

ASSAM ELECTRICITY GRID CORPORATION LIMITED

Regd. Office: 1st floor, Bijulee Bhawan, Paltanbazar, Guwahati-781001

CIN:U40101 AS2003SGC007238

Phone:0361-2739520/web:www.aegcl.co.in



Bidding Document

For

Supply of Panel and Bay equipments for 1(No.) of 33kV Bay for AIDC, Dighalichapari, Sonitpur at 132/33kV Tezpur GSS under Depota division, AEGCL

DEPUTY GENERAL MANAGER

TEZPUR T&T CIRCLE

AEGCL, TEZPUR-784154

Tender Cost: ₹1000.00

EMD: ₹ 16,200.00

For & on behalf of the **Managing Director, AEGCL, the Deputy General Manager, Tezpur T&T Circle, AEGCL, Kunderbari, Depota** invites tenders in prescribed form, from reputed Firms/Contractors/Manufacturers with sound technical and financial capabilities for the following work. A single stage two envelope procedure (**Techno-Commercial and Price Bid**) will be adopted for this tender.

Sl. No.	Name of work	Estimated Amount In (Rs)	Time of completion	Name and address of Consignee
1	Supply of Panel and Bay equipments for 1(No.) of 33kV Bay for AIDC, Dighalichapari, Sonitpur at 132/33kV Tezpur GSS under Depota division, AEGCL	8,07,710.00	60 days from the date of issue of work order	Asstt. General Manager, 132kV Depota GSS, AEGCL

1.0	Cost of Bidding Document:
	Bidder has to pay Non-Refundable tender document cost of Rs. 1000.00 (Rupees One Thousand) only in the form of A/C payee Demand draft (Non-refundable) pledged in favour of AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati-1, payable at Guwahati. The name mentioned in the Demand Draft should be in the name of the party/firm/proprietor participate in the tender.
2.0	Bidding Address:
	Tender papers can be purchased on application in plain paper from the Deputy General Manager, Tezpur T&T Circle, AEGCL, Tezpur.
2.1	Key Dates:-
	Bid Document available date: 10:00hrs of 08-09-2026
	Bid Submission Start Time & date: 11:00hrs of 08-09-2026
	Bid Submission end time & date: 12:00hrs of 23-09-2026
	Techno-Commercial Bid Opening time: 13:00hrs of 24-09-2026
3.0	Validity of Bids and Bids Prices:
	Bids shall remain valid for a period of 180 days after the bid submission deadline date prescribed by AEGCL. In exceptional circumstances, prior to the expiration of the bid validity period, AEGCL 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 shall also be extended for a corresponding period.
3.2	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.
3.3	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.
3.4	Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules.

4.0	Bid Security:
4.1	All bids must be accompanied by a bid security amounting to Rs. ₹ 16,200.00 only in the form of Bank Guarantee/Demand Draft from any Nationalized Bank payable at Guwahati in favour of AEGCL, Bijulee Bhawan, Paltanbazar, Guwahati-01.
4.2	If a bid security is specified, any bid not complying then his bid shall be rejected by the Employer as non-responsive.
4.3	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.
4.4	The bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security.
4.5	The bid security may be forfeited: If a Bidder withdraws its bid during the period of bid validity specified by the Bidder. if the successful Bidder fails to: sign the Contract with in the specified period. Furnish a performance security within 15(fifteen) days time.
4.6	The Bid Security of a JV shall be in the name of the JV that submits the bid. If the JV has not been legally constituted at the time of bidding, the Bid Security shall be in the names of all future partners as named in the letter of intent.
4.7	If a bid securing declaration is not executed in accordance with the above, AEGCL will declare the Bidder ineligible to be awarded a contract by the AEGCL for the period of time stated in the Form of Bid Securing Declaration.
5.0	Format and Signing of Bid:
5.1	The Bidder shall prepare one original of the Technical Bid and one original of the Price Bid comprising the Bid and clearly mark it —ORIGINAL - TECHNICAL BID and —ORIGINAL - PRICE BID. In addition, the Bidder shall submit three copies of the bid, in the number specified and clearly mark each of them —COPY. In the event of any discrepancy between the original and the copies, the original shall prevail.
5.2	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 Bid Document 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 initialed by the person signing the bid.
5.3	A bid submitted by a JV shall be signed so as to be legally binding on all partners.
5.4	Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.
6.0	Submission and Opening of Bids:
6.1	Submission, Sealing and Marking of Bids:
6.1.1	Bidders may submit their bids by mail or by hand. When so specified in the Bid Document, bidders shall have the option of submitting their bids electronically. Procedures for submission, sealing and marking are as follows: Bidders submitting bids by mail or by hand shall enclose the original and each copy of the Bid, including alternative bids, if permitted in accordance with above, in separate sealed envelopes, duly marking the envelopes as —ORIGINAL and —COPY. These envelopes containing the original and the copies shall then be enclosed in one single envelope.

6.1.2	The inner and outer envelopes shall: bear the name and address of the Bidder; be addressed to the Bidding Authority. bear the specific identification of this bidding process indicated in the Bid Document
6.1.3	The outer envelopes and the inner envelopes containing the Technical Bid shall bear a warning not to open before the time and date for the opening of Technical Bid.
6.1.4	The inner envelopes containing the Price Bid shall bear a warning not to open until advised by the AEGCL.
6.1.5	If all envelopes are not sealed and marked as required, the Employer will assume no responsibility for the misplacement or premature opening of the bid.
6.2	AEGCL may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document, in which case all rights and obligations of the AEGCL and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.
7.0	Eligible Bidders:
7.1	A Bidder may be a private entity or a government-owned entity or any combination of such entities with the intent to enter into an agreement supported by a letter of intent or under an existing agreement in the form of a joint venture, consortium, or association (JV). In the case of a JV: a) all partners shall be jointly and severally liable, and b) the JV shall nominate a Representative who shall have the authority to conduct all business for and on behalf of any and all the partners of the JV during the bidding process and, in the event the JV is awarded the Contract, during contract execution.
7.2	A Bidder, and all partners constituting the Bidder, shall have Indian nationality. A Bidder shall be deemed to have the nationality of a country if the Bidder is a national or is constituted, incorporated, or registered and operates in conformity with the provisions of the laws of Republic of India. This criterion shall also apply to the determination of the nationality of proposed subcontractors or suppliers for any part of the Contract including related services.
7.3	AEGCL considers conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under Anticorruption Policy of Government of India and Government Of Assam. In pursuance Anticorruption Policy's requirement that Employer as well as bidders, suppliers, and contractors observe the highest standard of ethics. AEGCL will take appropriate actions if it determines that a conflict of interest has flawed the integrity of any procurement process. Consequently all Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to: they have controlling partners in common; or they receive or have received any director in direct subsidy from any of them; or they have the same legal representative for purposes of this bid; or they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or a Bidder participates in more than one bid in this bidding process. Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which it is involved. However, this does not limit the inclusion of the same sub contractor, not otherwise participating as a Bidder, in more than one bid; or

	a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the plant and services that are the subject of the bid.
7.4	A firm that is under a declaration of ineligibility by the AEGCL or any Government Entity or PSU at the date of the deadline for bid submission or thereafter i.e. on or before contract signing date shall be disqualified.
7.5	Bidders shall provide such evidence of their continued eligibility satisfactory to the AEGCL, as the Employer shall reasonably request.
7.6	In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.
8.0	Financial Capability:
8.1	Bidder will require to submit along with the bid the audited balance sheets, IT Return and other legal financial statements acceptable to AEGCL, for the recent year to demonstrate the current soundness of the Bidders financial position and its prospective long term profitability. As a minimum, an Applicant's net worth calculated as the difference between total assets and total liabilities should be positive.
8.2	Average Annual Turnover: Minimum average annual turnover INR 2,43,000.00 calculated as total certified payments received for contracts in progress or completed, within the last 3 Financial Year.
8.3	Financial Resources: Bidder need to 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: (1) the following cash-flow requirement, INR 2,43,000.00 and (2) the overall cash flow requirements for this contract and its current works commitment.
9.0	Experience:
9.1	Experience on similar nature of works under contracts in the role of manufacturers, contractor, subcontractor, or management contractor for at least the last 7(Seven) years prior to the bid submission deadline.
9.2	Participation as manufacturer, contractor Experience having successfully completed similar works during last 7 years ending last day of the month previous to the one in which applications are invited should be either of the following: (a) Three (3) similar completed works costing not less than Rs. 3,23,500.00 . (b) Two (2) similar completed works costing not less than Rs. 4,04,000.00 (c) One (1) similar completed works costing not less than Rs. 6,46,500.00
9.3	The Bidder must have experience of executing work of similar nature previously. The bidder must submit experience and completion certificate for scrutiny by AEGCL. Each of such project/ works should consist of completion certificate as per Clause 9.1.
10.0	Evaluation Criteria:
10.1	Evaluation will be done on the basis of <i>Bid Clause</i> No. 7.0 , Eligible Bidders, Cl. No. 8.0, Financial Capability, Cl. No. 9.0, and Experience and in accordance with the Annexure I to be duly filled in, signed and submitted by the bidder.
10.2	Price Bid of only Responsive and qualified Techno-Commercial Bidders will be opened.
10.3	Arithmetical Error , if observed while in Price Bid evaluation, same will only be corrected.
10.4	Any post bid correction request will NOT BE ENTERTAINED.
10.5	Price Bid Envelope of the Non-responsive Techno Commercial Bidders will be returned to the respective bidders against submission of a written request by the bidder.

