	(Rupees)
	Average Annual Turnover

The information supplied should be the Annual Turnover of the Bidder in terms of the amounts billed to clients for each year for contracts in progress or completed.

5.5 Form FIN – 3: Financial Resources

Specify proposed sources of financing, such as liquid assets, unencumbered real assets, lines of credit, and other financial means, net of current commitments, available to meet the total cash flow demands of the subject contract or contracts as indicated in **Appendix 2 of ITB** (Evaluation and Qualification Criteria) with necessary supporting documents.

Financial Resources								
No.	Source of financing	Amount (Rupees)						
1								
2								
3								

5.6 Form FIN – 4: Financial Requirements for Current Contract Commitments

Bidders (or each Joint Venture partner) should provide information on their current commitments on all contracts that have been awarded, or for which a letter of intent or acceptance has been received, or for contracts approaching completion, but for which an unqualified, full completion certificate has yet to be issued.

Current Contract Commitments									
No.	Name of Contract	Employer's Contact (Address, Tel, Fax)	Contract Completion Date	Outstanding Contract Value (X) ^a	Remaining Contract Period in months (Y) ^b	Monthly Financial Resources Requirement (X/Y)			
1									
2									
3									
4									
	Total M	onthly Finan							

^a Remaining outstanding contract values to be calculated from 14 days prior to the bid submission deadline.

[The availability of Financial Resources of the Bidder shall be assessed as follows:

Total Available Financial Resources from FIN -3 minus the Total Monthly Financial Requirement for Current Contract Commitments (CCC) from FIN -4 must be equal or greater than the Financial Resource Requirement for the Subject Contract as per Clause 2.2.3, Appendix-2 to ITB, to be qualified under the referred ITB Clause].

In case the bidder is a JV, separate filled in forms for each of the JV partners is to be submitted along with the Bid.

b Remaining contract period to be calculated from 14 days prior to bid submission deadline.

5.7 Form EXP – 1: General Experience

Each Bidder must fill in this form

General Experience				
Starting	Ending		Contract Identification and Name	5
Month	Month	Years	Name and Address of Purchaser	Role of Bidder
Year	Year		Brief Description of the Works Executed by the Bidder	Diddei

5.8 Form EXP – 2: Specific Experience

Fill up one (1) form per contract.

Contract of Similar Size and Nature					
Contract No of	Contract Identification				
Award Date		Completion Date			
Role in Contract	□ Contractor		□ Subcontractor		
Total Contract Amount	(Rupees)				
Purchaser's Name Address Telephone/Fax Number E-mail					
Brief Specification of Goods supplied Date of commissioning.					
Attached are copies of the following original documents.					
☐ 1. Type Test Certificates. (Not o	1. Type Test Certificates. (Not older than ten years on the date of Technical Bid opening)				
 Recent performance certificates for satisfactory operation of at least three years (Date of issue of certificate shall not older than five years on the date of Technical Bid opening) 					
☐ 3. Copy of the Contract Docume	ent.				

6. Manufacturer's Authorization

[The Bidder, in pursuant to ECQ Clause 2.1.2 (if applicable) shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer. Please refer to notes at bottom]

(Manufacturer's Letterhead)

Date: [insert date (as day, month and year) of Bid Submission]

Bid No.: [insert number of bidding process]

To: [Insert: full name of Purchaser]

WE [insert: name of Manufacturer] who are established and reputable manufacturers of [insert: name and/or description of the Goods] having production facilities at [insert: address of factory] do hereby authorize [insert: name & address of Bidder] (hereinafter, the "Bidder") to submit a bid the purpose of which is to provide the following goods, manufactured by us, and to subsequently negotiate and sign the Contract:

1	
2	
Contract, for the above specified Goods suby the Bidder against this Bidding Docume guarantee and warranty obligations. We always entered into a formal relationship in and warranty / defects liability) we, the fully available to the technical and engined	warranty in accordance with <i>Clause</i> 5.10.0 of the Special Conditions of supporting the Supply of specified Goods and fulfilling the Related Services ents, and duly authorize said Bidder to act on our behalf in fulfilling these also hereby declare that we and, [insert: name of the Bidder in which, during the duration of the Contract (including related services Manufacturer or Producer, will make our technical and engineering staff ering staff of the successful Bidder to assist that Bidder, on a reasonable of all its obligations to the Purchaser under the Contract.
Signed:	
Date:	
In the capacity of [insert: title of position a person having the power of attorney	on or other appropriate designation] (and this should be signed by y to legally bind the manufacturer).
Date:	
Place:	
	(Signature)
	(Printed Name)
	(Designation)
	(Common Seal)

Notes:

1. The letter of Undertaking should be on the letterhead of the Manufacturer and should be signed by a person competent and having **Power of Attorney to sign on behalf of the Manufacturer** (to be attached with this MA) to legally bind the Manufacturer. It shall be included by the bidder in its bid.

2. Above undertaking shall be registered or notarized so as to be legally enforceable.

Section - 3

Purchaser's Requirements

(This Section contains the Technical Requirements and supplementary information that describe the Goods and Related Services)

Section 3

Purchaser's Requirements

3.1.0 Scope of Works

The brief description of the scope covered under this bidding document is furnished below:

- Design, engineering, manufacture, assembly and testing at manufacturer's works of ACDB.
- Loading at manufacturer's works, transportation and delivery at specified Substation, including unloading
- It is also the responsibility of the Supplier to obtain any road permits and any other permits or licenses as may be required to execute the works.
- Dismantling of existing ACDB panel including extraction of power cables from trenches as specified.
- Erection, Testing and commissioning of new ACDB panel including laying and termination of power cables.

3.2.0 Supplier to Inform Himself Fully

- 3.2.1 The supplier should ensure that he has examined the Specifications and Schedules as brought out in this Section as well as other Sections of The Bidding document and has satisfied himself as to all the conditions and circumstances affecting the contract price and fixed his price according to his own views on these matters and acknowledge that no additional allowances except as otherwise provided therein will be levied.
- 3.2.2 The Purchaser shall not be responsible for any misunderstanding or incorrect information obtained by the contractor other than information given to the contractor in writing by the Employer.

3.3.0 Service Conditions

3.3.1 The plant and materials supplied shall be suitable for operation under the following climatic and other conditions:

a) Peak ambient day temperature in still air : 45°C
b) Minimum night temperatures : 0°C
c) Reference ambient day temperature : 45°C
d) Relative Humidity a) Maximum : 100 %
b) Minimum : 10 %

e) Altitude : Below1000 M above MSL f) Maximum wind pressure : As per IS: 802 latest code. g) Seismic Intensity : ZONE-V as per IS 1893.

i) Design Temperature of the equipment : 50°C

3.4.0 Conformity with Indian Electricity Rules & Other Local Regulations

- 3.4.1. The Supplier shall note that all substation works shall comply with the latest provisions of Indian Electricity Rules and with any other regulations. Local authorities concerned in the administration of the rules and regulation relating to such works shall be consulted, if necessary, about the rules and regulations that may be applicable.
- 3.4.3. All registration and statutory inspection fees, if any, in respect of his work pursuant to this Contract shall be to the account of the Contractor.

3.5.0 Standards

- 3.5.1. The equipment covered under this bidding document shall, unless otherwise stated be designed, constructed and tested in accordance with the latest revisions of relevant Indian Standards and shall conform to the regulations of local statutory authorities.
- 3.5.2. In case of any conflict between the standards and this specification, this specification shall govern.
- 3.5.3. Equipment conforming to other international or authoritative Standards which ensure equivalent or better performance than that specified under Clause 3.5.1 above shall also be accepted. In that case relevant extracts of the same shall be forwarded with the bid.

