

ASSAM ELECTRICITY GRID CORPORATION LIMITED
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Bidding Document

For

Supply, Erection, Testing & Commissioning of 48V 165AH VRLA Battery Bank along with 50A Float & 50A Float cum Boost Battery Charger for 165Ah VRLA Battery Bank at 132 kV Srikona GSS, Under Silchar T&T Division AEGCL

DEPUTY GENERAL MANAGER
SILCHAR T&T CIRCLE
AEGCL, SRIKONA, SILCHAR-788026

Tender Cost:	₹1,000.00
EMD:	₹12,500.00

For & on behalf of the **Managing Director, AEGCL, the Deputy General Manager, Silchar T&T Circle, AEGCL, Silchar-26**, 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 Cost In INR	Time of Completion In Days	Bidding Address
1	Supply, Erection, Testing & Commissioning of 48V 165AH VRLA Battery Bank along with 50A Float & 50A Float cum Boost Battery Charger for 165Ah VRLA Battery Bank at 132 kV Srikona GSS, Under Silchar T&T Division AEGCL .	6,20,680/-	150 days from the date of issue of Supply order	O/o The DGM, Silchar T&T Circle, AEGCL, 132 kV Srikona GSS campus, Srikona, Silchar-26

1.0 Cost of Bidding Document:

Bidder has to pay Non-Refundable tender document cost of **Rs.1,000.00** (Rupees One Thousand) only in the form of A/C payee Demand draft (Non-refundable) pledged in favour of “Managing Director, AEGCL, Paltan Bazar, Guwahati-01” , payable at Guwahati.

2.0 Bidding Address:

Tender papers can be purchased on application in plain paper from the **Deputy General Manager, Silchar T&T Circle, AEGCL, Silchar.**

3.0 Key Dates: -

a) Bid Document available in Website	11:00 hrs. of 30.01.2026
b) Bid Submission Start Time & date:	11:00 hrs. of 02.02.2026
c) Bid Submission end time & date:	14:00 hrs. of 23.02.2026
d) Techno-Commercial Bid Opening time:	11:30 hrs. of 24.02.2026

4.0 Bidding Procedure :

a) All Tenders shall have to be submitted in prescribed forms attached herewith eventually to be drawn up in the rules of AEGCL.

b) Two different envelopes to be used as follows:-

Envelope-1 (Technical Bid): Bid document signed by the bidder on all pages, Tender fee, Earnest Money, Techno-commercial data of the Bidder, GTP and other mandatory documents must be enclosed.

Envelope-2 (Price Bid): As per format of the Price Bid attach.

- c) All tenders shall have to be submitted under **sealed & signed** covers super-scribing the **Tender Notice No** and **Name of the Work** completely and clearly on the top of the corner.
- d) All tenders shall have to be submitted/drop in the concerned tender box on or before the last date and time of submission of tenders either by post or in person.
- e) If Bidders desire to submit their Bid by post, at their own expenses, it should be posted well in advance so as to ensure that their tenders reach the office of the tendering address on or before the specified date and time of submission of tender. AEGCL will not take any responsibility for loss, damage, tempering or delay of tenders sent by post.
- f) Bidder submitting Bid in person should submit their Bid in the tender box during the working hours on or before the last date and time of submission of tender.
- g) Tender will be rejected if submitted beyond the aforesaid time and date.
- h) AEGCL has the right to cancel the tender at any moment, without assigning any reason thereof. Bidder will not be entitled to claim any expenses and AEGCL will not be responsible for any costs or expenses incurred on the preparation and submission of the Bids.

5.0 Validity of Bids and Bids Prices:

- a) 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.
- b) 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.

6.0 Bid Security:

- a) All bids must be accompanied by a bid security amounting to **Rs. 12,500.00** only in the form of **Demand Draft** from any Nationalized Bank payable at Guwahati in favour **“Managing Director, AEGCL, Paltan Bazar, Guwahati-01”, payable at Guwahati.**
- b) Any bid not complying with the terms and conditions then his bid shall be rejected by the Employer as non-responsive.
- c) The earnest money of the successful Bidder shall be returned when the successful Bidder has signed the Contract and furnished the required performance security.
- d) The earnest money of the unsuccessful Bidders shall be returned as promptly as possible when the successful Bidder has signed the Contract.
- e) The earnest money 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.
- f) The Bid Security of a JV shall be in the name of the JV that submits the bid.