10.6	The following methodology will be practiced 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 are 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. 10.6.(i) and 10.6.(ii), whichever is applicable. • To seek and analyze 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. (iv) 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.
11.0	Late Bid:
11.1	Any bid submitted <i>after the due date and time</i> will be rejected without any prejudice.
11.2	AEGCL will not be responsible for any Postal and/or Courier Delay in delivering the bid. The same received after the scheduled closing date and time will be rejected without any prejudice.
11.3	Bidding through EMAIL WILL NOT BE ACCEPTED.
12.0	Clarification:
12.1	A prospective Bidder requiring any clarification of the Bidding Document shall contact the AEGCL in writing at the AEGCL's address indicated in the BDS or raise his enquiries prior to 7 (seven) days of closing of the bid. The Employer 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 AEGCL's response shall be in writing with copies to all Bidders who have acquired the Bidding Document including a description of the inquiry but without identifying its source. Should AEGCL deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so.
12.2	The Bidder is advised to visit and examine the site where the work is 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 site shall be at the Bidder's own expense.
12.3	The Bidder and any of its personnel or agents will be granted permission by the Employer 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 Employer 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.
12.4	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.
12.5	The Bidder is requested, as far as possible, to submit any questions in writing, to reach the AEGCL not later than one week before the pre-bid meeting if there is provision of Pre Bid Meeting.
12.6	Minutes of the pre-bid meeting, including the text of the questions raised, 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. Any modification to the Bidding Document that may become necessary as a result of the pre-bid meeting shall be made by AEGCL exclusively through the issue of an Addendum but not through the minutes of the pre-bid meeting.
12.7	Non-attendance at the pre-bid meeting will not be cause for disqualification of a Bidder.
13.0	Amendment of Bidding Document:
13.1	At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addenda.
13.2	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 AEGCL.
13.3	To give prospective Bidders reasonable time in which to take an addendum into account in preparing their bids, AEGCL may, at its discretion, extend the deadline for the submission of bids.
14.0	Preparation of Bids by the Bidders:
14.1	Cost of bidding: The Bidder shall bear all costs associated with the preparation and submission of its Bid and AEGCL shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
14.2	Language of Bid: The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and AEGCL, shall be written in the English language.
14.3	Bid Prices and Discounts:
14.3.1	Unless otherwise specified in the Bid Document and/or AEGCL's Requirements, bidders shall quote for the entire plant and services on a —single responsibility basis such that the total bid price covers all the Contractor's obligations mentioned in or to be reasonably inferred from the bidding document in respect of the including procurement and subcontracting (if any), delivery, construction, installation and completion of the Work. This includes all requirements under the Contractor's responsibilities for completing the work and where so required by the bidding document, the acquisition of all permits, approvals and licenses, etc.; the operation, maintenance and training services and such other items and services as may be specified in the Bidding Document, all in accordance with the requirements of the General Conditions. Items against which no price is entered by the Bidder will not be paid for by the Employer when executed and shall be deemed to be covered by the prices for other items.

14.3.2	Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding document. If a Bidder wishes to make a deviation, such deviation shall be listed. The Bidder shall also provide the additional price if any, for withdrawal of the deviation.
14.3.3	Bidders shall give a breakdown of the prices in the manner and detail called for in the Price Schedules. Where no different Price Schedules are included in the Bidding Document, bidders shall present their prices in the following manner: (a) Separate numbered Schedules shall be used for each of the following elements. (i) The total amount from each Schedule shall be summarized in a Grand Summary giving the total bid price(s) to be considered.
14.3.4	The price of the work shall be quoted as the Base Price or EXW Price
14.3.5	Sales Tax, GST and all other taxes (as applicable) payable on the work should be indicated separately. In case of failure to indicate so AEGCL will consider such taxes are included in the Offered Price.
14.3.6	Whenever forest produces like sand, stone, timbers etc are used in the work the contractor have to furnish documentary proof that requisite royalty on such produces has been paid to the concerned Department.
14.3.7	When the work being “work contract” which is one and individual and which involves no separate contract for the sale of materials, the contractor shall have not be entitled to get any VAT and or any other taxes, levies reimbursed from the AEGCL for the supply of the materials.
14.3.8	Taxes like work contract, income tax etc. which need to be deducted at source as per the prevailing law of the land, will be deducted at source.
14.3.9	The Prices shall be FIXED and FIRM: The Bided Price should on Fixed Price basis, 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.
15.0	Additional Requirements:
15.1	Bidders(s) knowledge from actual personal investigation of the resources of the region or District (S) in which he/they offers the work.
15.2	The Bidder shall furnish copy of their PAN Card. The card must be in the name of firm, in case the bidder is a partnership Firm.
15.3	In case the bidder is a partnership Firm, the work experience and turn over shall be in the name of partnership Firm only.
15.4	Upto date GST Return and Annual turnover for last three financial years
15.5	GST registration No.
15.6	Registered Power of attorney if any.
15.7	IT Return for last three financial years
15.8	Audited Balance Sheet and Profit and Loss Account for last three financial years
15.9	Manufacturer Authorization
15.10	GTPs
15.11	Experience
15.12	Annexure-C for Input Tax Credit
16.0	Negotiation with successful bidder:
16.1	The AEGCL reserve the right to hold negotiations with lowest who should be lowest, valid, eligible and technically acceptable bidder considered for award of contract directly if the rates

	were not unreasonably high.
17.0	TECHNICAL REQUIREMENTS
17.1	Intent of specification
	This section of the specification deals with the technical information & criteria for “ Supply of Panel and Bay equipments for 1(No.) of 33kV Bay for AIDC, Dighalichapari, Sonitpur at 132/33kV Tezpur GSS under Depota division, AEGCL ” The Contractor's proposal shall be based on the use of materials complying fully with the requirements specified herein.
18.0	Contractor to inform himself fully
18.1	The Contractor should ensure that he has examined the General Conditions, qualifying criteria, Specifications and Schedules 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.
18.2	AEGCL shall not be responsible for any misunderstanding or incorrect information obtained by the Contractor other than information given to the Contractor in writing by AEGCL.
19.0	Conformity with Indian Electricity rules & other local regulations wherever applicable:
19.1	The Contractor 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, in regard to the rules and regulations that may be applicable.
19.2	The materials covered by this specification 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.
19.3	The Contractor shall also comply with the Minimum Wages Act 1948 and the payment of Wages Act (both. Of the Government of India and State of Assam) and the rules made there under in respect of any employee or workman employed or engaged by him or his Sub- Contractor.
19.4	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. However, any registration, statutory inspection fees lawfully payable under the provisions of the statutory laws and its amendments from time to time during erection in respect of the Substation Works, ultimately to be owned by the Employer, shall be to the account of the Employer. Should any such inspection or registration need to be re-arranged due to the fault of the Contractor or his Sub-Contractor, the additional fees to such inspection and/or registration shall be borne by the Contractor.
19.5	In case of any conflict between the standards and this specification, this specification shall govern.
20.0	Employer Supervision
20.1	The scope of the duties of the Employer, pursuant to the contract, will include but not be limited to the following. Inspect, accept or reject any material and work under the Contract. Issue certificate of acceptance and/or progressive payment and final payment certificate.
21.0	Packing:
	All the materials shall be suitably protected, coated, covered or boxed and crated to prevent damage or deterioration during transit, handling and storage at Site till the time of erection. The Supplier shall be responsible for any loss or damage during transportation, handling and storage due to improper packing.
	The Supplier shall include and provide for securely protecting and packing the materials so as to avoid loss or damage during transport by air, sea, rail and road.
	All packing shall allow for easy removal and checking at site. Wherever necessary, proper arrangement for attaching slings for lifting shall be provided. All packages shall be clearly

	marked for with signs showing 'up' and 'down' on the sides of boxes, and handling and unpacking instructions as considered necessary. Special precaution shall be taken to prevent rusting of steel and iron parts during transit by sea.
	The cases containing easily damageable material shall be very carefully packed and marked With appropriate caution symbols, i.e. fragile, handle with care, use no hook etc. wherever applicable.
	Each package shall be legibly marked by the- Supplier at his expenses showing the details such as description and quantity of contents, the name of the consignee and address, the gross and net weights of the package, the name of the Supplier etc.
22.0	Materials handling and storage:
	(a) All the supplies under the Contract as well as Employer supplied items (if any) arriving at site shall be promptly received, unloaded and transported and stored in the stores by the Contractor. (b) Contractor shall be responsible for examining all the shipment and notify the Employer immediately of any damage, shortage, discrepancy etc. for the purpose of Employer's information only. The Contractor shall submit to the Employer 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. (c) 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 Employer. (d) All items shall be handled very carefully to prevent any damage or loss. The materials stored shall be properly protected to prevent damage. (e) All the materials stored in the open or dusty location must be covered with suitable weatherproof and flameproof covering material wherever applicable. (f) The Employer will verify the storage facilities arranged by the contractor and dispatch clearance will be provided only after Employer is satisfied.
23.0	DAMAGE TO PERSON AND PROPERTY:-
	The Contractor shall be responsible for all injury to the work or to workmen, to persons, animals or things and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of contractor or its employees, against whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this Contract. The Contractor shall at his cost effect the insurance necessary and indemnify AEGCL entirely from all responsibility in this respect. The scope of insurance is to include loss or damage to the work and workmen due to carelessness, accident including fire, earthquake, floods, all medical expenses, compensation to be borne in the event of accident etc., damage or loss to the Contract itself till this is made over a complete state. Insurance is compulsory and must be affected from the very initial stage and should cover the entire contract period till handing over of complete works. The Contractor shall also be responsible for anything which may be excluded from damage to any property arising out of incidents, negligence or defective carrying out of this Contract. AEGCL shall be at liberty and is hereby empowered to deduct the amount of any damages, compensations, costs, charges and expenses arising or occurring from or in respect of any such claim for damages from any sums due or to become due to the Contractor.