3.6.0 Engineering Data

- 3.6.1 The furnishing of engineering data by the supplier shall be in accordance with the Bidding Document. The review of these data by the Purchaser will cover only general conformance of the data to the specifications and not a thorough review of all dimensions, quantities and details of the materials, or items indicated or the accuracy of the information submitted. This review by the Purchaser shall not be considered by the supplier as limiting any of his responsibilities and liabilities for mistakes and deviations from the requirements, specified under these specifications.
- 3.6.2 All engineering data submitted by the supplier after review by the Purchaser shall or part of the contract document.

3.7.0 Drawings and Documents for Approval

- 3.7.1 All drawings submitted by the Supplier including those submitted at the time of Bid shall be with sufficient detail to indicate the type, size, arrangement, dimensions, material description, Bill of Materials, weight of each component break-up for packing and shipment, fixing arrangement required, the dimensions required for installation and any other information specifically requested in these specifications.
- 3.7.2 Each drawing submitted by the Supplier shall be clearly marked with the name of the Purchaser, the specification title, the specification number and the name of the Project. All titles, noting, markings and writings on the drawing shall be in English. All the dimensions should be to the scale and in S.I. units.
- 3.7.3 The drawings submitted for approval to the Employer shall be in quadruplicate. One print of such drawings shall be returned to the Supplier by the Purchaser marked "approved/approved with corrections". The contractor shall there upon furnish the Purchaser additional prints as may be required along with one reproducible in original of the drawings after incorporating all corrections.
- 3.7.4 All drawings shall be prepared using AutoCAD software version 2000 or later only. Drawings, which are not compatible to AutoCAD software version 2000 or later, shall not be acceptable. After final approval all the drawings shall be submitted to the Purchaser in soft copy format (mailed to official email as confirmed by the Employer or in USB devices)

3.8.0 Final Drawings and Documents

3.8.1 The successful Supplier shall require providing following drawings and documents for each bay constructed in printed form:

(a) Instruction manuals of all equipment in three (3) copies.

These instruction manuals shall generally consist of-

- (i) Operation Manuals,
- (ii) Maintenance Manuals and
- (iii) Spare Parts Bulletins.
- (c) Copies of routine test reports (in triplicate) of relevant equipment.
- (d) Final Guaranteed and Other technical particulars of relevant equipment.
- 3.8.2 In addition to the above the Contractor shall provide five (5) sets of all the drawings and documents to Purchasser in printed form for his reference and record.

3.9.0 Quality Assurance, Inspection & Testing

- 3.9.1 To ensure that the supply of manufactured equipment(s) and services under the scope of this Contract whether manufactured or performed within the Contractor's works or at his Sub Contractor's premises or at site or at any other place of work are in accordance with the specifications, the Contractor shall adopt suitable quality assurance programme to control such activities at all points necessary. Such programme shall be outlined by the Contractor and shall be finally accepted by the Employer after discussions before the award of Contract. A quality assurance programme of the Contractor shall generally cover but not limited to the following:
 - a) His organization structure for the management and implementation of the proposed quality assurance programme.
 - b) Documentation control System.
 - c) Qualification data for Contractors key personnel.
 - d) The procedure for purchases of materials, parts components and selection of sub-Contractors services including vendor analysis, source inspection, incoming raw material inspection, verification of material purchases etc.
 - e) System for shop manufacturing including process controls and fabrication and assembly controls.
 - f) Control of non-conforming items and system for corrective action.
 - g) Control of calibration and testing of measuring and testing equipment.
 - h) Inspection and test procedure for manufacture.
 - i) System for indication and appraisal of inspection status.
- j) System for quality audits.
- k) System for authorizing release of manufactured product to the Employer.
- I) System for maintenance of records.
- m) System for handling storage and delivery and
- n) A quality plan detailing out the specific quality control procedure adopted for controlling the quality characteristics relevant to each item of supply.
 - The Quality plan shall be mutually discussed and approved by the Employer after incorporating necessary corrections by the Contractor as may be required.

3.9.2 Quality Assurance Documents

The Contractor shall be required to submit all the Quality Assurance Documents as stipulated in the Quality Plan at the time of Purchasers inspection of equipment/material.

The Purchaser or his duly authorized representatives reserves the right to carry out Quality Audit and quality surveillance of the systems and procedures of the Contractors/his vendors Quality Management and Control Activities.

3.10.0 Purchaser's Supervision

3.10.1 To eliminate delays and avoid disputes and litigation it is agreed between the parties to the Contract that all matters and questions shall be resolved in accordance with the provisions of this document.

- 3.10.2 The manufacturing of the product shall be carried out in accordance with the specifications. The scope of the duties of the Purchaser, pursuant to the contract, will include but not be limited to the following.
 - a. Interpretation of all the terms and conditions of these Documents and Specifications.
 - b. Review and interpretation of all the Contractors drawings, engineering data etc.
 - c. Witness or authorize his representative to witness tests at the manufacturer's works or at site, or at any place where work is performed under the contract.
 - d. Inspect, accept or reject any equipment, material and work under the Contract, in accordance with the Specifications.
 - e. Issue certificate of acceptance and/or progressive payment and final payment certificate.
 - f. Review and suggest modification and improvement in completion schedules from time to time, and
 - g. Supervise the Quality Assurance Programme implementation at all stages of the works.

3.10.3 Inspection and Inspection Certificate

- 3.10.3.1 The Purchaser, his duly authorized representative and/or outside inspection agency acting on behalf of the Purchaser shall have, at all reasonable times, access to the premises and works of the Contractor and their sub-contractor(s)/sub-vendors and shall have the right, at the reasonable times, to inspect and examine the materials and workmanship of the product during its manufacture.
- 3.10.3.2 All routine and acceptance tests whether at the premises or works of, the Contractor or of any Sub-Contractor, the Contractor except where otherwise specified shall carry out such tests free of charge. Items such as labour, materials, electricity, fuel, water, stores apparatus and instruments as may be reasonably demanded by the purchaser/inspector or his authorized representative to carry out effectively such tests in accordance with the Contract shall be provided by the Contractor free of charge.
- 3.10.3.3 If desired by the Purchaser, the Contractor shall also carry out type tests as per applicable Standards for which Purchaser shall bear the expenses except in cases where such tests have to be carried out in pursuance to *Clause 3.13.3*. The Contractor is required to quote unit rates of type test charges in a separate Schedule (if such schedule is provided in the Bidding Document) in pursuance to this Clause. However, these type test charges shall not be taken into account in comparing Price Bid.
- 3.10.3.4 The inspection by Purchaser and issue of Inspection Certificate thereon shall in no way limit the liabilities and responsibilities of the Contractor in respect of the agreed Quality Assurance Programme forming a part of the Contract.

3.11.0 Tests

- 3.11.1 The type, acceptance and routine tests and tests during manufacture to be carried-out on the material and equipment shall mean as follows:
 - i) Type Tests shall mean those tests, which are to be carried out to prove the process of manufacture and general conformity of the material to this Specification. These tests shall be carried out on samples prior to commencement of commercial production against the order. The Bidder shall indicate his schedule for carrying out these tests.
- ii) Acceptance Tests shall mean those tests, which are to be carried out on samples taken from each lot offered for predispatch inspection, for the purposes of acceptance of that lot.
- iii) Routine Tests shall mean those tests, which are to be carried out on the material to check requirements, which are likely to vary during production.
- iv) Tests during Manufacture shall mean those tests, which are to be carried out during the process of manufacture and end inspection by the Contractor to ensure the desired quality of the end product to be supplied by him.