7.0 Format and Signing of Bid:

- a) The Bidder shall prepare one original copy of the Technical Bid and one original copy 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.

- b) 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.
- c) A bid submitted by a JV shall be signed so as to be legally binding on all partners.
- d) Any interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.

8.0 Eligible Bidders:

- a) 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:
 - All partners shall be jointly and severally liable, and
 - 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.
- b) 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.
- c) AEGCL considers a **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.
- d) 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. Bidders shall provide such evidence of their continued eligibility satisfactory to the AEGCL, as the Employer shall reasonably request.

9.0 Financial Capability:

- a) 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 **last 3 (three) years** 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.

- b) **Average Annual Turnover:** Minimum average annual turnover **INR 1,86,204.00/-** calculated as total certified payments received for contracts in progress or completed, within the last 3 (Three) Years.

10.0 Work Experience:

- a) Experience on similar nature of works under contracts in the role of manufacturers, contractor, subcontractor, or management contractor for at least the last 5 (Five) years prior to the bid submission deadline.
- b) The Bidder should have successfully completed similar works within last 5 (Five) Financial years. Documentary evidence such as Work Order, Completion Certificate, etc. should be submitted as per below mentioned criteria:
- **Three (3) similar** completed works costing not less than **Rs.2,48,272.00**
 - **Two (2) similar** completed works costing not less than **Rs. 3,10,340.00**
 - **One (1) similar** completed works costing not less than **Rs 4,96,544.00**
- c) The Bidder must have experience of executing work of similar nature previously in AEGCL/APDCL or any other government organization or PSU. The bidder must submit experience and completion certificate for scrutiny by AEGCL. Each of such project/works should consist of completion certificate.

11.0 Evaluation Criteria:

- a) **Evaluation will be done on the basis of *Bid Clause* No. 8.0 : Eligible Bidders, Cl. No. 9.0 : Financial Capability, Cl. No. 10.0 : Work Experience and in accordance with the Annexure I to be duly filled in, signed and submitted by the bidder.**
- b) Price Bid of only **Responsive and Qualified Techno-Commercial Bidders** will be opened.
- c) **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.

12.0 Correction of Errors in the Price Bid:

- a) **Arithmetical Error**, if observed while in Price Bid evaluation, same will only be corrected.
- b) Arithmetic Errors in the Price Bid will be rectified on the following basis:
- If there is a discrepancy between the unit rate and the total cost that is obtained by multiplying the unit rate and quantity, the unit rate shall prevail and the total cost will be corrected unless in the opinion of AEGCL there is an obvious misplacement of the decimal point in the unit rate, in which case the total cost as quoted will govern and the unit rate corrected. If there is a discrepancy between the total bid amount and the sum of total costs, the sum of total costs shall prevail and the total bid amount will be corrected.
 - The amount stated in the Price Bid will be adjusted by AEGCL in accordance with the above procedure for the correctness of errors and shall be considered as binding upon the bidder. If the bidder does not accept the corrected amount of bid, its bid will be rejected, and the bid security may be forfeited.
- c) **Any post bid correction request will NOT BE ENTERTAINED.**

13.0 Bid Evaluation Process for Abnormally Low Bids (ALB):

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

- (a) **Identification:** For the Identification of the Abnormally Low Bids, two approaches as applicable shall be adopted :-

(i) **Absolute Approach:** When there are fewer than five substantially responsive bidders and if the bid price is 20% or more below the 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:-**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.

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

(b) In case of an ALB, the tender evaluation committee of the respective tenders shall undertake the following three stage review process which are as below:

- i. Identify ALB as per the steps mentioned in Clause No. (a). (i) and (a). (ii), whichever is applicable.
- ii. To seek and analyses 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.
- iii. To decide whether to accept or reject the bid.

(c) Additional Performance Security In case of acceptance of ALB:

- i. 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.
- ii. 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.
- iii. 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.

14.0 Late Bid:

- a) Any bid submitted *after the due date and time* will be rejected without any prejudice.
- b) 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.
- c) Bidding through **EMAIL WILL NOT BE ACCEPTED.**

15.0 Clarification on Bid Documents and Contacting AEGCL:

- a) A prospective Bidder requiring any clarification of the Bidding Document shall contact the AEGCL in writing at the AEGCL's address (**O/o the Deputy General Manager, Silchar T&T Circle, AEGCL, Silchar-788026**) and 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.

- b) 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.
- c) 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.

