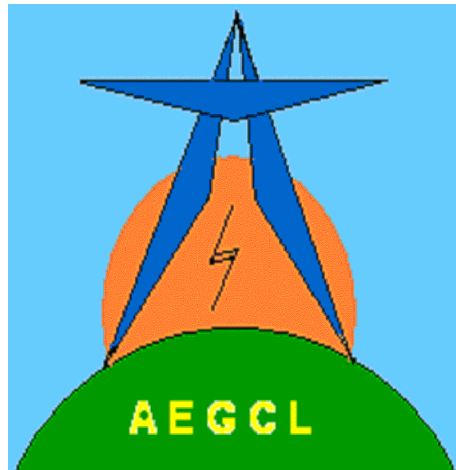


# ASSAM ELECTRICITY GRID CORPORATION LIMITED

Regd. Office: 1st Floor, Bijulee Bhawan, Paltan Bazar, Guwahati-781001

CIN:U40101AS2003SGC007238

Ph:-0361-2739520/Fax:-0361-2739513 Web: www.aegcl.co.in



## BIDDING DOCUMENT

BID ID No.AEGCL/CGM/SLDC/T-149/22-23/AC/BID

**Name of Work: -** Supply and Installation of AC for Scada Room, Control Room and Open Console Room at SLDC, AEGCL including associated works.

**NIT No.:** AEGCL/CGM/SLDC/T-149/22-23/8 Dtd.24.04.2023

For and on behalf of the Managing Director, Assam Electricity Grid Corporation Limited (AEGCL), the Chief General Manager (SLDC) invites e-tender from reputed Firms/Contractors for the work “**Supply and Installation of AC for Scada Room, Control Room and Open Console Room at SLDC, AEGCL including associated works**”. A single stage two envelope procedure (Techno-Commercial and Price Bid) will be adopted for this tender.

**(A) INFORMATION TO BIDDER: -**

1. **NAME OF WORK:** - Supply and Installation of AC for Scada Room, Control Room and Open Console Room at SLDC, AEGCL including associated works

2. **LOCATION OF WORK:** - SLDC, Kahilipara, Guwahati-19, Assam.

3. **CONTACT ADDRESS: -**

O/o the CGM (SLDC), AEGCL

Kahillipara, Guwahati-19,

Email id- [sldcassam@aeqcl.co.in](mailto:sldcassam@aeqcl.co.in) , [sldcaseb@gmail.com](mailto:sldcaseb@gmail.com)

4. **BIDDING PROCEDURE: -**

- a) The bidders must register themselves at <https://assamtenders.gov.in> as per the guidelines laid in the website.
- b) The bid must be submitted online through e-tendering portal <https://assamtenders.gov.in> Only.
- c) The bidders have to upload scanned copies of the relevant documents sought through the e-Tender Portal Only.
- d) Bidders may obtain further information from the office of the Chief General Manager (SLDC), AEGCL, Kahilipara, Guwahati - 781019, Assam [e-mail: [sldcassam@aeqcl.co.in](mailto:sldcassam@aeqcl.co.in) , [sldcaseb@gmail.com](mailto:sldcaseb@gmail.com) ; Web site: [www.aegcl.co.in](http://www.aegcl.co.in).
- e) To participate in the tender the interested bidders may visit <https://assamtenders.gov.in> for all the relevant documents and information required to participate in the tender.

5. **BASIC DETAILS:**

- a) Tender No.: AEGCL/CGM/SLDC/T-149/22-23/AC/BID
- b) Tender Details/ Name of work: Supply and Installation of AC for Scada Room, Control Room and Open Console Room at SLDC, AEGCL including associated works.
- c) Work Type: Civil/Electrical Work
- d) Tender Inviting Authority:
  - (i) Designation: Chief General Manager (SLDC)
  - (ii) Address: Kahilipara, Guwahati-19, Assam.

II. **CRITICAL DATES:**

Tender Start Date	27/04/2023	10:00 Hrs
Submission Start Date	08/05/2023	10:00 Hrs
Tender End Date	18/05/2023	14:00 Hrs
Tender Opening Date	19/05/2023	14:00 Hrs

6. **TENDER VALUE:**

The tender value **inclusive of all taxes** is **Rs.50,00,112.00** (Rupees Fifty Lakhs One Hundred and Twelve Rupees) only.