- v) The norms and procedure of sampling for these tests will be as per the Quality Assurance Programme to be mutually agreed to by the Contractor and the Purchaser.
- 3.11.2. The standards and norms to which these tests will be carried out are specified in subsequent Sections of this Specification. Where a particular test is a specific requirement of this Specification, the norms and procedure of the test shall be as specified or as mutually agreed to between the Contractor and the Purchaser in the Quality Assurance Programme.
- 3.11.3. For all type and acceptance tests, the acceptance values shall be the values specified in this Specification or guaranteed by the Bidder or applicable Standards, as applicable.

3.12.0 Type Test Reports

- 3.12.1. Materials which have never been tested for critical performance shall not be accepted. In such cases, a promise or agreement by a bidder to have the equipment tested after award of a contract is not acceptable.
- 3.12.2. All Bids must be accompanied by the Type Test Certificates of materials offered (refer Clause 3.13.5 below). Such type test certificates shall be acceptable only if:-
 - (a) Tests are conducted in an independent and well known testing laboratory, or
 - (b) Tests are conducted in manufacturer's own laboratory.
 - (c) In this case (i) the laboratory must have ISO 9000 (or its equivalent) series certification; and Tests have been witnessed by technically qualified representatives of earlier clients or purchaser.
- 3.12.3. Test reports to be acceptable must be related directly to the equipment offered i.e. it is fully identical in design, rating and construction with the equipment for which the type test certificates have been submitted. Test reports for higher class (by capacity/voltage etc.) of equipment are acceptable with commitment to perform the type tests free of any charge on the particular equipment after the award of contract.
- 3.12.4. Type Test Reports older than ten (10) years on the date of Technical bid opening shall not be accepted.
- 3.12.5. Full Type Test Reports of all the equipment(s) as stated in the price scheduled(BOQ) must be submitted along with the Bid.
- 3.12.6. This clause has reference to bid document Clause 1.1, Appendix-2 of ITB, Section-1, 'Evaluation and Qualification Criteria'

3.13.0 Guaranteed Technical Particulars

- 3.13.1 The Guaranteed Technical Particulars of the various items shall be furnished by the Bidders with the Technical Bid in the prescribed Schedules attached in this bidding document. The Bidder shall also furnish any other information as in their opinion is needed to give full description and details to judge the item(s) offered by them.
- 3.13.2 The data furnished in Guaranteed Technical Particulars should be the minimum or maximum value (as per the requirement of the specification) required. A Bidder may guarantee a value more stringent than the specification requirement. However, for testing purpose or from performance point of view, the material shall be considered performed successfully if it achieves the minimum/maximum value required as per the

technical specification. No preference whatsoever shall be given to the bidder offering better/more stringent values than those required as per specification except where stated otherwise.

3.14.0 Materials Handling and Storage

- 3.14.1. All the supplies under the Contract as well as Purchaser supplied items (if any) arriving at site shall be promptly received, unloaded and transported and stored in the stores by the Contractor.
- 3.14.2. Contractor shall be responsible for examining all the shipment and notify the Purchaser immediately of any damage, shortage, discrepancy etc. for the purpose of Purchaser's information only. The Contractor shall submit to the Purchaser every week a report detailing all the receipts during the week. However, the Contractor shall be solely responsible for any shortages or damages in transit, handling and/or in storage and erection at site. Any demurrage, and other such charges claimed by the transporters, railways etc., shall be to the account of the Contractor.
- 3.14.3. The Contractor shall maintain an accurate and exhaustive record-detailing out the list of all items received by him for the purpose of erection and keep such record open for the inspection of the Purchaser.
- 3.14.4. All items shall be handled very carefully to prevent any damage or loss. The materials stored shall be properly protected to prevent damage. The materials from the store shall be moved to the actual location at the appropriate time so as to avoid damage of such materials at Site.
- 3.14.5. All the materials stored in the open or dusty location must be covered with suitable weather-proof and flameproof covering material wherever applicable.
- 3.14.6. The Contractor shall be responsible for making suitable indoor storage facilities, to store all items/materials, which require indoor storage.
- 3.14.7. The Contractor shall have total responsibility for all equipment and materials in his custody, stored, loose, semi-assembled and/or erected by him at site. The contractor shall make suitable security arrangements including employment of security personnel to ensure the protection of all materials, equipment and works from theft, fire, pilferage and any other damages and loss.

3.15.0 TECHNICAL SPECIFICATION OF ACDB PANEL AND CABLE

3.15.1 GENERAL ARRANGEMENT FOR LTAC PANEL

3.15.1.1 GENERAL ARRANGEMENT

The 415 volts L.T.A.C. panels shall be indoor floor mountings sheet metal clad type comprising of combination MCCBs and bus-bar chambers and equipped with circuits and equipment as specified. The different circuits shall be mounted above and below the bus bar chamber to form a suitable arrangement, except that the incomings shall be located at the front and mounted below the bus bar chamber. All equipment shall be suitable for the reception of the cables rising from the ground level. The switchboards shall be so designed as to be readily extensible. Panel shall have LED type phase indication lamps in incoming chamber. The LT CTs of 300/5A (for both the 250 KVA transformers) are to be put in the incomer chamber. One static Energy meter of specifications as 3-ph 4 wire, Voltage – 3x240V and Current 300/5A with LCD display shall be placed above the incomer chamber. The Static Energy meter shall record and display required electrical parameters.

3.15.1.2 BUS BAR

The phase and neutral bus bars shall be of high conductivity Copper of adequate uniform cross section. The current

density shall not be more than 0.8A/mm². The bus bars shall be insulated from the structure by means of durable non-hygroscopic, non-combustible and non-tracking materials. Busbar joints shall be of bolted type. The current rating of bus bar shall not be less than 600A, 25kA for 1sec, IP54, 2mm cold rolled /3mm hot rolled (for both the 250KVA transformers).

3.15.1.3 CONNECTIONS

All the connections for the tee's from the bus bars shall be bolted type and suitable spring washers shall be provided to ensure proper jointing and material of the bolts shall be of suitable metal. All the connections shall be provided with thimbles of suitable rating.

3.15.1.4 EARTHING

Two separate earths shall be run and each and every metallic part of the stand/switches/bus bar chambers shall be earthed at two different places independently. The size of the earthing conductor for the switches and individual parts shall not be less than No. 8 SWG copper conductor and size of the main for earthing shall not be less than No. 3 SWG copper conductor.

3.15.1.5 BUS BAR CHAMBER

The bus bar chamber shall be made out of angle iron of suitable size as specified belowalong with other details:

a) Thickness of sheet steel enclosures, doo	rs, covers
i) Cold Rolled	2mm minimum
ii) Hot Rolled	+2.5mm minimum
b) Degree of Protection	IP-54 as per BS-2817/IEC-144
c) Color of finish grade	
i) Interior	Glossy White
ii) Exterior	Light Grey Semi Glossy shade
d) Earthing bus material size	Copper 25x6 mm
e) Earthing conductor galvanized steel material size	30x6 mm
f) Clearance in air of live parts	
i) Phase to Phase	80mm
ii) Phase to Earth	80mm

3.15.1.6 LABELS

Each switch shall be provided with hard plastic sheet and duly held in boss framed of the size 75x50 mm for the incoming and outgoing feeders. The hard-plastic sheet shall be of white colour and shall be suitably painted to indicate the incoming and outgoing feeders (as per the instructions of site engineer).