16.0 Amendment of Bidding Document:

- a) At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addenda.
- b) 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.
- c) 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.

17.0 Preparation of Bids by the Bidders:

- a) **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.
- b) **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.

18.0 Bid Prices and Discounts:

- a) Bidders shall quote price inclusive of GST and all other applicable taxes. No extra calculation for discounts or other taxes will be done during evaluation.
- b) 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.

- c) Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding document.
- d) 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.
- e) Since 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.
- f) 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.

g) **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.

19.0 Mandatory Documents:

- i) Bidders(s) knowledge from actual personal investigation of the resources of the region or District (S) in which he/they offers the work.
- ii) The Bidder shall furnish copy of their **PAN Card**. In case the bidder is a partnership Firm, the **PAN** card must be in the name of firm.
- iii) In case the bidder is a partnership Firm, the **work experience, solvency and turn over** shall be in the name of **partnership Firm** only.
- iv) **GST registration No.**
- v) **Registered Power of attorney, if any.**
- vi) **IT Return for last three Years.**
- vii) **Audited Balance Sheet for last three years.**
- viii) **Electrical License above 33kV Voltage level.**
- ix) **Valid Labour License**
- x) **Manufacturing Authorization**
- xi) **Guaranteed Technical Particulars**

20.0 SCOPE OF WORK:-

20.1 Intent of specification:

This section of the specification deals with the technical information & criteria for “**Supply, Erection, Testing & Commissioning of 48V 165AH VRLA Battery Bank along with 50A Float & 50A Float cum Boost Battery Charger for 165Ah VRLA Battery Bank at 132 kV Srikona GSS, Under Silchar T&T Division AEGCL** ” The Contractor's proposal shall be based on the use of materials complying fully with the requirements specified herein.

20.2 Scope of Works :-

The various activities under the scope of work shall among other related aspects cover the following:-

- a) **Supply, Erection, Testing & Commissioning of 48V 165AH VRLA Battery Bank along with 50A Float & 50A Float cum Boost Battery Charger for 165Ah VRLA Battery Bank at 132 kV Srikona GSS, Under Silchar T&T Division AEGCL .**

- b) Loading at manufacturer's works, transportation and delivery at the substation site, including unloading at destination site.
- c) Freight & Transit Insurance, storage at site and site insurance of all materials at site shall be in the scope of the contractor.
- d) Arrangements of any permits required for transportation and movement of supplied materials. However, AEGCL shall assist as far as practicable in the process.

20.3 Supplier to Inform himself fully:-

- 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.
- The Purchaser shall not be responsible for any misunderstanding or incorrect information obtained by the contractor other than information given in writing by the Purchaser.

20.4 Service Conditions:-

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

Peak ambient day temperature in still air	: 45⁰C
Minimum night temperatures	: 0⁰C
Reference ambient day temperature	: 45⁰C
Maximum Relative Humidity	: 100%
Minimum Relative Humidity	: 10%
Altitude	: Below 1000 M above MSL
Maximum Wind Pressure	: As per IS:802 latest code
Seismic Intensity	: ZONE-V as per IS 1893

20.5 Conformity with Indian Electricity Rules & Other Local Regulations:-

- 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 regulations relating to such works shall be consulted, if necessary, about the rules and regulations that may be applicable.
- 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.

20.6 Standards:-

- 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.
- In case of any conflict between the standards and this specification, this specification shall govern.
- Equipment conforming to other International or authoritative Standards which ensure equivalent or better performance than that specified above shall be accepted. In that case relevant extracts of the same shall be forwarded with the bid.

20.7 Engineering Data:-

- 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.
- All engineering data submitted by the supplier after review by the Purchaser shall or part of the contract document.

20.8 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 Purchaser's 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.

20.9 Employer's Supervision:-

- a) 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.
- b) The manufacturing of the product shall be carried out in accordance with the specifications. The scope of the duties of the Employer, pursuant to the contract, will include but not be limited to the following.
 - Interpretation of all the terms and conditions of these Documents and Specifications.
 - Review and interpretation of all the Contractors drawings, engineering data etc.
 - 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.
 - Inspect, accept or reject any equipment, material and work under the Contract, in accordance with the Specifications.
 - Issue certificate of acceptance and/or progressive payment and final payment certificate.
 - Review and suggest modification and improvement in completion schedules from time to time,
 - Supervise the Quality Assurance Programme implementation at all stages of the works.