24.0	LABOUR LEGISLATION:-																																											
	The Bidder shall comply with the provisions of the Apprentices Act 1961, payment of Wages Act 1936, Minimum Wages Act 1948, Employees Liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefits Act 1961, and the Contract Labour (Regulation and Abolition) Act 1970, Provident Fund Act or the modifications thereof or any other laws relating thereto and the rules made there under from time to time. b) The Bidder shall indemnify and keep indemnified AEGCL against payments to be made under and for the observance of the laws aforesaid and the Contractors' Labour Regulations without prejudice to his right to claim. The laws aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this contract. c) The Bidder shall at his own expense arrange for all the safety provisions for the safety of all workers and employees directly or indirectly employed on the work by the Bidder. d) The Bidder shall be fully responsible at his own expenses for compliance all the labour regulations and rules to be observed by them. The Bidder shall fully indemnify AEGCL against any action by the state and/or Central Government for any default or alleged default by the Bidder for violation of any of such rules and regulations. If, due to any default of the Bidder, AEGCL has to incur any expenditure for compliance of the rules and regulations or for any other reason connected with such default, AEGCL shall be entitled to recover from the Bidder all such expenditure in full from any payment due to the Bidder.																																											
25.0	TECHNICAL SPECIFICATIONS																																											
25.1	Trip Circuit Supervision Relay The Trip circuit supervision relay shall conform to the following requirements: <table border="1"> <thead> <tr> <th>Sl. No.</th><th>Parameter</th><th>Technical Requirement</th></tr> </thead> <tbody> <tr> <td>1</td><td>Equipment</td><td>Trip Circuit / Trip Coil Supervision Relay</td></tr> <tr> <td>2</td><td>Application</td><td>Continuous supervision of Circuit Breaker trip circuit</td></tr> <tr> <td>3</td><td>Make</td><td>Alstom / GE Grid Solutions (formerly Alstom)</td></tr> <tr> <td>4</td><td>Model / Type</td><td>MVAXM31D1CE2754A</td></tr> <tr> <td>5</td><td>Relay Series</td><td>MVAXM31</td></tr> <tr> <td>6</td><td>Relay Type</td><td>Static Trip Circuit Supervision Relay</td></tr> <tr> <td>7</td><td>Supervision</td><td>Pre-closing and Post-closing supervision</td></tr> <tr> <td>8</td><td>Auxiliary / Operating Voltage</td><td>110–125 V DC</td></tr> <tr> <td>9</td><td>Operating Voltage Range</td><td>Suitable for continuous operation over the manufacturer's specified operating band; minimum acceptable range shall be 80%–120% of rated voltage</td></tr> <tr> <td>10</td><td>Output Contacts</td><td>1 Make (NO) + 2 Break (NC)</td></tr> <tr> <td>11</td><td>Contact Type</td><td>Self-reset (S/R)</td></tr> <tr> <td>12</td><td>Flag / Indicator</td><td>Reverse flag</td></tr> <tr> <td>13</td><td>Function</td><td>Continuous monitoring of CB trip circuit for healthy condition/failure</td></tr> </tbody> </table>		Sl. No.	Parameter	Technical Requirement	1	Equipment	Trip Circuit / Trip Coil Supervision Relay	2	Application	Continuous supervision of Circuit Breaker trip circuit	3	Make	Alstom / GE Grid Solutions (formerly Alstom)	4	Model / Type	MVAXM31D1CE2754A	5	Relay Series	MVAXM31	6	Relay Type	Static Trip Circuit Supervision Relay	7	Supervision	Pre-closing and Post-closing supervision	8	Auxiliary / Operating Voltage	110–125 V DC	9	Operating Voltage Range	Suitable for continuous operation over the manufacturer's specified operating band; minimum acceptable range shall be 80%–120% of rated voltage	10	Output Contacts	1 Make (NO) + 2 Break (NC)	11	Contact Type	Self-reset (S/R)	12	Flag / Indicator	Reverse flag	13	Function	Continuous monitoring of CB trip circuit for healthy condition/failure
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	14	Faults to be detected	Failure/loss of trip supply, open circuit of trip coil/wiring and failure of tripping mechanism
	15	Alarm	Relay shall initiate alarm upon failure of the supervised trip circuit
	16	Alarm operating time	0.35–0.8 s approximately, or as per manufacturer's standard
	17	Voltage dip immunity	Relay shall incorporate suitable drop-off delay to prevent false alarm during momentary voltage dips and normal circuit-breaker tripping operation
	18	Drop-off delay	Approximately 350–800 ms
	19	Thermal withstand	Minimum 120% of rated voltage continuously , or manufacturer's standard, whichever is higher
	20	Maximum loop resistance	400 Ω for nominal alarm supply, subject to manufacturer's design
	21	Construction	Robust static/electromechanical construction suitable for substation protection and control panels
	22	Mounting	Suitable for MIDOS relay system / Size 4 mounting arrangement
	23	Installation	Panel mounted, suitable for indoor switchyard control & protection panels
	24	Connections	Screw/plug-in terminal arrangement as per manufacturer's standard and approved wiring diagram
	25	Environmental conditions	Suitable for continuous operation in the environmental conditions prevailing in electrical substations
	26	Insulation	Shall comply with applicable manufacturer's insulation and dielectric requirements for substation protection/control equipment
	27	EMC performance	Shall be suitable for operation in the electromagnetic environment of HV/EHV substations
	28	Applicable standards	Latest applicable IEC/BS standards and manufacturer's standard for trip circuit supervision relays
	29	Accessories	Complete with mounting arrangement, terminal accessories, identification/name plate and all accessories required for proper operation

	30	Documentation	Manufacturer's datasheet, instruction/commissioning manual, wiring diagram, terminal diagram and test certificate shall be supplied
	31	Testing	Routine/FAT testing shall be carried out in accordance with manufacturer's standard
	32	Compatibility	Relay shall be directly suitable for the existing Alstom MVAXM31 wiring/scheme where replacement is intended
	33	Identification	Nameplate shall clearly indicate make, model, auxiliary voltage, contact arrangement and serial number
Functional requirement			
The relay shall continuously supervise the complete circuit associated with the circuit-breaker's trip coil. The supervision shall remain effective:			
1. When the circuit breaker is closed (post-closing supervision); and 2. When the circuit breaker is open (pre-closing supervision).			
The relay shall give an alarm in case of:			
• Failure of the DC trip supply; • Open circuit in the trip-coil circuit; • Open circuit in associated trip wiring; • Failure of the circuit-breaker tripping mechanism to complete the trip operation.			
25.2	Master Trip Relay		
The Master Trip Relay shall conform to the following requirements:			
	Sl. No.	Parameter	Technical Requirement
	1	Equipment	Master Trip Relay (86 Relay)
	2	Application	Master tripping and electrical interlocking of circuit breakers in HV/EHV protection and control schemes
	3	Make	Alstom / GE Grid Solutions (formerly Alstom)
	4	Model / Type	MUAJM15JA0752A
	5	Relay Series	MUAJM15
	6	Relay Function	Master Trip / Lockout Relay (86)
	7	Operation	Relay shall operate upon energisation from the associated protection trip circuits and shall initiate tripping of the designated circuit breaker(s).
	8	Lockout Function	The relay shall provide a positive lockout function where specified and shall prevent re-energisation/reclosing of the associated breaker until the relay is reset.