3.15.1.7 INTERLOCKING

Interlocks must be provided to ensure that the switch cover cannot be opened when the switch is in the closed position. It should however be possible for competent examiner to override this interlock and operate the switch with enclosure open.

3.15.1.8 FIRE HAZARDS

The switch and its associated apparatus shall be arranged to minimize fire hazards.

3.15.1.9 CLEARANCES

The clearances between phases and between phases and earth shall be as per IS-3072-1975with latest amendments.

3.15.1.10 CONTACTS

All live contacts of the switch shall be adequately shrouded to prevent accidental contact when the equipment is either in the isolated or normal closed position and shall be silver plated of suitable thickness. The fixed contacts of the fuse switch unit shall be fully shrouded with arc resistant material. Material needs to be specified in the tender.

3.15.1.11 RUPTURING CAPACITY

The rupturing capacity of the bus bar switchgear/cartridges shall not be lower than 8 MVA at 415 volts. The individual

fuse switch unit shall be provided in such a way that they can be removed from the front of the switch board for servicing and maintenance.

3.15.1.12 MARKING

All the switchgears shall be clearly marked with the following particulars: -

- a) Reference to the standard.
- b) Rated voltage.
- c) Rated normal current.
- d) Rated making capacity.
- e) Breaking capacity.
- f) Type of fuse/links to be used.
- g) Serial No.
- h) Year of Manufacturing

3.15.1.13 OTHER PARTICULARS

The Bidder should clearly furnish the following information in their offer:

- a) Material and plating of the contacts.
- b) Current density assumed.
- c) Temperature rise under continuous full load over the ambient temp. of 50°C.
- d) Temperature rise under short circuit condition.
- e) Guaranteed Technical particulars as required in Annexure II

3.15.1.14 DETAIL REQUIREMENTS

The 415 Volts, L.T.A.C. Switchgears shall have following circuits and equipment:

- a) <u>INCOMING:</u> Two numbers fitted with following:
- i. Two 500 Amp TPN MCCB and cable glands suitable for 3.5 core, 120 sq.mm. Aluminum armored XLPE cable.
- ii. One voltmeter, 0-500 Volts with selector switch.
- iii. One ammeter, 0-500 Amps with selector switch.
- iv. One K.W.H. meter with connected CT (as stated above)
 - b) OUTGOING:
- i. 2 nos. of 160A TPN MCCB (Microprocessor based)
- ii. 1 no. of 100 A TPN MCCB (Microprocessor based)
- iii. 6 nos. of 63 A TPN MCCB
- iv. 6 nos. of 32 A TPN MCCB
- v. 2 nos. of 16A SP MCB

3.15.2 GENERAL ARRANGEMENT OF XLPE ARMORED CABLES

3.15.2.1 STANDARD

The materials covered under this specification shall comply with the requirements of the latest version of the following standards as amended up to date, except where specified otherwise.

10 7000 (5. 4.1) 4000	Specification for Cross Linked Polyethylene Insulated PVC
IS:7098 (Part-I):1988	sheathed Cables for working Voltage up to & including 1100
(amended up to date)	Volt

IS:8130-1984 (amended up to date)	Specification for Conductors for insulated electric cables and flexible cords
IS:5831-1984 (amended up to date)	PVC insulation & sheath of electric cables
IS: 3975-1970 (amended up to date)	Specification for Low Carbon Galvanized steel strip for armoring of Cables.
IS:10810-1984 (amended up to date)	Methods of test for Cables.
IS:10418-1982 (amended up to date)	Cable Drums for Electric Cables.

3.15.2.2 RATED VOLTAGE

The rated voltage of the cables shall be 1100 Volt.

3.15.2.3 CABLE SIZE AND DATA

The standard sizes and technical characteristics for the said Cable of different sizes are shown below:

Cable Size	Nominal thickness of insulation (mm)	Minimum thickness of inner sheath (mm)	Armour (Galvanized Steel Round Wire/Strip)	Nominal dia./ dimension s of Armour (Galvanize d round steel wire)	Maximum DC resistance of Armour of Cable at 20°C (Ohm/KM)	Minimum thickness of outer sheath(mm)
3.5Cx120 sq.mm	1.20	0.5	Galvanized Round Steel Wire	4X3.4X0. 8mm	2.20	1.72

3.15.2.4 CONDUCTORS

For all types of Cable, aluminium conductor shall be H4 grade, stranded in construction with flexibility class 2, complying with the requirements as specified in IS-8130-1984with latest amendments.

The conductor shall be clean & reasonably uniform in size and shape and its surface shall be free from sharp edges.

3.15.2.5 INSULATION

The Conductor shall be provided with XLPE insulation applied by extrusion. The smallest ofmeasured values of thickness of insulation shall not fall below the nominal value by more than 0.5 mm.

The insulation shall be so applied that it fits closely on the conductor (or barrier, if any)and it shall be possible to remove it without damaging the conductor

3.15.2.6 LAYING UP OF CORES

The cores shall be laid up together with a suitable lay, the outermost layer shall have righthand lay and the successive layer shall be laid with opposite lay.

3.15.2.7 INNER SHEATH

Inner sheath should be used for multicore Cables.

For multi core Cables, the laid-up cores shall be provided with Inner Sheath applied by extrusion. It shall be ensured that it is as circular as possible. Material of inner sheath should be PVC Type ST2 as per IS:5831- 1984.

Inner sheath shall be so applied that it fits closely on the laid-up cores and it shall be possible to remove it without damaging the insulation.

3.15.2.8 ARMOURING

Armouring shall be done for the 3.5 core cable. The armour consisting of GI round steel wire shall be applied as closely as practicable. A binder tape may be provided on the armour.

The joints in armour wire shall be made by brazing or welding and the surface irregularities shall be removed. A joint in any wire shall be at least 300 mm from the nearest joint in any other armour wire in the completed cable.

The armouring shall be applied over the inner sheath by galvanized round steel wire.

3.15.2.9 OUTER SHEATH

The outer sheath shall be black & applied by extrusion. It shall be applied over the armouring. Material of outer sheath should be PVC Type ST2 as per IS:5831-1984.

ANNEXURE-I

GUARANTEED TECHNIICAL AND OTHER PARTIICULARS

(To be filled in by Bidder and shall be furnished with the Technical Bid)

1. 415V ACDB

SI. No.	Description	Particulars
1.0	Manufacturer's name and address	
2.0	Detail dimensions of ACDB	
3.0	Thickness of steel sheets proposed to be used	
4.0	Paint used	
5.0	Busbars:	
	a. Standard applicable:	
	b. Material and cross section:	
	c. Current density	
	d. Current rating	
	e. Type of insulator	

6.0	Details of wiring:
	a. Cross-section:
	b. Voltage grade :
	c. Solid or stranded:
	d. Material
7.0	Details of indicating Instruments:
	a. Standards Applicable:
	b. Manufacturer's name and type:
	c. Range:
	d. Accuracy class
8.0	Details of 500A TPN MCCB (Microprocessorbased)
	a. Manufacturer's name: b. Standard applicable c. Rated Voltage d. Rated Continuous current
	d. Rated Continuous current e. Rated Making/Breaking current
9.0	Details of 160A TPN MCCB (Microprocessorbased)
	 a. Manufacturer's name: b. Standard applicable c. Rated Voltage d. Rated Continuous current e. Rated making/breaking current
10.0	Details of 100A TPN MCCB (Microprocessorbased)
	 a. Manufacturer's name: b. Standard applicable c. Rated Voltage d. Rated Continuous current e. Rated making/breaking current
11.0	Details of 63A TPN MCCB
	 a. Manufacturer's name: b. Standard applicable c. Rated Voltage d. Rated Continuous current e. Rated making/breaking current