20.10 Inspection and Inspection Certificate:-

- The Employer, his duly authorized representative and/or outside inspection agency acting on behalf of the Employer 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.

- 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 labours, materials, electricity, fuel, water, stores apparatus and instruments as may be reasonably demanded by the Employer/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.
- If desired by the Employer, the Contractor shall also carry out type tests as per applicable Standards for which Employer shall bear the expenses except in cases where such tests have to be carried out. 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). However, these type test charges shall not be taken into account in comparing Price Bid.
- The inspection by Employer 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.

20.11 Tests:-

- The type, acceptance and routine tests and tests during manufacture to be carried-out on the material and equipment shall mean as follows:
 - a) **Type Tests:** - 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.
 - b) **Acceptance Tests:** - Acceptance Tests shall mean those tests, which are to be carried out on samples taken from each lot offered for pre-dispatch inspection, for the purposes of acceptance of that lot.
 - c) **Routine Tests:** - 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.
 - d) **Tests during Manufacture:** - 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.
- 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 Employer.
- 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 Employer in the Quality Assurance Programme.
- 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.

20.12 Guaranteed Technical Particulars:-

- 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's as in their opinion is needed to give full description and details to judge the item(s) offered by them.
- 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.

20.13 Materials Handling and Storage:-

- 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.
- 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.
- 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.
- 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.
- All the materials stored in the open or dusty location must be covered with suitable weather-proof and flameproof covering material wherever applicable.
- The Contractor shall be responsible for making suitable indoor storage facilities, to store all items/materials, which require indoor storage.
- 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.

21.0 TECHNICAL SPECIFICATIONS CHART of 48 V, 165 Ah VRLA Battery Bank:-:-

SLNo.	Description		Details	
1.	Capacity in Ah			
a)	At 27°C			
i)	Initial		165	
ii)	Rated		165	
iii)	End of Life		132	
b)	Rated Capacity (in Ah) at minimum ambient temperature of (as per IS 15549 : 2005)		Formula : $C_t = \{ 1 + 0.0043 (t-27) \}$	
c)	Rated Capacity(in Ah) at maximum ambient temperature of (as per IS 15549 : 2005)		Formula : $C_t = \{ 1 + 0.0043 (t-27) \}$	
2.	Capacity at Various Discharge Rates at 27°C			
	Period of Discharge	Ah capacities	Discharge Current (Amps)	End Cell Voltage (Volts)
	10Hr	165.00	16.5	1.75
	9Hr	161.54	17.9	1.75
	8Hr	156.75	19.6	1.75
	7Hr	151.31	21.6	1.75
	6Hr	145.04	24.2	1.75
	5Hr	137.45	27.5	1.75
	4Hr	129.03	32.3	1.74
	3Hr	118.31	39.4	1.74
	2Hr	104.45	52.2	1.7
	1Hr	82.50	82.5	1.7
	50 min	77.06	92.5	1.7
	40 min	70.95	106.5	1.7
	30 min	66.00	132.0	1.7
	20 min	59.40	178.4	1.7
	15 min	49.29	197.1	1.7
	10 min	36.02	217.0	1.7
	5 min	20.28	243.4	1.7
	1 min	6.06	364.8	1.7
3.	Maximum Momentary Current for 1 min up to cut off voltage of 1.6 V		495	Amps
4.	Expected Fault at bus due to battery		990	Amps
5.(i)	Short Circuit Current at Battery terminals		990	Amps
(ii)	Time for which the battery can withstand short circuit at terminals		5 Sec	

6.	Type/No. of Negative Plates per cell	Flat pasted, 5
7.	Type/No. of Positive Plates per cell	Flat pasted 4
8.	Size of negative plates, mm	270(L) x 140(W) x 2.85 (+/- 1) (Thk)
9.	Size of positive plates, mm	270(L) x 140(W) x 4.5 (+/- 1) (Thk)
10.	Type of Connection between cells	Bolted rigid copper connectors
11.	Type of Separators	Absorptive glass mat
12.	Thickness of Separators	4.5 (2 layers of 2.25 mm each)
13.	Dimension of 2 volts cell (LxWxH) , mm	166.5(+/-3) x 89.5(+/-3) x 391.5 (+/- 5 mm)
14.	Clearance between the bottom of the plates and container	5 mm
15.	Material of Container	Polypropylene Co-polymer