	9	Reset	Reset arrangement shall be as per the existing Alstom relay design/scheme and shall be suitable for manual reset where applicable.
	10	Auxiliary Supply	Suitable for the existing station protection/control DC supply and as per the specified model MUAJM15JA0752A
	11	Trip Initiation	Shall accept trip initiation from associated protection relays such as distance, differential, overcurrent/earth-fault, busbar and other designated protection functions, as applicable.
	12	Output	Shall provide adequate potential-free contacts for initiating CB trip circuits and associated interlocking/alarm functions.
	13	Contact Arrangement	As per manufacturer's standard for MUAJM15JA0752A and existing approved scheme
	14	Trip Circuit	Output contacts shall be rated for direct switching of the associated circuit-breaker trip-coil circuit or through an interposing arrangement, as applicable.
	15	Contact Rating	Suitable for the existing DC trip circuit; contact rating shall comply with the manufacturer's specified DC inductive switching capability.
	16	Contact Coordination	Contacts shall be suitably rated for the breaker trip-coil current and shall provide adequate electrical isolation between independent circuits.
	17	Operation Indicator	Positive mechanical/electrical operation indication shall be provided as per manufacturer's standard.
	18	Lockout Indication	Clear indication of operated/lockout condition shall be available.
	19	Operation Reliability	Relay shall operate positively and reliably without contact bounce causing malfunction of the associated trip scheme.
	20	Security	Relay shall be immune to inadvertent operation due to normal switching transients and electrical disturbances within the specified operating limits.
	21	Construction	Robust construction suitable for continuous operation in HV/EHV substation protection and control panels.
	22	Mounting	Suitable for the existing panel/relay mounting arrangement and directly compatible with the existing relay mounting provisions.
	23	Wiring	Terminal arrangement shall be compatible with the existing wiring scheme. Any change in terminal arrangement shall not be acceptable without prior approval.
	24	Environmental Conditions	Suitable for continuous operation under the environmental conditions prevailing in electrical substations in Assam/India.
	25	Insulation	Shall comply with applicable insulation and dielectric requirements for protection/control equipment used in HV/EHV substations.

26	EMC	Shall be suitable for operation in the electromagnetic environment of HV/EHV substations.
27	Applicable Standards	Latest applicable IEC/BS standards and manufacturer's standards applicable to master trip/lockout relays.
28	Compatibility	The relay shall be fully compatible with the existing Alstom protection and breaker tripping scheme.
29	Replacement	For replacement applications, the offered relay shall be form-fit-function compatible with the existing MUAJM15JA0752A relay.
30	Accessories	Complete with mounting hardware, terminals/connectors, identification plate and all accessories necessary for installation and operation.
31	Documentation	Manufacturer's datasheet, instruction manual, terminal/wiring diagram, setting/application information and test certificate shall be supplied.
32	Testing	Routine/FAT testing shall be carried out in accordance with manufacturer's standard.
33	Nameplate	Nameplate shall indicate make, model/type, serial number, ratings and other relevant particulars.

Functional Requirements

The Master Trip Relay shall be suitable for use as an **86 lockout/master trip relay** in the substation protection scheme.

The relay shall:

- Receive trip commands from designated protection relays.
- Operate reliably upon receipt of a valid trip command.
- Initiate tripping of the associated circuit breaker(s).
- Provide adequate output contacts for the required breaker trip circuits.
- Provide lockout functionality where incorporated in the existing scheme.
- Prevent inadvertent re-energisation/reclosing following operation where the lockout function is required.
- Provide clear indication of the operated/lockout condition.
- Remain in the operated condition until the prescribed reset operation is performed.
- Provide sufficient electrical isolation between protection, trip, alarm and indication circuits as required by the scheme.

Master Trip / 86 Function

The Master Trip Relay shall be suitable for operation as a **86-type master trip/lockout relay**. Upon operation, the relay shall initiate the required breaker trip command(s) and associated interlocking/alarm functions.

The relay shall be designed such that a single protection-trip command cannot result in an unreliable or intermittent breaker trip due to inadequate contact rating or contact bounce.

Where the existing scheme incorporates multiple breaker trip outputs, the relay shall have the required number of independent output contacts to operate all designated trip circuits.

25.3	HRC Fuse	
	The HRC Fuse shall conform to the following requirements:	
	Sl. No.	Parameter Requirement
	1	Type Cartridge type HRC Fuse Link
	2	Application Suitable for use in substation auxiliary, protection, control, indication and other electrical circuits
	3	Rated Current 2A, 4A, 10A & 16A , as specified in BOQ
	4	Rated Voltage Suitable for the applicable AC/DC circuit voltage
	5	Utilization Category gG , unless otherwise required for the particular application
	6	Breaking Capacity Adequate for the prospective fault current of the associated circuit
	7	Construction Ceramic body with suitable fuse element and arc-quenching material
	8	Fuse Holder Compatibility Shall be suitable for the existing fuse holder/carrier provided in the substation panels
	9	Standards IEC 60269-1 & IEC 60269-2 , latest applicable edition
	10	Identification Rated current and manufacturer's identification shall be clearly marked on the fuse
	11	Quality Fuse shall be of reputed make and suitable for reliable continuous service in substation applications
	12	Testing Routine testing as per applicable IEC standards shall be carried out by the manufacturer
General Requirements		
1. The fuse shall be suitable for AC/DC auxiliary and control applications, as applicable. 2. For DC applications, the fuse shall have an adequate DC voltage rating and DC breaking capacity. 3. The fuse shall be electrically and dimensionally compatible with the existing fuse holder/carrier. 4. The fuse shall be supplied in new and unused condition and free from any manufacturing defects. 5. Manufacturer's standard catalogue/datasheet shall be furnished, if required by the Purchaser.		

25.4

STPC–STPC MM Duplex Fibre Optic Patch Cord

The fibre optic patch cords shall conform to the following requirements:

Sl. No.	Parameter	Technical Requirement
1	Item	Fibre Optic Patch Cord
2	Connector Type	STPC–STPC (ST Push-Pull Connector)
3	Fibre Type	Multimode (MM) Duplex
4	Fibre	Duplex multimode optical fibre, 50/125 µm or 62.5/125 µm , as compatible with existing system
5	Length	10 m & 15 m , as specified in BOQ
6	Cable Construction	Duplex patch cord suitable for indoor/substation panel installation
7	Insertion Loss	≤ 0.5 dB per connector , or better
8	Return Loss	≥ 20 dB , or better
9	Operating Wavelength	Suitable for the existing multimode communication equipment
10	Jacket	LSZH or equivalent suitable flame-retardant jacket
11	Operating Temperature	Suitable for the environmental conditions of the substation
12	Connector Ferrule	Ceramic ferrule, precision aligned
13	Connector Finish	PC finish or equivalent, suitable for MM application
14	Polarity	Duplex polarity shall be maintained and clearly identified
15	Standards	Applicable IEC/ISO/ANSI-TIA standards for multimode fibre optic patch cords
16	Application	Suitable for use in substation communication, SCADA, protection, automation and networking systems
17	Testing	Each patch cord shall be tested for continuity and insertion loss before supply