12.0	Details of 32A TPN MCCB			
	a. Manufacturer's name:			
	b. Standard applicable			
	c. Rated Voltage			
	d. Rated Continuous current			
	e. Rated making/breaking current			
13.0	Details of 16A SP MCB			
	 a. Manufacturer's name: b. Standard applicable c. Rated Voltage d. Rated Continuous current e. Rated making/breaking current 			
14.0	Details of CT operated Static energy meter			
15.0	Details of CTs			

2. 3.5C, 120 Sq.mm. XLPE Power Cable (Armoured)

SI. No.	Description	
1	Manufacturer's Name and Address	
2	Standard Applicable	
3	Colour of Cores	
4	Rated Voltage	
5	Type and category	
6	Continuous current rating when laid in airin ambient temp. of 50° C and of maximum conductor temp. of 90° C of XLPE cable	
7	Short Circuit capacity Short circuit Amp. (Rms) KA for 0.12 sec- Duration at rated cond. Teof 90"C Maximum Conductor temp. allowed for the short circuit duty (deg C)	
8	Conductor Material Grade Cross Sectional Area Nominal (Sq. mm) Form of conductor Direction of lay of standard layers	
9	Conductor resistance (DC) at 20 C per km (ohms)	

Insulation Composition of insulation Nominal thickness of insulation (mm) Minimum thickness of insulation(mm) Inner sheath Material Calculated diameter over the laid-up cores (mm.) Approx. Minimum thickness of sheath(mm) Method of extrusion 12 Armour Type and material of armour Direction of lay of armouring Nominal dimension of round armor Wire with tolerance mm DC resistance at 20 deg C (Ohm/km) 13 Outer Sheath Material Calculated diameter under the sheath (mm) Approx Min. Thickness of sheath (mm) Guarantee value of minimum Oxygen index of outer sheath Guarantee value of minimum temperature index at 21 oxygen index Colour of sheath Colour of sheath Over all diameter of cable (mm) Approx. Thickness of sheath (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Thickness of sheath (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx. Colour of sheath Over all diameter of cable (mm) Approx O	
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Tolerance on overall diameter (mm)	
15 Cable drums	
Minimum standard length per drum forsize of cable (single	
Length) with	
5 % tolerance. (Meter)	
Type and standard for sealing of cable drums	
16 Whether cable offered is ISI	
marked(Yes/No)	
17 Whether Cable offered are suitable for laying as per IS 1255	

Section - 4

General Conditions of Supply and Erection of AEGCL

This Section 'General Conditions of Supply and Erection of AEGCL' is supplied separately and supplementary to Section -5 'Special Conditions of Contract' of this document.

Whenever there is a conflict, the provisions in SCC or the other Sections of this document shall prevail over those in the 'General Conditions of Supply and Erection of AEGCL'.

Section - 5

Special Conditions of Contract

This Section 'SCC' is supplementary to Section -4 'General Conditions of Supply and Erection of AEGCL'.

Whenever there is a conflict, the provisions in this Section shall prevail over those in the 'General Conditions of Supply and Erection of AEGCL'.

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Section - 5 Special Conditions of Contract

5.1.0 **DEFINITION OF TERMS**

"Contract" means the Contract Agreement entered into between the Purchaser and the Supplier, together with the Contract Documents referred to therein; they shall constitute the Contract, and the term "the Contract" shall in all such documents be construed accordingly.

"Contract Documents" means the documents listed in Article 1.1 (Contract Document) of the Contract Agreement (including any amendments thereto).

"Contract Price" means the price payable to the Supplier as specified in the Agreement, subject to such additions and adjustments thereto or deductions therefrom, as may be made pursuant to the Contract.

"Day" means calendar day

"Year" means 365 days.

"Month" means calendar month.

"Party" means the "Purchaser" or the "Supplier", as the context requires.

"Purchaser" means the Assam Electricity Grid Corporation Limited (in short AEGCL) and its assignees.

The "Supplier" shall mean the tenderer / bidder whose tender/ bid has been accepted by the "Purchaser" and shall include the bidder's legal representatives, successors and assignees.

"Goods" means all of the commodities, raw material, machinery and equipment, and/or other materials that the Supplier is required to supply to the Purchaser under the Contract.

"Delivery" means the transfer of the Goods from the Supplier to the Purchaser in accordance with the terms and conditions set forth in the Contract.

"Completion" means the fulfilment of the Related Services by the Supplier in accordance with the terms and conditions set forth in the Contract.

"Related Services" means the services incidental to the supply of the goods, such as insurance, installation, training and initial maintenance and other similar obligations of the Supplier under the Contract.

The "Specification" shall mean the "Purchaser's Requirements".

"Supplier" means the natural person, a company/firm, or a combination of these, whose bid to perform the Contract has been accepted by the Purchaser and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Supplier.

5.2.0 CONTRACT DOCUMENTS

5.2.1. Subject to Article 1.2 (Order of Precedence) of the Contract Agreement, all documents forming part of the Contract (and all parts thereof) are intended to be correlative, complementary and mutually explanatory. The Contract shall be read as a whole.

5.3.0 LEGAL JURISDITCTION

5.3.1. For any litigation arising out of the contract which cannot be resolve through mutual agreement or through Arbitration the honorable Guwahati High Court will have sole jurisdiction of all settlement.

5.4.0 LANGUAGE

5.4.1. The ruling language of the Contract shall be English.

5.5.0 **SCOPE OF SUPPLY**

- 5.5.1. The Goods and Related Services to be supplied shall be as specified in Schedule No. 1 and Schedule No. 2 of Section -2, Bidding Forms.
- 5.5.2. Unless otherwise stipulated in expressly limited in the **Purchaser's Requirements**, 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.

5.6.0 **DELIVERY SCHEDULE**

- 5.6.1. For the purpose of determining the completion time of the Contract, the date on which the Supplier signs the Contract Agreement, shall be taken as Commencement Date of the contract.
- 5.6.2. The Delivery of the Goods and Completion of the Related Services shall be in accordance with the Delivery and Completion Schedule specified in the Article 3 of the Contract Agreement (Contract Forms) or within such extended time to which the Supplier shall be entitled under SCC Clause 5.16.0 hereof.

5.7.0 **CONTRACT PRICE**

- 5.7.1. The Contract Price shall be as specified in Article 2 (Contract Price) of the Contract Agreement.
- 5.7.2. Unless an escalation clause is provided for in the **Article 2 (Contract Price)**, the Contract Price shall be a firm shall not subject to any alteration, except in the event of a Change in the Works or as otherwise provided in the Contract.

5.8.0 TERMS OF PAYMENT

- 5.8.1. The Contract Price shall be paid as specified in subsequent sub-clauses, if not provided in Contract Forms, Section-6.
- 5.8.2. Payment against Goods and F&I (Price Schedule 1& 1A) shall be made as follows: -

A. Progressive payments for supply items:

- (a) Within 60 (sixty) days from the date of submission of the invoice against complete supply, not more than 90% (ninety percent) payment of the total supply invoice would be made along with 100% GST on receipt and acceptance of materials in full and good condition.
- (b) Balance 10% of the supply value would be entertained on completion of total installation and related activities.