SLNo.	Description	Details
16.	Recommended Charging Rate	
(i)	Float Charging Voltage	2.25-2.27 Vpc
	Ambient Temperature - 20°- 35 ° C	+3 mV/ ° C/cell over nominal charge voltage
	Ambient Temperature - <20°	-3 mV/ ° C/cell over nominal charge voltage
	Ambient Temperature - >35 ° C	
(ii)	Float Charging current	33 Amps (Max)
(iii)	Trickle Charging Voltage	NA
(iv)	Trickle Charging Current	NA
(v)	Boost Charging Voltage	2.35 Volts
(vi)	Boost Charging Current	33 Amps.
(vii)	Time taken to full charge from 100% discharge state	16-18 Hrs at Boost Voltage @ 30% limit Current 36 Hrs at Float Voltage @ 30% limit Current
(viii)	Equalising Charge Current : Voltage	NA
17.	Guaranteed efficiencies at 10 hrs rate	
	a) Ampere-hour efficiency	90%
	b) Watt-hour efficiency	80%
18.	Ripple Current	<5% of Ah
19.	Allowable Voltage ripple	<1% RMS
20.	Internal Resistance of each cell at Fully Charged Condition	1.04 mill ohms min
21.	Total Resistance of Battery ; milliohms	Depending on no. of cells
22.	Overall Dimensions of each complete module with Top Cover (LxWxH) in mm	Length 588 +/- 5, Width 415 +/-5(with base member).width 452 +/- 5(with base member). Height 397+/-5 (w/o base member): (12 cells module):
23.	Weight of unpacked and complete module with electrolyte	135+/-5% Kgs (Single 12 cells module)
24.	: Kgs	
	Material of Modules	Power coated MS
25.	Whether explosion vents are offered	Yes, self re-sealing rubber safety valve with flame arrestor
26.	Loss of capacity due to self discharge	< 0.5% per week of c-10 capacity

27.	The period for which the battery should be stored after supply in charged conditions	If stored in Indian ambient temp of 27 °C cells will need freshening charge once in every three months, however if stored at higher or lower temperature freshening charge to be provided as recommended
28.	Amount of Hydrogen evolved during normal Normal float charging	Less than 200ppm normal float condition
29.	Recommended interval at which battery should be discharged at 10 hrs discharge rate	Once annually
30.	No. of charge-discharge cycle battery can give during its entire life at 27 °C At 20%DOD At 50%DOD At 70%DOD	4000 cycles 1800 cycles 1400 cycles
31.	Expected Life of Battery in years	20 Yrs at 27 °C in ideal float condition.
32.	Applicable Standard	IEC 60896 - 21 & 22, JIS : C 8704-2, : 1998 ANSI T1 330, GR/BAT-01/03-MARCH 2004, IS 15549 : 2005

22.0 TECHNICAL SPECIFICATION OF AUTOMATIC 48V 50A FLOAT AND 50A FLOAT CUM BOOST BATTERY CHARGER FOR 165 AH VRLA BATTERY

SLNo.	Description
1.	Scheme : 48V 50A Float and 50A Float Cum Boost Battery Charger
2.	Type : Full Wave Full Controlled (3ph.)
3.	Type of battery : 165AH VRLA, 2V/ Cell, 55 Nos.
4.	AC INPUT Voltage : 415V AC \pm 10% Frequency : 50Hz \pm 5% Phase : Three phase 4-wire
5.	DC OUTPUT (Float Charger) Voltage : Auto : 54Volts (2.25V / Cell) Manual : 0 to 54Volts (2.25V / Cell) Output Current : 50 A (including trickle charging of the battery) Output Ripple : Less than 3% rms at full rated output voltage and current. Steady state voltage regulation : Not exceeding \pm 1% for \pm 10% supply fluctuation and 10 to 100% load variation. Output voltage/current stability : Within \pm 1% of set value. Control power circuitry : 3 phase full wave full control thyristorised Bridge fed thru' 3 phase double wound transformer and controlled by automatic voltage and current controller unit with current limiting feature. Mode of Operation : Automatic / Manual
6.	DC OUTPUT (Float Cum Boost Charger) Voltage : Float Mode Auto : 54Volts (2.25V / Cell) Manual : 0 to 54Volts (2.25V / Cell) Boost Mode : 55.2Volts (2.3V/Cell) Output Current : 50A maximum