General Requirements

1. The patch cord shall be **factory assembled, tested and ready for installation**.

2. Both ends shall be provided with **STPC connectors**, with duplex multimode fibre.

3. The connector boots and strain relief shall be robust and suitable for repeated patching/unpatching.

4. The patch cord shall be free from visible defects, kinks, cracks or damage to the optical fibre or connectors.

5. Connector end faces shall be properly polished, clean and protected with dust caps during

	transportation and storage. 6. The supplied patch cord shall be compatible with the existing fibre optic equipment, ODF and/or communication panels. 7. The bidder shall clearly mention the fibre core size (50/125 µm or 62.5/125 µm) offered.																																																			
25.5	Fixed Contact for Isolator – 36 kV, 1250 A (Female Part) The fixed contact shall conform to the following requirements: <table><tr><th>Sl. No.</th><th>Parameter</th><th>Technical Requirement</th></tr><tr><td>1</td><td>Item</td><td>Fixed Contact / Female Contact for Isolator</td></tr><tr><td>2</td><td>Application</td><td>For 36 kV, 1250 A outdoor isolator/disconnector</td></tr><tr><td>3</td><td>Contact Type</td><td>Female / Fixed Contact</td></tr><tr><td>4</td><td>Rated Voltage</td><td>36 kV</td></tr><tr><td>5</td><td>Rated Current</td><td>1250 A</td></tr><tr><td>6</td><td>Application</td><td>Suitable for continuous-duty HV substation isolator</td></tr><tr><td>7</td><td>Contact Material</td><td>High-conductivity copper or approved equivalent, suitable for HV isolator contacts</td></tr><tr><td>8</td><td>Contact Surface</td><td>Silver-plated or other suitable conductive finish to ensure low and stable contact resistance</td></tr><tr><td>9</td><td>Mechanical Construction</td><td>Robust construction suitable for outdoor HV isolator operation and repeated opening/closing</td></tr><tr><td>10</td><td>Contact Pressure</td><td>Shall provide adequate and uniform contact pressure in the closed position</td></tr><tr><td>11</td><td>Current Carrying Capacity</td><td>Suitable for continuous current of 1250 A without excessive temperature rise</td></tr><tr><td>12</td><td>Short-Time Current Withstand</td><td>Suitable for the short-time withstand current of the existing 36 kV isolator</td></tr><tr><td>13</td><td>Compatibility</td><td>Form, fit and function compatible with the existing 36 kV, 1250 A isolator</td></tr><tr><td>14</td><td>Mounting</td><td>Shall be suitable for direct replacement in the existing isolator assembly without modification</td></tr><tr><td>15</td><td>Corrosion Protection</td><td>Suitable for outdoor substation environmental conditions, including high humidity and corrosive atmosphere</td></tr><tr><td>16</td><td>Insulation Clearance</td><td>Shall maintain the required clearances and creepage distances of the existing isolator assembly</td></tr></table>	Sl. No.	Parameter	Technical Requirement	1	Item	Fixed Contact / Female Contact for Isolator	2	Application	For 36 kV, 1250 A outdoor isolator/disconnector	3	Contact Type	Female / Fixed Contact	4	Rated Voltage	36 kV	5	Rated Current	1250 A	6	Application	Suitable for continuous-duty HV substation isolator	7	Contact Material	High-conductivity copper or approved equivalent, suitable for HV isolator contacts	8	Contact Surface	Silver-plated or other suitable conductive finish to ensure low and stable contact resistance	9	Mechanical Construction	Robust construction suitable for outdoor HV isolator operation and repeated opening/closing	10	Contact Pressure	Shall provide adequate and uniform contact pressure in the closed position	11	Current Carrying Capacity	Suitable for continuous current of 1250 A without excessive temperature rise	12	Short-Time Current Withstand	Suitable for the short-time withstand current of the existing 36 kV isolator	13	Compatibility	Form, fit and function compatible with the existing 36 kV, 1250 A isolator	14	Mounting	Shall be suitable for direct replacement in the existing isolator assembly without modification	15	Corrosion Protection	Suitable for outdoor substation environmental conditions, including high humidity and corrosive atmosphere	16	Insulation Clearance	Shall maintain the required clearances and creepage distances of the existing isolator assembly
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	17	Standards	Applicable IEC 62271-102 requirements for high-voltage AC disconnectors and earthing switches																											
	18	Testing	Dimensional, material and contact-resistance checks shall be carried out before supply																											
	19	Condition	New, unused and free from manufacturing defects																											
	General Requirements 1. The fixed female contact shall be exactly suitable for the existing make, model and design of the 36 kV, 1250 A isolator. 2. The bidder shall ensure proper mechanical engagement with the corresponding male/moving contact. 3. The contact shall provide adequate contact pressure and low contact resistance throughout its service life. 4. The contact shall withstand the thermal and mechanical stresses associated with the rated continuous current and short-circuit conditions of the isolator. 5. No modification of the existing isolator structure, moving contact mechanism or mounting arrangement shall be required for installation. 6. The supplied contact shall be suitable for outdoor substation service and shall have adequate resistance against oxidation and corrosion. 7. Where required, the bidder shall submit the manufacturer's catalogue/drawing for verification of dimensions and compatibility.																													
25.6	Fixed Contact for 33 kV Earth Switch – Female Part The fixed contact shall conform to the following requirements: <table><tr><th>Sl. No.</th><th>Parameter</th><th>Technical Requirement</th></tr><tr><td>1</td><td>Item</td><td>Fixed Contact / Female Contact for Earth Switch</td></tr><tr><td>2</td><td>Application</td><td>33 kV outdoor Earth Switch</td></tr><tr><td>3</td><td>Contact Type</td><td>Female / Fixed Contact</td></tr><tr><td>4</td><td>Rated Voltage</td><td>33 kV</td></tr><tr><td>5</td><td>Construction</td><td>Robust construction suitable for outdoor HV substation application</td></tr><tr><td>6</td><td>Contact Material</td><td>High-conductivity copper or approved equivalent</td></tr><tr><td>7</td><td>Contact Surface</td><td>Silver-plated or other suitable conductive finish for reliable electrical contact</td></tr><tr><td>8</td><td>Contact Pressure</td><td>Shall provide adequate and uniform contact pressure with the corresponding male/moving contact</td></tr></table>			Sl. No.	Parameter	Technical Requirement	1	Item	Fixed Contact / Female Contact for Earth Switch	2	Application	33 kV outdoor Earth Switch	3	Contact Type	Female / Fixed Contact	4	Rated Voltage	33 kV	5	Construction	Robust construction suitable for outdoor HV substation application	6	Contact Material	High-conductivity copper or approved equivalent	7	Contact Surface	Silver-plated or other suitable conductive finish for reliable electrical contact	8	Contact Pressure	Shall provide adequate and uniform contact pressure with the corresponding male/moving contact
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	9	Current Carrying Capacity	Suitable for the rated/short-time current of the existing 33 kV earth switch																		
	10	Short-Time Withstand	Suitable for the short-time withstand current of the existing earth switch																		
	11	Mechanical Strength	Suitable for repeated operation of the earth switch without deformation or deterioration																		
	12	Compatibility	Form, fit and function compatible with the existing 33 kV Earth Switch																		
	13	Mounting	Direct replacement in the existing assembly without modification																		
	14	Corrosion Protection	Suitable for outdoor substation environmental conditions																		
	15	Standards	Applicable requirements of IEC 62271-102																		
	16	Testing	Dimensional, material and contact-resistance checks shall be carried out before supply																		
	17	Condition	New, unused and free from defects																		
General Requirements 1. The fixed female contact shall be suitable for the existing 33 kV earth switch and shall properly mate with the corresponding moving/male contact. 2. The contact shall provide low and stable contact resistance and adequate contact pressure in the closed position. 3. The contact shall withstand the thermal and mechanical stresses arising during earth-fault conditions. 4. The contact shall be suitable for outdoor substation service, including humid and corrosive environmental conditions. 5. The supplied contact shall be a direct replacement and shall not require modification of the existing earth-switch assembly. 6. All necessary mounting hardware/accessories, if applicable, shall be included in the supply. 7. The bidder shall ensure dimensional compatibility with the existing earth switch and shall submit the manufacturer's drawing/catalogue, if required by the Purchaser.																					
25.7	Moving Contact for Earth Switch with Flexible Conductor – Male Part The moving contact shall conform to the following requirements: <table><tr><th>Sl. No.</th><th>Parameter</th><th>Technical Requirement</th></tr><tr><td>1</td><td>Item</td><td>Moving Contact with Flexible Conductor for Earth Switch</td></tr><tr><td>2</td><td>Application</td><td>33 kV outdoor Earth Switch</td></tr><tr><td>3</td><td>Contact Type</td><td>Male / Moving Contact</td></tr><tr><td>4</td><td>Rated Voltage</td><td>33 kV</td></tr><tr><td>5</td><td>Contact Material</td><td>High-conductivity copper or approved equivalent</td></tr></table>			Sl. No.	Parameter	Technical Requirement	1	Item	Moving Contact with Flexible Conductor for Earth Switch	2	Application	33 kV outdoor Earth Switch	3	Contact Type	Male / Moving Contact	4	Rated Voltage	33 kV	5	Contact Material	High-conductivity copper or approved equivalent
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6	Contact Surface	Silver-plated or other suitable conductive finish for reliable electrical contact
7	Flexible Connection	High-conductivity flexible copper conductor/braid , suitable for the earth-switch current and short-circuit withstand requirements
8	Flexible Conductor Protection	Suitable flexible insulating/protective conduit or covering, resistant to mechanical movement and outdoor environmental conditions
9	Current Carrying Capacity	Suitable for the rated/short-time current of the existing 33 kV earth switch
10	Short-Time Withstand	Suitable for the short-time withstand current of the existing earth switch
11	Mechanical Strength	Suitable for repeated operation without deformation, loosening or deterioration
12	Mating	Shall properly engage with the corresponding fixed female contact
13	Contact Pressure	Shall provide adequate contact pressure and low contact resistance in the closed position
14	Compatibility	Form, fit and function compatible with the existing 33 kV Earth Switch
15	Mounting	Suitable for direct replacement without modification to the existing mechanism
16	Corrosion Protection	Suitable for outdoor substation environmental conditions
17	Standards	Applicable requirements of IEC 62271-102
18	Testing	Dimensional, material, contact-resistance and mechanical checks shall be carried out before supply
19	Condition	New, unused and free from defects

General Requirements

1. The moving male contact shall be suitable for the **existing 33 kV earth switch** and shall properly mate with the corresponding fixed female contact.
2. The flexible conductor shall be securely connected to the moving contact and shall accommodate the complete operating movement of the earth switch without undue mechanical stress.
3. The flexible conductor shall have adequate cross-section and short-circuit withstand capability corresponding to the existing earth switch.
4. The contact surfaces shall be properly finished/plated to ensure **low and stable contact resistance**.
5. The assembly shall withstand the mechanical forces and thermal stresses associated with earth-fault conditions.
6. The flexible conduit/protection shall be suitable for outdoor substation service and shall withstand repeated movement, UV exposure, moisture and normal environmental conditions.