B. Progressive payments for installation and allied services:

(a) Within 60 (sixty) days from the date of submission of the invoice against complete erection and related works, 100% (hundred percent) payment would be made alongwith 100% GST upon issue of completion certificate and operational acceptance certificate which should be certified by the consignee.

C. <u>Documents to be submitted for supply and erection work with invoice</u>:

- (a) Unconditional acceptance of the Letter of Award and signed Contract Agreement, by the contractor for supply.
- (b) Detailed Supply Plan approved by AEGCL/Project Execution Chart/Pert chart approved by AEGCL.
- (c) Documentary evidence of dispatch (R/R or receipt of L/R).(For Supply only)
- (d) Contractor's detailed invoice & packing list identifying contents of each shipment/supply. (For Supply only)
- (e) Copy of certificate in respect of payments of State/ Central taxes, duties, levies, etc. have been made against supply of equipment/ materials through contractors/ sub-vendors under the contract, if applicable.

- (f) Certified copy of Insurance Policy/ Insurance Certificate.
- (g) Manufacturer's/ Contractor's Guarantee Certificate of Quality.
- (h) Material Dispatch Clearance Certificate (MDCC)/ Dispatch Instructions (DI) for dispatch of materials from the manufacturer's works. MDCC/DI shall be issued by authorised Officer of AEGCL. (For Supply only)
- (i) Manufacturer's/ Supplier's copy of challan. (for Supply only)
- (j) Copy of testing/ inspection of equipment/ material clearance certificate issued by AEGCL.
- (k) Copy of Goods Receipt Sheet (GRS)/ Materials Received Voucher (MRV)/ Materials Handing Over Voucher (MHOV). (For Supply only)
- (I) Joint Measurement Sheet. (For erection only)
- (m) Labour License, insurance, etc.- (for erection only)
- (n) Payments would be made subject to fulfillment of the following conditions
 - i. Advance copy of invoices/ bills in duplicate with documents/ information as stated under clause (a) to (m) are to be furnished sufficiently in advance.
 - i. Any demurrage charges on account of late intimation and/or delivery of documents by the Bank is to be borne by the supplier.
 - iii. The supplier should intimate the dispatch of each and every consignment to the Purchaser and the Consignee.
 - iv. All Bank charges are to be borne by the supplier.
 - v. Payment through Bank for supply of equipment/ materials, dispatched by Rail would be allowed if required, however the equipment/ materials have to reach at destination/ project site in full and good condition and additional expenditure in any form for this is to be borne by the supplier. A prior approval from appropriate authority of the AEGCL is to be taken in this respect.
 - i. Payment through Bank in respect of material/ equipment dispatched by road transport would be allowed if required, provided that the transport agency is approved by the Banking Association and prior approval thereof is given by the AEGCL's appropriate authority

5.8.3. ADVANCE PAYMENT

No advance payment is applicable for this contract.

5.8.4 Fund Availability

Payment shall be made subject to availability of fund against this specific project.

5.9.0 PERFORMANCE SECURITY DEPOSIT

- 5.9.1. Subject to *Clause* 5.9.2 & 5.9.3 the contractor shall have to deposit to the extent of 10% (ten percent) of the total value of the contract order as performance security (Bank Guarantee), within ten (10) days of receipt of notification of award/LOI and before signing of the Contract Agreement, duly pledged in favor of the Purchaser and such security deposits shall be valid up to 30(thirty) days beyond the warranty period.
- 5.9.2. If required, the supplier on his own has to renew the BG atleast 1(one) month before the date of expiry of the BG; failing which the BG shall be revoked by AEGCL within the claim period without any prior intimation to the contractor.
- 5.9.3. If the supplier fails or neglects to observe, perform any of his obligations under the contract, it will be lawful for the "Purchaser" to forfeit either in full or in part at his absolute discretion, the security deposit furnished by the supplier.
- 5.9.4. No interest shall be payable on such deposits.

5.10.0 WARRANTY

5.10.1. The Supplier/Manufacturer warrants that all the Goods are new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.

- 5.10.2. The Supplier/Manufacturer further warrants that the Goods shall be free from defects arising from any act or omission of the Supplier or arising from design, materials, and workmanship, under normal use in the conditions prevailing in the country of final destination.
- 5.10.3. The term "Period of Warranty" shall mean the period of **60 (sixty) months from the date of supply** issued in pursuance to SCC Clause 5.9.0."
- 5.10.4. If during the Period Warranty any defect should be found, the Purchaser shall give Notice to the Supplier/Manufacture stating the nature of any such defects together with all available evidence thereof, promptly following the discovery thereof. The Purchaser shall afford all reasonable opportunity for the Supplier/Manufacturer to inspect such defects.
- 5.10.5. If having been notified, the Supplier/Manufacturer fails to remedy the defect within a period of 15 (fifteen) days, the Purchaser may, following notice to the Supplier/Manufacturer, proceed to do such work, and the reasonable costs incurred by the Purchaser in connection therewith shall be paid to the Purchaser by the Supplier or may be deducted by the Purchaser from any monies due the Supplier or claimed under the Performance Security.

5.11.0 COPY RIGHT ETC

5.11.1. The Supplier shall indemnify the purchaser against all claims actions, suits and proceedings for the infringement or alleged infringement of any patent, design or copyright protected either in the country of origin or in India by the use of any equipment supplied by the Supplier but such indemnity shall not cost any use of the equipment other than for the purposes indicated by or reasonably to be inferred from the specification.

5.12.0 **QUANTITY VARIATION**

5.12.1. "Purchaser" shall have the right to increase/decrease the ordered quantity by (±) 20% in terms of contract value and the same shall be carried out at the same rates /prices and terms and conditions stipulated in the order except in regard to completion schedule, which shall be mutually agreed upon in case of enhancement of the ordered quantity.

5.13.0 INSPECTION AND TESTING

- 5.13.1. The Supplier shall at its own expense and at no cost to the Purchaser carry out all such tests and/or inspections of the Goods and Related Services as are specified in Sections 3, Purchaser's Requirements.
- 5.13.2. The inspections and tests may generally be conducted on the premises of the Supplier/Manufacture, at point of delivery. Subject to Sub-Clause 5.13.3, The Supplier shall furnish all reasonable facilities and assistance, including access to drawings and production data to the inspectors at no charge to the Purchaser.
- 5.13.3. The Purchaser or its designated representative shall be entitled to attend the tests and/or inspections referred to in SCC Sub-Clause5.13.2, provided that the Purchaser bear all of its own costs and expenses incurred in connection with such attendance including, but not limited to, all travelling and board and lodging expenses.
- 5.13.4. Whenever the Supplier is ready to carry out any such test and/or inspection, the Supplier shall give a reasonable advance notice (not less than 30 days) of such test and/or inspection and of the place and time thereof 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.
- 5.13.5. The Supplier/manufacture shall provide the Purchaser with a certified report of the results of any such test and/or inspection.
- 5.13.6. 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 pursuant to SCC Sub-Clause 5.13.4

- 5.13.7. If it is agreed between the Purchaser and the Supplier that the Purchaser shall not attend the test and/or inspection, then the Supplier may proceed with the test and/or inspection and should provide the Purchaser with a certified report of the results thereof.
- 5.13.8. 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 pursuant to SCC Sub-Clause 5.13.5 & 5.13.7, shall release the Supplier from any warranties or other obligations under the Contract.