	<p>Float Mode : 50A including trickle charging current of battery.</p> <p>Boost Mode : 33A (20% of AH Capacity)</p> <p>Output Ripple : Less than 3% rms at full rated output voltage and current.</p> <p>Steady state voltage : Not exceeding +/-1% for +/-10% supply regulation fluctuation and 10 to 100% load variation. Output voltage/current : Within +/-1% of set value. stability</p> <p>Control power circuitry : 3 phase full wave full control thyristorised</p>
7.	<p>bridge fed thru' 3 phase double wound transformer and controlled by automatic voltage and current controller unit with current limiting feature.</p> <p>Mode of Operation : Automatic / Manual</p>
8.	<p>Measuring Meters : Following Digital Type Meters will provided in the system for measuring the respective parameters.</p> <p>a. AC Input Voltmeter with selector switch</p> <p>b. Charge/Discharge Battery Current Ammeter</p> <p>c. Output DC Voltmeter (FC, FCB, Load & Battery) with selector switch</p> <p>d. Output Current Ammeter (FC & FCB & LOAD)</p>
9.	<p>INDICATIONS : Cluster LED Lamps provided for the following conditions</p> <p>a. AC Mains ON (R, Y, B)</p> <p>b. Output DC ON (Float-FC &FCB)</p> <p>c. Output DC ON (Boost-FCB)</p> <p>Following annunciation will be provided for the following abnormal conditions with test, accept & reset push button:</p> <p>a. AC Supply Unhealthy</p> <p>b. DC Over Voltage</p> <p>c. DC Under Voltage</p> <p>d. DC Over Current (FC &FCB)</p> <p>e. Charger Fail (FC & FCB)</p> <p>f. DC Earth Fault</p>
10.	<p>PROTECTIONS : Following protections will be provided in the system.</p> <p>a. AC Input MCB/MCCB for chargers</p> <p>b. Output DC MCB/MCCB for chargers</p> <p>c. Fast Acting Semiconductor Fuses for the rectifier bridges for charger</p> <p>d. Charger current Limit Protection</p> <p>e. AC Supply unhealthy protection.</p> <p>f. Load over voltage and under voltage protection.</p> <p>g. Blocking Diode.</p> <p>h. Battery Input MCB/MCCB</p> <p>i. Over current protection.</p>
11.	<p>SWITCHES & CONTROLS : Following switches and controls are provided in the Systems</p> <p>a. AC input MCB/MCCB (FC & FCB)</p> <p>b. Auto / Manual Selector Switch (FC & FCB)</p> <p>c. DC voltmeter selector switch</p> <p>d. AC Voltmeter Selector Switch</p> <p>e. Lamp and socket power supply ON/OFF Toggle Switch</p>
12.	<p>SPECIAL FEATURES : Following special features are provided in the system.</p> <p>a. Soft start on DC side.</p> <p>b. Class-F insulation for all magnetic.</p> <p>c. Automatic voltage and current regulation</p> <p>d. Filter circuit to limit ripple.</p> <p>e. Charger current limiting.</p>
13.	<p>GENERAL :</p> <p>a. Cabinet : Freestanding cabinet, floor mounting type, sheet steel construction, easy access for</p>

		installation and maintenance, components are accessible from front / rear, cable entry at bottom
	b. Protection	: IP 42
	c. Temperature range	: 0°C to 50°C of operation
	d. Relative humidity	: 0% to 95% non-condensing.
	e. Paint	: RAL 7032
	f. Dimension	: Shall be provided during detail engineering.
	Sheet thickness	: 2mm

23.0 SITE VISIT:-

The interested bidders are advised to visit the site and examine the site of works and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid. The costs of visiting the Site shall be at the bidder's own expense.

24.0 Contract Agreement:-

An agreement shall have to be drawn on non-judicial stamp of appropriate value with the Department by the selected Contractor in **AEGCL's General Conditions of Supply and Erection 2009** of contract within **15 (fifteen) days** from the date of issue of the **LOI/Work Order**.

25.0 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:

- a) 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.

- b) 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.

26.0 Warranty:-

- a) The contractor warrants that all 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. The term period of warranty shall mean the period of **18 months** from the date of the materials are received at site in good and acceptable condition. If during the period of warranty, any defect is found, the Contractor shall rectify all defects in design, materials and workmanship that may develop under normal use of the equipment upon written notice from the Purchaser who shall indicate in what respects the equipment is faulty. The rectification / free replacement must be carried out within a reasonable time period and at free of cost.