	7. The complete assembly shall be a direct replacement for the existing moving contact and shall not require modification of the earth-switch operating mechanism. 8. All necessary mounting hardware, flexible conductor, terminals and accessories shall be included in the supply.																																	
25.8	SURGE PROTECTION DEVICE / SURGE ARRESTER 1. Scope The specification covers the design, manufacture, testing, supply and delivery of gapless metal oxide (ZnO) Surge Arresters / Surge Protection Devices, complete with all necessary accessories and fittings, suitable for protection of 33 kV class electrical equipment against atmospheric and switching over-voltages. The Surge Arrester shall be of non-linear metal oxide, gapless construction, suitable for outdoor installation and shall provide effective protection to transformers, switchgear, cables and other associated equipment. 2. Applicable Standards The Surge Arrester shall comply with the latest applicable editions/amendments of the following standards: <table><tr><th>Sl. No.</th><th>Standard</th><th>Requirement</th></tr><tr><td>1</td><td>IEC 60099-4</td><td>Metal-oxide surge arresters without gaps for AC systems</td></tr><tr><td>2</td><td>IS 15086 (Part 4)</td><td>Metal-oxide surge arresters without gaps for AC systems</td></tr><tr><td>3</td><td>IEC 60099-5</td><td>Selection and application recommendations, wherever applicable</td></tr><tr><td>4</td><td>IEC 60060</td><td>High-voltage testing techniques, wherever applicable</td></tr></table> 3. Electrical Requirements <table><tr><th>Sl. No.</th><th>Particular</th><th>Technical Requirement</th></tr><tr><td>1</td><td>Equipment</td><td>Surge Protection Device / Surge Arrester</td></tr><tr><td>2</td><td>Application</td><td>Protection of 33 kV system equipment</td></tr><tr><td>3</td><td>System nominal voltage</td><td>33 kV</td></tr><tr><td>4</td><td>Maximum system voltage</td><td>36 kV</td></tr><tr><td>5</td><td>Rated voltage of arrester (Ur)</td><td>30 kV rms</td></tr></table>	Sl. No.	Standard	Requirement	1	IEC 60099-4	Metal-oxide surge arresters without gaps for AC systems	2	IS 15086 (Part 4)	Metal-oxide surge arresters without gaps for AC systems	3	IEC 60099-5	Selection and application recommendations, wherever applicable	4	IEC 60060	High-voltage testing techniques, wherever applicable	Sl. No.	Particular	Technical Requirement	1	Equipment	Surge Protection Device / Surge Arrester	2	Application	Protection of 33 kV system equipment	3	System nominal voltage	33 kV	4	Maximum system voltage	36 kV	5	Rated voltage of arrester (Ur)	30 kV rms
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6	Maximum Continuous Operating Voltage (MCOV/U _c)	24 kV rms minimum
7	Nominal discharge current	10 kA, 8/20 μs
8	Type	Gapless metal oxide (ZnO)
9	Installation	Outdoor
10	Frequency	50 Hz
11	Arrester class	Distribution/Station class, as specified by manufacturer; minimum Line Discharge Class 2 where applicable
12	Connection	Phase-to-earth
13	Earthing	Direct earth connection
14	Polarity	Suitable for both positive and negative impulses
15	Enclosure	UV-resistant polymeric/silicone rubber or porcelain
16	Sealing	Hermetically sealed against moisture ingress

4. Surge Arrester Characteristics

The following shall be the **maximum permissible values**:

Parameter	Requirement
Rated voltage, U _r	30 kV rms
MCOV/U _c	24 kV rms
Nominal discharge current	10 kA
Nominal discharge current wave	8/20 μs
Maximum residual voltage at 5 kA	≤ 75 kV_p
Maximum residual voltage at 10 kA	≤ 85 kV_p
Maximum residual voltage at 20 kA	≤ 100 kV_p
Steep current residual voltage at 10 kA	≤ 95 kV_p
Switching impulse residual voltage at 500 A	≤ 70 kV_p
High-current impulse withstand, 4/10 μs	≥ 100 kA
Long-duration discharge capability	Suitable for applicable IEC class
Partial discharge at 1.05 × U _c	≤ 10 pC

5. Temporary Overvoltage (TOV)

The arrester shall be capable of withstanding the temporary overvoltages that may occur on the system due to earth faults, load rejection and other system disturbances without thermal

instability.

The bidder shall submit the **TOV withstand capability curve/table** indicating the permissible voltage versus time for:

- 0.1 second
- 1 second
- 10 seconds
- 100 seconds

The proposed arrester shall be suitable for the actual system earthing arrangement and fault-clearing time.

6. Constructional Requirements

The arrester shall:

1. Be of **gapless metal oxide (ZnO) construction**.
2. Consist of non-linear metal oxide resistor blocks housed in a suitable insulating enclosure.
3. Have no series spark gaps.
4. Be completely sealed against moisture and contamination.
5. Have suitable pressure-relief arrangements.
6. Be suitable for outdoor installation.
7. Have a hydrophobic, UV-resistant and weather-resistant polymeric/silicone housing or suitable porcelain housing.
8. Be capable of withstanding thermal and mechanical stresses associated with surge discharge.
9. Have corrosion-resistant terminals and hardware.
10. Be supplied with suitable mounting brackets and earth connection accessories.

7. Creepage Distance

The minimum creepage distance shall be suitable for the site pollution level and applicable IEC requirements.

For normal outdoor 33 kV service, the bidder shall indicate:

- Minimum creepage distance: $\geq 900 \text{ mm}$, unless a different value is justified based on the specified pollution level and applicable standard.
- Specific creepage distance in mm/kV shall be stated by the bidder.

8. Insulation Requirements

The arrester housing shall have adequate insulation withstand capability.

The bidder shall furnish:

- Power-frequency withstand voltage
- Lightning impulse withstand voltage
- Creepage distance

- Arrester insulation level
- Dry and wet withstand values, wherever applicable.

9. Pressure Relief

The arrester shall incorporate an effective pressure-relief device to prevent explosive failure of the housing in the event of an internal fault.

The pressure-relief capability shall be demonstrated through relevant type-test certificates in accordance with IEC 60099-4.

10. Terminals and Mounting Accessories

Each arrester shall be supplied complete with:

- Line terminal
- Earth terminal
- Mounting bracket/base
- Connecting hardware
- Earth connection arrangement
- Corona-control/radiating accessories, wherever required
- Surge counter, if specified in the BOQ
- Leakage-current monitoring arrangement, if specified
- All necessary nuts, bolts and washers

All exposed metallic hardware shall be corrosion resistant.

11. Surge Counter

Where specified in the BOQ, a suitable **surge counter** shall be provided for each individual arrester.

The counter shall:

- Be suitable for outdoor installation.
- Operate without an external auxiliary power supply.
- Record the number of discharge operations.
- Have a suitable weatherproof enclosure.
- Be clearly readable during inspection.

Where required, a leakage-current indicator/monitor may also be provided.

12. Testing

The manufacturer shall carry out all tests required by the latest applicable edition of **IEC 60099-4 / IS 15086 Part 4**.

A. Type Tests

The bidder shall submit valid type-test reports covering, as applicable:

1. Insulation withstand test
2. Residual voltage test
3. Long-duration current impulse withstand test
4. Operating duty test
5. High-current impulse withstand test
6. TOV test
7. Pressure-relief test
8. Partial discharge test
9. Environmental/ageing tests
10. Mechanical tests
11. Sealing tests

B. Routine Tests

Each arrester shall be subjected to applicable routine tests, including:

- Reference voltage test
- Partial discharge test
- Leakage/current-related tests
- Sealing/visual inspection
- Verification of nameplate particulars
- Other routine tests prescribed by IEC 60099-4.

13. Acceptance Tests

The purchaser reserves the right to witness acceptance tests at the manufacturer's works.

The supplier shall provide reasonable notice of the testing schedule.

The purchaser may also require verification of:

- Rated voltage
- MCOV
- Reference voltage
- Residual voltage characteristics
- Physical dimensions
- Creepage distance
- Nameplate details
- Sealing and construction.

14. Nameplate

Each arrester shall be provided with a permanent, weatherproof nameplate containing at least:

- Manufacturer's name
- Manufacturer's type/model
- Serial number
- Year of manufacture
- Rated voltage, U_r
- Maximum continuous operating voltage, U_c

- Nominal discharge current, In
- Applicable standard
- Line discharge class, where applicable
- Manufacturing batch number
- Other information required by IEC 60099-4.

15. Guaranteed Technical Particulars

The bidder shall submit the following along with the offer:

Sl. No.	Particular	Bidder's Offer
1	Manufacturer	
2	Country of manufacture	
3	Type/Model	
4	Applicable standard	
5	System nominal voltage	
6	Maximum system voltage	
7	Rated arrester voltage, Ur	
8	MCOV/Uc	
9	Nominal discharge current	
10	Arrester classification	
11	Line discharge class	
12	Residual voltage at 1 kA	
13	Residual voltage at 5 kA	
14	Residual voltage at 10 kA	
15	Residual voltage at 20 kA	
16	Steep current residual voltage	
17	Switching impulse residual voltage	
18	High current impulse withstand	
19	Energy handling capability	
20	TOV capability – 0.1 sec	
21	TOV capability – 1 sec	
22	TOV capability – 10 sec	
23	TOV capability – 100 sec	
24	Partial discharge level	
25	Minimum creepage distance	
26	Housing material	
27	Pressure relief capability	
28	Power-frequency withstand	
29	Lightning impulse withstand	
30	Surge counter	
31	Leakage current monitor	
32	Mounting arrangement	

	33	Overall dimensions	
	34	Weight	
	35	Type-test report availability	
	36	Routine test certificate	
25.9	Pad Clamp for 33 kV SF₆ Circuit Breaker		
	Sl. No.	Parameter	Technical Requirement
	1	Item	Pad Clamp for Circuit Breaker
	2	Application	33 kV SF₆ Circuit Breaker
	3	Type	Suitable for existing CB terminal/pad arrangement
	4	Material	High-strength copper/brass or approved equivalent , suitable for electrical/mechanical application
	5	Contact Surface	Smooth, corrosion-resistant and suitable for reliable electrical connection, where applicable
	6	Current Carrying Capacity	Suitable for the rated continuous current of the existing 33 kV SF ₆ circuit breaker
	7	Mechanical Strength	Adequate to withstand mechanical forces, vibration and thermal stresses during normal and short-circuit conditions
	8	Dimensions	Shall be as per the existing circuit breaker terminal/pad arrangement
	9	Compatibility	Form, fit and function compatible with the existing 33 kV SF₆ circuit breaker
	10	Mounting	Suitable for direct replacement without modification to the existing CB terminal arrangement
	11	Corrosion Protection	Suitable for outdoor substation environmental conditions
	12	Fasteners	Suitable high-strength corrosion-resistant fasteners, if required, shall be supplied
	13	Finish	Properly machined/finished and free from burrs, cracks, sharp edges and other manufacturing defects
	14	Standards	Applicable relevant IEC standards and manufacturer's standard
	15	Testing/Inspection	Dimensional and visual inspection shall be carried out before supply
	16	Condition	New, unused and free from defects

General Requirements

1. The pad clamp shall be **specifically suitable for the existing 33 kV SF₆ circuit breaker** for which it is being procured.
2. The clamp shall provide secure mechanical fastening and reliable electrical contact at the breaker terminal/pad, wherever applicable.
3. The material shall have adequate electrical conductivity and mechanical strength for continuous service.
4. The clamp shall withstand the thermal and electrodynamics forces associated with the rated short-circuit current of the circuit breaker.
5. The supplied item shall be a **direct replacement** and shall not require modification of the existing circuit breaker.
6. All necessary bolts, nuts, washers and other mounting accessories, if applicable, shall be included.