5.14.0 **INSURANCE**

- 5.14.1. The "Supplier" shall, have, unless, otherwise specified by the Purchaser, insure the materials through their underwrites at their cost and shall keep it insured against any loss/ damaged/ pilferage in transit, destruction or damage by fire/ flood, without exposure to vagaries of weather or through riot, civil commotion, war or rebellion, for the full value of the materials until the materials are received at the purchaser's destination store.
- 5.14.2. The "Supplier" shall be responsible for safe arrival at destination, unloading and receipt of the materials by the consignee. The Purchaser will discharge consignee's responsibilities only and shall not be responsible for any damage/ loss/ pilferage/ non-delivery by the carriers.
- 5.14.3. In case of any loss/ damage/ pilferage/ non-delivery/ short delivery by carriers etc.; the Supplier shall replace free of cost missing / damaged / lost materials within 30(thirty) days from the receipt of report thereof from the consignee(s) without waiting for settlement of their claims with their carriers / under-writers. Normally, such reports from the consignee(s) to the supplier shall be initiated within a period of 30(thirty) days from the date of receipt of each consignment by him /them.
- 5.14.4. If it is considered necessary that the damage equipment either in part or in full to be sent back to the manufacturer's works for repair, the manufacturers/ suppliers will furnish the Bank Guarantee for the full value of equipment needing repairs and such Bank Guarantee shall remain valid till such time, the equipment are repaired and returned to the consignee in good condition. The to and fro freight, handling and insurance charges in such cases will be borne by the Supplier.
- 5.14.5. Unless, otherwise mutually agreed upon, in case of failure by the Supplier to replenish /make good of the loss /damage /short supplied quantities, within the stipulated period, the Purchaser reserves the right to forfeit the security deposit and/ or adjust any outstanding payment to the "Supplier" with the Purchaser or take any other appropriate action.

5.15.0 FORCE MAJEURE

- 5.15.1. "Force Majeure" shall mean any event beyond the reasonable control of the Purchaser or of the Supplier, as the case may be, and which is unavoidable notwithstanding the reasonable care of the party affected, and shall include, without limitation, the following:
 - (a) war, hostilities or warlike operations whether a state of war be declared or not, invasion, act of foreign enemy and civil war
 - (b) rebellion, revolution, insurrection, mutiny, usurpation of civil or military government, conspiracy, riot, civil commotion and terrorist acts
 - (c) confiscation, nationalization, mobilization, commandeering or requisition by or under the order of any government or de jure or de facto authority or ruler or any other act or failure to act of any local state or national government authority
 - (d) strike, sabotage, lockout, embargo, import restriction, port congestion, lack of usual means of public transportation and communication, industrial dispute, shipwreck, shortage or restriction of power supply, epidemics, quarantine and plague
 - (e) earthquake, landslide, volcanic activity, fire, flood or inundation, tidal wave, typhoon or cyclone, hurricane, storm, lightning, or other inclement weather condition, nuclear and pressure waves or other natural or physical disaster
 - (f) shortage of labor, materials or utilities where caused by circumstances that are themselves Force Majeure.

- 5.15.2. If either party is prevented, hindered or delayed from or in performing any of its obligations under the Contract by an event of Force Majeure, then it shall notify the other in writing of the occurrence of such event and the circumstances thereof within fourteen (14) days after the occurrence of such event.
- 5.15.3. The party who has given such notice shall be excused from the performance or punctual performance of its obligations under the Contract for so long as the relevant event of Force Majeure continues and to the extent that such party's performance is prevented, hindered or delayed. The Time for Completion shall be extended in accordance with SCC Clause 5.16.0.

5.16.0 EXTENSION OF TIME FOR COMPLETION

- 5.16.1. The Time(s) for Completion specified in the Article 3 of the Contract Agreement (Contract Forms) shall be extended if the Supplier is delayed or impeded in the performance of any of its obligations under the Contract by reason of any of the following:
 - (a) any Change in the scope of works by the Purchaser; which justifies extension of completion time as provided in **SCC Clause** 5.12.0; and
 - (b) any occurrence of Force Majeure as provided in **SCC Clause** 5.15.0.
- 5.16.2. Except where otherwise specifically provided in the Contract, the Supplier shall submit to the Purchaser's Representative a notice of a claim for an extension of the Time for Completion, together with particulars of the event or circumstance justifying such extension as soon as reasonably practicable after the commencement of such event or circumstance. As soon as reasonably practicable after receipt of such notice and supporting particulars of the claim, the Purchaser and the Supplier shall agree upon the period of such extension. In the event that the Supplier does not accept the Purchaser's estimate of a fair and reasonable time extension, the Supplier shall be entitled to refer the matter to a Dispute Board, pursuant to SCC Sub-Clause 5.19.0.

5.17.0 LIQUIDATED DAMAGE

- 5.17.1. The Supplier guarantees that it shall attain Completion of the Works within the Time for Completion specified in the Contract Agreement pursuant to SCC Sub-Clause 5.6.2, or within such extended time to which the Supplier shall be entitled under SCC Clause 5.16.0hereof.
- 5.17.2. If the Supplier fails to attain Completion of the Works within the Time for Completion or any extension thereof under SCC Clause 5.16.0, the Supplier shall pay to the Purchaser liquidated damages at the rate of 1 % (one percent) of the total Contract Price per week or part thereof delay. The aggregate amount of such liquidated damages shall in no event exceed 10% (ten percent) of the total contract price.
 - However, the payment of liquidated damages shall not in any way relieve the Supplier from any of its obligations to complete the Works or from any other obligations and liabilities of the Supplier under the Contract.
- 5.17.3. Once the aggregated "Liquidated damage" reaches 10% of the total contract price, the Purchaser may consider following actions:
 - (a) Procure the undelivered material/ equipment and/or complete the balance works from elsewhere giving notice to the supplier and to recover any extra expenditure incurred thereby for having to procure these materials and works at higher price, at the risk and responsibility of the Supplier; or
 - (b) Cancel the contract wholly or in part and to complete the works at the full risk and cost of the Supplier and forfeit the security deposit.
 - (c) Declare it as a "Contractual Failure" and act in accordance with **SCC Clause 5.18.0**.

5.18.0 **CONTRACTUAL FAILURE**

5.18.1. In the event of contractual failure of any respect on the part of the Supplier, the Purchaser shall be entitled to operate security deposit or any deposit or any payment due to supplier irrespective of whether his default relates

to the particular orders or not towards the Purchaser's claim for damages arising out of the failure. In addition, the Purchaser may black-list or bans the "Supplier" or pending enquiry, suspend him or take any other steps considered suitable.

5.19.0 **ARBITRATION**

- 5.19.1. If at any time, any question, disputes or differences whatsoever shall rise between the Purchaser and the Supplier, upon or in relation to or in connection with the contract, either party may forthwith give notice to the other in writing of the existence of such question of dispute or difference and the same shall be referred to the adjudication of three Arbitrators, one to be nominated by the Purchaser the other by the Supplier and the third by the President of the Institution of Engineers, India/ Retired or Sitting Judge not below the status of a retired Judge of High Court of India. If either of the parties fail to appoint its arbitrators within 60(sixty) days after receipt of notice of the appointment of arbitrators then the President of the Institution of Engineers /retired or sitting Judge of India, as the case may be, shall have the power at request of either of the parties, to appoint an Arbitrator. A certified copy of the "President" making such an appointment shall be furnished to both parties
- 5.19.2. The arbitration shall be conducted as per provisions of the Indian Arbitration Act, shall be held at Guwahati or any other place as may be decided by the Purchaser. The decision of the majority of Arbitrators shall be final & binding upon the parties and the expenses of the arbitration shall be paid as may be determined by the Arbitrator. However, any dispute arising out of this contract will first be discussed and settled bilaterally between Purchaser and the Supplier.