- b) In the event of any emergency, where in the judgment of AEGCL, delay would cause serious loss or damages, repairs or adjustment may be made by the engineer or a third party chosen by the engineer without advance notice to the contractor and the cost of such work shall be paid by the contractor. In the event such action is taken by the engineer, the contractor will be notified promptly and he shall assist wherever possible in making necessary corrections. This shall not relieve the contractor of his liabilities under the terms and conditions of the contract.
- c) If it becomes necessary for the contractor to replace or renew any defective portions of the works, the provision of this clause shall apply to portion of the works so replaced or renewed until the expiry of twelve (12) months from the date of such replacement or renewal.
- d) The repaired or new parts will be furnished and erected free of cost by the contractor. If any repair is carried out on his behalf at the site, the contractor shall bear the cost of such repairs.
- e) The acceptance of the equipment by the Employer shall in no way relieve the contractor of his obligation under this clause.
- f) In the case of those defective parts, which are not repairable at site but are essential for the commercial operation of the equipment, the contractor and the engineer shall mutually agree to a programme of replacement or renewal, which will minimize interruption to the maximum extent in the operation of the equipment.

27.0 Payment terms:-

- **No advance payment** shall be made in this contract.
- No claim for interest shall be entertained by AEGCL.
- The price is firm and no price variation shall be applicable.
- First & Final bill for the supply will be entertained only after **100%** completion of the work.
- Payment will be made by **DGM, Silchar (T&T) Circle, AEGCL, Srikona, Silchar-26**. The Bidder / Firm will have to be submitted the following Net Banking details.
 - Banker's Name & Branch
 - Account No
 - Banker's address
 - Banker's IFSC Code

28.0 Performance Security Deposit:-

- a) The successful bidder shall have to deposit through a **Bank Guarantee** from a Nationalized or scheduled Bank of RBI in AEGCL's standard proforma on non-judicial stamp of appropriate value for an amount equivalent to **10% (ten percent)** of the total value of the order as performance security, immediately within **10 (ten) days** from the issue of the letter of intent/detailed orders (as the case may be), duly pledged in favour of **"Managing Director, AEGCL, Paltan Bazar, Guwahati-01"**, payable at Guwahati, and such security deposit shall be **valid up to 30 (Thirty) days** beyond the **warranty period of 18 (Eighteen) months**. The **Bank Guarantee (BG)** should be submitted to the **O/o the Deputy General Manager, Silchar T&T Circle, AEGCL, Silchar-788026** by the successful Bidder.

- b) Please note that, if the selected Bidder / Firm fail to furnish the requisite performance security in the form of **Bank Guarantee**, an amount equivalent to **10%** of the Contract Price shall be retained as Security Deposits which shall be retained up to **18 (Eighteen) months** from the date of Supply.
- c) If the bidder / firm fails or neglects to observe and perform any of his obligations under the contract, Purchaser (AEGCL) shall have the right to forfeit either in full or in part at his absolute discretion, the security deposit furnished by the Contractor/Firm.
- d) No interest shall be payable on such deposits.

29.0 Force Majeure Condition:

Force Majeure condition 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 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.

30.0 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 Cachar District.

31.0 Insurance :

- a) 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.
- b) 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.
- c) 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.
- d) 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.
- e) 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.

32.0 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 Tab.

Appendix-1

Letter of Technical Bid

[Bidder's Letter head]

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:
- (iv) Whether Partnership or any type:

A) Experience

- (i) No of years the Firm/Contractor has been in operation under its present name.
- (ii) Details of work executed/being executed by the tenderer in the last three years.
- (iii) Testimonials from Clients Company on various works executed for the last three years.

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

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

B) Financial Position

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

Year	Turn over

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.

PRICE BID

(To be submitted in the Part-II, 'Price bid' in sealed envelope in quadruplicate)

Name of the Bidder:

NIT No. AEGCL/STTC/Tech-12/2025-26/26

Dated: 29.09-2026

Name of work: Supply, Erection, Testing & Commissioning of 48V Battery Bank along with 50A Float & 50A Float cum Boost Battery Charger for 165Ah VRLA Battery Bank at 132 kV Srikona GSS, Under Silchar T&T Division AEGCL.

Supply of 48 V battery bank & Float and Float cum Boost Charger including Freight & Insurance at 132 kV Srikona GSS, AEGCL

Sl. No.	Item description	Unit	Qty	Unit Price in (Rs.)	F&I in (Rs.)	Total in (Rs.)
1	48 V Charger					
1.1	Automatic 50A float and 50A float cum boost charger suitable for 48V 165AH VRLA Battery as per specification.	Set	1			
2	Battery Bank					
2.1	48V DC, 165AH lead acid battery of VRLA type complete with accessories as per specifications with 10% spare acid in non returnable container.	Set	1			
Sub Total(A)=						

Erection, Testing & Commissioning of 48 V battery bank & Float and Float cum Boost Charger at 132 kV Srikona GSS, AEGCL.