25.10 33kV Isolator Pad Clamp

Sl. No.	Parameter	Technical Requirement
1	Item	Pad Clamp for Isolator
2	Application	33kV Outdoor Isolator
3	Rated Voltage	36 kV Class (Suitable for 33 kV System)
4	Rated Current	Suitable for the existing 1250 A isolator
5	Material	High-conductivity electrolytic copper or approved equivalent
6	Surface Finish	Silver-plated or tinned for low contact resistance and corrosion resistance
7	Mechanical Strength	Suitable to withstand mechanical and electrodynamic forces under normal and fault conditions
8	Mounting	Suitable for direct replacement on the existing isolator terminal without modification
9	Compatibility	Form, fit and function compatible with the existing 33 kV isolator
10	Hardware	Stainless steel bolts, nuts, spring washers and flat washers shall be supplied where required
11	Environmental Suitability	Suitable for outdoor substation service under humid and corrosive conditions
12	Standard	Applicable provisions of IEC 62271-102
13	Condition	New, unused and free from manufacturing defects

General Requirements

17	Communication	IEC 61850 Edition 2 with GOOSE
18	SCADA Protocol	IEC 60870-5-104 / IEC 61850
19	Other Protocols	Modbus TCP/RTU, IEC 60870-5-103/DNP as applicable
20	Ethernet	100 Mbps Ethernet; fibre/redundant interface as required by station LAN
21	Time Synchronization	IEEE 1588 PTP / IRIG-B / SNTP
22	Power Supply	Suitable for 110–250 V DC station supply
23	Programmable Logic	Required for interlocking, blocking, SPS and control logic
24	Self-Supervision	Continuous internal hardware/software supervision with alarm output
25	Software	Manufacturer's latest supported configuration and analysis software
26	Firmware	Latest manufacturer-supported firmware at the time of supply
27	Standards	IEC 60255, IEC 61850 and applicable IEC/IEEE standards
28	Mounting	Panel mounted, suitable for substation application

3. Communication & Integration

The relay shall be suitable for integration with the existing **Substation Automation/SCADA system** and shall support reporting of protection, breaker, alarm, measurement and control signals.

IEC 61850 GOOSE shall be available for high-speed peer-to-peer signalling wherever required.

4. Testing & Documentation

The supplier shall provide:

- Routine/Factory Test Certificate.
- Type Test Certificates/reports.
- Wiring and terminal diagrams.
- Protection setting/configuration files.
- IEC 61850 configuration files.
- SCADA communication/point list.
- Operation and maintenance manuals.
- Configuration software.
- Site testing and commissioning support.

5. Guaranteed Technical Particulars

The bidder shall complete the following table and submit it with the bid.

Sl. No.	Parameter	AEGCL's Requirement	Bidder's Offered Specification
1	Manufacturer	GE Multilin	
2	Model	F650	
3	Application	Feeder protection & bay control	
4	Construction	Numerical microprocessor based	
5	CT inputs	3 Phase + Ground + Sensitive Ground	
6	CT rating	1 A / 5 A	
7	Voltage inputs	Minimum 3 phase + auxiliary/bus voltage	
8	Digital inputs	Adequate programmable quantity	
9	Digital outputs	Adequate programmable quantity	
10	Trip outputs	Required	
11	Close output	Required	
12	Trip circuit supervision	Required	
13	Breaker failure	ANSI 50BF	
14	Auto-reclose	ANSI 79, four-shot	
15	Synchronism check	ANSI 25	
16	Phase OC	50/51	
17	Ground/Neutral OC	50N/51N/50G/51G	
18	Directional OC	67P/67N/67G	
19	Over/Under voltage	59/27	
20	Frequency	81U/81O	
21	ROCOF	81R	
22	Negative sequence	46/47	
23	Thermal overload	49	
24	VT fuse failure	VTFF	
25	CT supervision	Required	
26	Load encroachment	Required	
27	Setting groups	Minimum 6	
28	Fault recording	Required	
29	Oscillography	Required	
30	Event recording	Required	
31	Fault locator	Required	
32	Local HMI	Graphical display	
33	Programmable LEDs	Required	
34	IEC 61850	Edition 2	
35	IEC 60870-5-104	Required	
36	IEC 60870-5-103	Required	
37	Modbus TCP/IP	Required	
38	Modbus RTU	Required	

	39	DNP 3.0	Required	
	40	GOOSE	Required	
	41	PRP	Required where applicable	
	42	HSR	Required where applicable	
	43	RSTP	Required where applicable	
	44	IEEE 1588 PTP	Required	
	45	IRIG-B	Required/preferred	
	46	SNTP	Required	
	47	Auxiliary supply	110–250 V DC preferred	
	48	Power consumption	Manufacturer's standard	
	49	Operating temperature	Manufacturer's standard	
	50	EMC compliance	IEC 60255 series	
	51	Mounting	Panel mounted	
	52	Software	Manufacturer's latest supported software	
	53	Firmware	Latest supported version	
	54	Warranty	Minimum 18 months from commissioning	
5. Bidder's Compliance The bidder shall submit the exact GE Multilin F650 ordering code, datasheet and a clause-by-clause compliance statement along with the technical bid. Any hardware, software, licence, communication module or accessory required to meet the above specification shall be included in the quoted price.				
25.12	Wherever there is any variation in between the conditions of the AEGCL's General Conditions of Supply and Erection 2009 and the bid terms & conditions, this bid conditions will supersede the conditions of the AEGCL's General Conditions of Supply and Erection 2009.			
26.0	Liquidated Damage:			
	The date of completion of work shall be deemed to be the essence of the contract and shall not be completed no later than the date specified in the contract. In case of failure to complete the work within the stipulated period AEGCL shall be entitled to:			
26.1	Recover an amount at the rate of 1% (One percent) of the Contract Price per week or part thereof of delay, subject to maximum of 10%(Ten percent) of the contract price as liquidated damage to AEGCL. However, the payment of liquidated damages shall not in any way relieve the Contractor from any of its obligations to complete the works or from any other obligations and liabilities of the Contractor under the Contract.			
26.2	To complete the balance work giving notice to the Contractor/Firm and to recover any extra Expenditure incurred thereby for having to complete the work at a higher price at the risk and responsibility of the Contractor/Firm.			
26.3	Contractual failure:-Refer clause No.27.1 of AEGCL's General Conditions of supply and Erection 2009.			
27.0	Insurance:			
	The bidder shall arrange for any pay/cost of personnel accident insurance, medical treatment etc. in respect of their employees assigned to the works for all time and shall govern by Law of land.			

28.0	Warranty:
28.1	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.
28.2	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.
28.3	The term period of warranty for materials except Relays (Trip Circuit Supervision, Master Trip and Feeder Management Relay) shall mean the minimum period of 18 months from the date of supply of materials and for the Relays shall mean the minimum period of 18 months from the date of Commissioning. The successful bidder should warrant the free replacement of any damaged/malfunctioning equipment and its accessories during the warranty period.
29.0	Safety:
29.1	Each and every safety measures for MAN and MACHINE will be the sole responsibility of the Contractor without any prejudice. Compensation claim if any will also be the responsibility of the contractor without any prejudice. As the contract is Turnkey in nature hence AEGCL will not bear any responsibility towards such claim.
29.2	COVID-19 rules must be strictly followed during the working period.
30.0	Pollution:
	Each and every measure should be taken to adhere to the standard norms to avert any occasion of Air Pollution, Water Pollution, Soil Pollution and Sound Pollution. In case of any deviation leading to any legal action the Contractor will be solely responsible without any prejudice.
31.0	Payment terms:
31.1	No advance/Mobilization advance shall be made in this contract.
31.2	Payment will be made by DGM, Tezpur T&T Circle, AEGCL, Kunderbari, Depota, Tezpur. The Bidder / Firm will have to be submitted the following Net Banking details. (a) Banker's Name & Branch (b) Account No (c) Banker's address (d) Banker's IFSC Code (e) Banker's RTGS Code
32.0	Special Conditions Regarding Input Tax Credit under GST
	As per the letter from CGM (F&A) vide no. AEGCL/ACCT/MD/GST/44/2024/PART-II/20 dated 19/08/2026 mentioned some key conditions for claiming Input Tax Credit (a) The successful bidder is entitled to claim Input Tax Credit at actual as per the rule of GST with the maximum permissible limit as per annexed table A&B for the project/work contract. (b) If any fake ITC/bogus billing is detected or payment of inputs in cash is found, the contractor shall be liable for legal action as per the provision of GST rules including blacklisting/debarment (c) The successful bidder shall submit a certificate as per the format in annexure-C (d) The successful bidder shall bound to abide by the notification of GoA, Finance (Taxation) Department no. eCF NO. 803347/20 dated Dispur 11.07.2026.
33.0	Force Majeure Condition:

	Force Majeure conditions shall be considered as any circumstances beyond reasonable control of the party claiming relief, including but not limited to strikes, lockout, civil commotion, riot, insurrection, hostilities, mobilization, war, fire, flood, earthquake, malicious damage or accidents could entitle contractor to extension time. Any such delay should be intimated within 10 (ten) days from the beginning of such delay to consider/approved, any claim without prior information may not be considered under force Majeure.
34.0	Settlement of Dispute and Arbitration:
	Any dispute arising out of the contract will be first settled bilaterally between AEGCL and Contractor. In case, dispute cannot be settled bilaterally, it will be referred to arbitration to be by an arbitrator appointed by AEGCL. The contractor shall not stop the work during settlement of any dispute. All disputes shall be subjected to the jurisdiction of District Court of Kamrup District.
35.0	Right to Reject:
	AEGCL reserves the right to reject any or all the bids without assigning any reason thereof and the AEGCL further reserves the right to split up the work order in favour of more than one Contractor. The AEGCL also reserves the right to reject the lowest or any other price without assigning any reason.
The clauses which are not appearing in this document (bid) will be as per The General Condition of Supply and Erection 2009 of AEGCL. The General Condition of Supply and Erection 2009 of AEGCL is available in the AEGCL's website www.aegcl.co.in under Acts, Rules and Policies.	

Letter of Technical Bid

Bidder's Letterhead

Date:

Tender No.:

Invitation for Bid No.:

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.:
.
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the completion/delivery schedule specified in the bid document, the following Goods and Related Services:
- (c) Our Bid shall be valid for a period of _____days from the date fixed for the bid submission deadline in accordance with the Bidding Document, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) If our Bid is accepted, we commit to obtain a Performance Security in the amount of _____ percent of the Contract Price for the due performance of the Contract;
- (e) We are not participating, as Bidders, in more than one Bid in this bidding process;
- (f) 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.
- (g) Our firm, its affiliates or subsidiaries, including any Subcontractors or Suppliers for any part of the contract, has not been declared ineligible by AEGCL,APDCL or APGCL under the Employer's country laws or official regulations
- (h) 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

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Price Proposal Submission Sheet

Date:

Tender No.:

Invitation for Bid No.:

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Document, including Addenda No.:
- (b) We offer to supply in conformity with the Bidding Document and in accordance with the completion/delivery schedule specified Schedule of Supply & Erection, the following Goods and Related Services:
- (c) The total price of our Bid, excluding any discounts offered in item(d) below is:

- (d) The discounts offered and the methodology for their application are:

- (e) The following commissions, gratuities, or fees have been paid or are to be paid with respect to the bidding process or execution of the Contract:

Name of Recipient	Address	Reason	Amount

(If none has been paid or is to be paid, indicate “none.”)

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Bidding Forms:**Name of work**

Bid Identification No:

General

- (i) Name of the Firm/Contractor:
- (ii) Full Address:
- (iii) Constitution of the Firm:
 - a) Whether Partnership or any type:

A) Experience as Clause 9 in the bid

- a) No of years the Firm/Contractor has been in operation under its present name.
- b) Testimonials from Clients Company on various works executed.

(Details of works executed/under execution in the last three years including other department)

Sl. No.	Name of work & W/O No.	Worked Done Under	Value of Work	Present status/completed on

B) Financial Position

- i. Financial Turnover during the last recent year (copies of Audited Annual report, Accounts or a statement duly certified by a chartered accountant and Income Tax return.

Year	Turnover

Any other details that the tenderer may like to furnish to substantiate their financial and technical ability to undertake this work and complete the same within stipulated period of completion.

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

Form of Bid Security (Bank Guarantee)

(To be stamped in accordance with Stamp Act)

(The non-Judicial Stamp Paper should be in the name of issuing Bank)

Date: _____

Bid Reference No.: _____

WHEREAS, _____ [*Name of Bidder*] (hereinafter called "the Bidder") has submitted his bid dated _____ [*Date*] for the supply of _____ [*Name of Contract*] (hereinafter called "the Bid").

KNOW ALL MEN by these presents that We _____ [*Name of Bank*] of _____ [*Name of Place*] having our registered office at _____ (hereinafter called "the Bank") are bound unto _____ [*Name of Purchaser*] (hereinafter called "the Purchaser") in the sum of _____ 1 for which payment well and truly to be made to the said Purchaser the Bank binds himself, his successors and assigns by these presents.

SEALED with the Common Seal of the said Bank this ____ day of _____ 20____.

THE CONDITIONS of this obligation are:

- 1) If the Bidder withdraws its Bid during the period of bid validity specified by the Bidder in the Bid Submission Sheet, except as provided in the relevant Bid **Clause**;
Or
- 2) If the Bidder refuses to accept the correction of errors in his Bid;
Or
- 3) if the Bidder, having been notified of the acceptance of his Bid by the Employer during the period of Bid validity;
 - a) fails or refuses to execute the Form of Contract Agreement in accordance with the Instructions to Bidders, if required; or
 - b) fails or refuses to furnish the Performance Security, in accordance with the Instructions to Bidders;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or all of the three conditions, specifying the occurred condition or conditions.

This Guarantee will remain in force up to and including the date days after the deadline for submission of bids as such deadline is stated in the Instructions to Bidders or as it may be extended by the Purchaser, notice of which extension(s) to the Bank is hereby waived. Any demand in respect of this Guarantee should reach the Bank not later than the above date.

DATE _____ SIGNATURE OF THE BANK

WITNESS _____ SEAL

(Signature, Name, and Address)

ANNEXURE:II

Following information is to be furnished in the 'Technical and Commercial bid' as first page.

(Please tick mark where necessary.)

1)	Earnest money (EMD)	:Submitted/Not submitted
	a) Amount of EMD	:Rs.
	b) Submitted in the form of	
	Bank Guarantee /Demand Draft	: Yes/No.
2)	Validity of the offer	: days from the date of opening of 'Technical & Commercial Bid' & 'Price bid'.
3)	Nature of price offered	
	i) 'FIRM' Price	: Yes/No
4)	Terms of payment (Whether agreeable to accept payment as specified in clause- 323)	: Yes/No
5)	Date of completion of supply (Please specify the date of completion of supply/Erection as per specification)	: Yes/No
6)	List of orders executed for similar works furnished	: Yes/No
7)	Performance certificate from the Govt/Govt undertaking furnished	: Yes/No
8)	Deviation from the specifications	
	a) Technical	: Yes/No
	b) Commercial	: Yes/No
9)	Information in respect of technical capability is furnished	: Yes/No
10)	Information in respect of Financial capability certificate from the Banker is furnished	: Yes/No
11)	PAN card as per Cl. No. 15.2	: Yes/No
12)	GST registration no. as per Cl. No. 15.5	: Yes/No
13)	Registered Power of Attorney as per Cl.no. 15.6 enclosed.	: Yes/No

Name of the Bidder:-

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

ANNEXURE A&B

A.

Type of Works	Key Input/Process Involved	Acceptable ITC Utilization Ration
EHV GSS	• Material Supply • Freight & Insurance • Erection and civil works	80% (Maximum)
EHV Transmission Lines	• Material supply • Freight & Insurance • Erection and Civil works	80% (Maximum)

B.

Type of Works	Key Input/Process Involved	Acceptable ITC Utilization Ration
RCC Building	As per PWD Building	70% (Maximum)
Road Works	Bitumen/paver block, gravel, sand, etc.	30% (if contractor has own quarry) 40% (if contractor does not have own quarry)
ICBP Road work	ICBP, Gravel, sand, Road Furnisher etc	40% (if contractor has own quarry) 50% (if contractor does not have own quarry)

ANNEXURE-C

Certified that in discharging the outward tax liability by ITCs all the provisions of GST Acts, Rules and notifications made therein are complied with including the following provisions:

- Goods and services relating to ITCs have actually been received.
- ITCs has been availed strictly in compliance with provisions under Section 16(2) (aa).
- Tax relating to ITCs has actually been paid to the government.
- No ITCs, though reflected in GSTR2B, availed if it is restricted by Section 38(2)(b).
- No ITCs, though reflected in GSTR2B, availed if it is blocked by Section 17(5).
- No ITCs in excess of input goods and services utilized actually in the projects/ works, are utilized to discharge the liabilities.
- In no case, utilization of ITCs in discharging liabilities exceeds the upper limit as prescribed by contractee department.

The above facts are true to the best of my knowledge.

Signature & seal of contractor