Section - 6

Contract Forms

(This Section contains the Letter of Acceptance, the Contract Agreement and Appendices to the Contract Agreement which, once completed, will form the Contract along with the Section 4 and Section 5. The Bidder should note that this Section shall be completed fully at the time of Contract signing)

Section 6 - Contract Forms

This Section contains the Letter of Acceptance, the Contract Agreement and Appendices to the Contract Agreement which, once completed, will form the Contract along with the Section 4 and Section 5. The Bidder should note that this Section shall be completed fully at the time of Contract signing.

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Notification of Award

[AEGCL's letter head]

Letter of Acceptance

Supply of Goods and Related Services

[date]

To: [Name and address of the Supplier]

This is to notify you that your Bid dated [date] for execution of the [name of the Contract and identification number, as given in the Contract Data] for the Contract Price in the aggregate of [amounts in numbers and words] [name of currency] (as per Price Schedule-1), as corrected and modified in accordance with the Instructions to Bidders is hereby accepted, and it is decided to award on you the 'Supply and Installation Contract' covering inter-alia Ex-works supply and Delivery of all Goods including Related Services.

You are requested to furnish the Performance Security within ten (10) days in accordance with the Conditions of Contract, using for that purpose one of the Performance Security Forms included in Section 8 (Contract Forms) of the Bidding Document

[Authorized Signature]

[Name and Title of Signatory]

Assam Electricity Grid Corporation Limited

Attachment: Contract Agreement

1. Contract Agreement

THIS AGREEMENT made the	day of	,,
BETWEEN		
Assam Electricity Grid Corporation Li under the laws of Company Act, 1956 ar Guwahati-781001, Assam and [name of 1956 and having its principal place of busi	and having its registered office at Firs f Supplier], a firm/company incorpor	st Floor, Bijulee Bhawan, Paltanbazar, ated under the laws of Company Act,
WHEREAS AEGCL desires to engage th detailed in the Contract Document, and the and conditions hereinafter appearing.		
NOW IT IS HEREBY AGREED as follows.	S :	

Contract Documents (Reference SCC Clause 5.2.0)

Special Conditions of Contract

General Conditions of Supply and Erection.

This Contract Agreement and the Appendices hereto

The following documents shall constitute the Contract between the Purchaser and the Supplier, and each shall be read and construed as an integral part of the

Letter of Price Bid and Price Schedules submitted by the Supplier

Letter of Technical Bid and Technical Proposal submitted by the Supplier

Article 1

Contract Documents

1.1

Contract:

(a) (b)

(c)

(d)

(e)

- (f) Specification (Purchaser's Requirements)
- (g) Other completed Bidding Forms submitted with the Letters of Technical and Price Bids
- (h) Guaranteed and other Technical Particulars (as submitted with the Bid).
- (i) Any other documents (if necessary) shall be added here

1.2 Order of Precedence (Reference SCC Clause 5.2.0)

In the event of any ambiguity or conflict between the Contract Documents listed above, the order of precedence shall be the order in which the Contract Documents are listed in Article 1.1 (Contract Documents) above.

1.3 **Definitions** (Reference SCC Clause 5.1.0)

Capitalized words and phrases used herein shall have the same meanings as are ascribed to them in the SCC.

Article 2

2.1 **Contract Price** (Reference SCC Clause 5.7.0)

Contract Price and Terms of Payment

The Purchaser hereby agrees to pay to the Supplier the Contract Price in consideration of the performance by the Supplier of its obligations hereunder. The Contract Price shall [. . . amounts in rupees in words . . .], [. . . amounts in figures. . .] as specified in Price Schedule No. 3 (Grand Summary).

The Contract Price is FIXED for entire period of the Contract.

2.2 **Terms of Payment** (Reference SCC Clause 5.8.0)

The terms and procedures of payment according to which the Purchaser will pay the Supplier are given in the Appendix (Terms and Procedures of Payment) hereto.

Article 3

3.1 **Commencement Date** (Reference SCC Clause 5.6.1)

Commencement Date and Completion Time

The Commencement Date upon which the period until the Time for Completion of the total scope under the Contract shall be counted from is the date when this Contract Document is signed.

3.2 **Completion Time** (Reference SCC Clause 5.6.2)

The whole scope under this Contract shall be completed within 6 (Six) Months from Contract Commencement Date with following schedule:

Article 4. Appendices

- 5.1 The Appendices listed in the attached List of Appendices shall be deemed to form an integral part of this Contract Agreement.
- 5.2 Reference in the Contract to any Appendix shall mean the Appendices attached hereto, and the Contract shall be read and construed accordingly.

IN WITNESS WHEREOF the Purchaser and the Supplier have caused this Agreement to be duly executed by their duly authorized representatives the day and year first above written.

Signed by, for and on behalf of the Purchaser

[Signature]
[Title]
in the presence of
[Signature]
[Title]
Signed by, for and on behalf of the Supplier
[Signature]
[Title]
in the presence of
[Signature]
[Title]

APPENDICES

- Appendix 1 Terms and Procedures of Payment
- Appendix 2 Time Schedule
- Appendix 3 Performance Security.
- Appendix 4 Price Schedules.
- Appendix 5 Guaranteed and Other Technical Particulars.

Section 6 - Contract Forms 71 Appendix 1 – Terms and Procedure of Payment The Purchaser shall pay the Supplier In accordance with the provisions of SCC Clause 5.8.0 (Terms of Payment).

72 Section 6 - Contract Forms Appendix 2 - Time Schedule (Bidders shall furnish with bids a construction schedule in form of bar chart. The time schedule should match with the completion time mentioned elsewhere in the Bidding Document)

Appendix 3 - Form of Performance Security

Bank Guarantee

(To be stamped in accordance with Stamp Act)

To:	[name of Purchaser]
	[address of Purchaser]
undertaken, in pursuance of Contract No	[name and address of Supplier/Manufacturer] has dated to execute [name of Supplier/Manufacturer and brief description of Scope]
•	the said Contract that the Supplier/Manufacturer shall furnish you d bank for the sum specified therein as security for compliance with
AND WHEREAS we have agreed to give the Sup	plier/Manufacturer such a Bank Guarantee;
Supplier/Manufacturer, up to a total of Contract Price is payable, and we undertake targument, any sum orsums within the limits	e are the Guarantor and responsible to you, on behalf of the [in words], such sum being payable inthe currencies in which the opay you, upon your first written demand and without cavil or so of [amount of prove or to show grounds or reasons for your demand for the sum
We hereby waive the necessity of your demandius with the demand.	ng the said debt from the Supplier/Manufacturer before presenting
performed there under or of any of the Contract shall in any way release us from any liability under addition or modification.	other modification of the terms of the Contract or of the scope to be documents which may be made between you and the Contractor er this guarantee, and we hereby waive notice of any such change, ys beyond the Warranty Period as per the Contract.
Signatu	ure and Seal of the Guarantor
	Name of Bank
	Address
	Date
1	

An amount is to be inserted by the Guarantor, representing the percentage of the Contract Price specified in the Contract.

Section 6 - Contract Forms 74 Appendix 4 – Price Schedules (Rates should be quoted exclusive of GST)

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	Appendix 5 – Guaranteed and other Technical Partic	culars
	Appointed Guaranteed and early recinition rate.	Juliu. S