Sl. No.	Item description	Unit	Qty	Unit Price in (Rs.)	Total in (Rs.)
1	48 V Charger				
1.1	Automatic 50A float and 50A float cum boost charger suitable for 48V 165AH VRLA Battery as per specification.	Set	1		

2	Battery Bank				
2.1	48V DC, 165AH lead acid battery of VRLA type complete with accessories as per specifications with 10% spare acid in non returnable container.	LS	1		
Sub Total (B)=					
Sub Total (A+B)=					
Add 18% GST on Sub Total=					
Grand Total including GST=					

Rupees in words _____

Name of the Bidder: -

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

ANNEXURE – I

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- 27.0)	: Yes/No
5)	Date of completion of supply (Please specify the date of completion of supply as per specification)	: Yes/No
6)	'Security and performance guarantee' (Whether agreeable to accept as specified in Clause no- 28.0)	: Yes/No
7)	List of orders executed for similar works furnished	: Yes/No
8)	Performance certificate from the Govt./Govt. undertaking furnished	: Yes/No
9)	Deviation from the specifications	
	a) Technical	: Yes/No
	b) Commercial	: Yes/No
10)	Information in respect of technical capability is furnished	: Yes/No
11)	Information in respect of Financial capability certificate from the Banker is furnished	: Yes/No
13)	PAN card as per Cl. No. 19.0 (ii)	: Yes/No
14)	GST registration no. as per Cl. No. 19.0 (iv)	: Yes/No
15)	Registered Power of Attorney as per Cl.no. 19.0 (v) enclosed.	: Yes/No

Name of the Bidder: -

Signature of the Bidder/Firm

Full Name

Postal Address

Phone/Mobile No.

**GUARANTEED TECHNICAL PARTICULARS FOR 48 V/165 AH VRLA
BATTERY BANK**

(To be filled in and signed by the Bidder)

<u>SL NO.</u>	<u>DESCRIPTION</u>	<u>PARTICULARS</u>
		48 V/165 AH
1.	Name & Address of Supplier & Manufacturer	
2.	Battery Rating	
3.	Manufacturer's type designation	
4.	Model Name/ Model Number	
5.	Applicable Standards	
6.	Nominal Cell Voltage (V)	
7.	Nominal Cell Capacity in ampere hour (AH)	
8.	<u>Read Capacity in Ampere Hour (Ah) at 27°C :-</u>	
	(a) 20 hrs., 1.75 V/Cell	
	(b) 10 hrs., 1.75 V/Cell	
	(c) 3 hrs., 1.7 V/Cell	
	(d) 1.5 hrs., 1.7 V/Cell	
	(e) 1 hrs., 1.6 V/Cell	
	(f) 30 Mins., 1.6 V/Cell	
9.	<u>Dimension :-</u>	
	a) Overall Height	
	b) Height upto lid Top	
	c) Length	
	d) Width	
10.	Weight	
11.	Energy Density (Wh/I)	
12.	Specific Energy (Wh/Kg) Charged Condition	
13.	Internal resistance (mil-ohm) Max at fully (5 secs)	
14.	Maximum Discharge Current (Amps.)	
15.	Maximum Charge CURRENT (Amps.))	

16.	Container & Lid Material	
17.	Grid Alloy	
18.	Sealing Method	
19.	Safety Vent	
20.	Layout	
21.	Terminal & ICC	
22.	Cell Enclosure	
23.	Mounting	
24.	Operating Temperature Range	
25.	Recommended Operating Temperature	
26.	Recommended Storage Period	
27.	Self-discharge	
28.	Ah Efficiency	
29.	Wh Efficiency	
30.	<u>Recommended Charging :</u>	
	a) Float Mode Charging (i) Voltage: (ii) Current:	
	b) Boost Mode Charging (i) Voltage: (ii) Current:	
	c) Cyclic Mode Charging (i) Voltage: (ii) Current:	
31.	Temperature Compensation	
32.	Warranty	
33.	Cycle life of the battery @ 27 °C	
34.	Service life expectancy	
35.	Short Circuit Current	