7. **TENDER PROCESSING FEE AND MODE OF PAYMENT: -**  
The Bidder shall bear all costs associated with the preparation and submission of its Bid, AEGCL shall not be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.  
Bidder has to pay Non-Refundable tender processing fee of **Rs.500.00 (Rupees Five Hundred)** only via e-tender portal [www.assamtenders.gov.in](http://www.assamtenders.gov.in).
8. **BID SECURITY/EARNEST MONEY AND MODE OF PAYMENT: -**
- a) For participation in bidding procedure, participants must compulsorily pay a Bid Security amounting to **Rs.1,00,000.00 (Rupees One Lakh Only)** in the form of Bank Guarantee. Scanned copy of the bid security must be uploaded along with the Technical Proposal. Bid security shall have to be valid for 30 days beyond the validity of Bid.
  - b) 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.
  - c) The bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder's furnishing of the performance security.
  - d) The bid security may be forfeited: -
    - i) if a Bidder withdraws its bid during the period of bid validity period.
    - ii) if the successful Bidder fails to sign the Contract within the specified period.
    - iii) if the successful Bidder fails to furnish a performance security within 15 (Fifteen) days of issue of Letter of Intent (LOI).
9. **PERFORMANCE GUARANTEE AND MODE OF PAYMENT: -**
- a) The materials and entire work are to be guaranteed against defective design, materials and workmanship and for satisfactory performance for a period of 18 (eighteen) Months from the date of final acceptance of the completed work by AEGCL.
  - b) The successful Bidder shall have to deposit through a **Bank Guarantee/Fixed deposit/RTGS/NEFT** 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 including GST as performance security within 15(fifteen) days from receiving of letter of intent(LOI) duly pledged in favour of the Purchaser concerned (AEGCL) and such security deposit shall be **valid up to 22(twenty two) months from the date of Issue of Letter of Intent(LOI)**. In case of Abnormally Low Bid the amount to be taken as performance guarantee will be as per bid document.
  - c) If the contractor/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) If the value of the work increases from original ordered value, the contractor has to provide performance guarantee for additional amount.
  - e) If any abnormally low bid is accepted under Clause no. (B) 5.B., after taking the additional performance security as per the assessment of the committee, however, the total performance security should not have to be exceeded 20% of the total contract value.
  - f) The additional performance security shall be treated as the part of the original performance security and shall be valid for a period coextensive with the applicable defect liability period of the contract.
  - g) Non submission of the additional performance security shall constitute sufficient ground to rejection of the bid and similar assessment shall be initiated for next ranked bidder if that bidder is identified as ALB.
  - h) No interest shall be payable on such deposits.

- 10. CLARIFICATIONS: -**
- a) A prospective Bidder requiring any clarification of the Bidding Document shall contact the AEGCL in writing their enquiries. AEGCL may respond to any request for clarification only if deemed necessary.
  - 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. The costs of visiting the site shall be at the Bidder's own expense.
  - c) The Bidder and any of its personnel or representatives will be granted permission by AEGCL to enter upon its premises and lands for the purpose of such visit, but only upon the express condition that the Bidder and its personnel will release and indemnify the Employer and its personnel 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.
- 11. VALIDITY OF BID: -**
- a) Bid shall remain valid for the period of **180 days** after the 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.
- 12. TIME OF COMPLETION: -**
- a) The allotted time of completion for the work is **110 days** from the date of issue of LOI (Letter of Intent).
- 13. DISCLAIMER: -**
- a) AEGCL is not committed contractually in any way to those Bidders whose Bid are accepted. The issue of this Bid does not commit or otherwise oblige AEGCL to proceed with any part or steps of the process.
- 14. AMENDMENT OF TENDER DOCUMENT: -**
- a) At any time prior to the deadline for submission of bids, the Employer may amend the Bidding Document by issuing addendum.
  - b) 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.
- 15. LANGUAGE OF BID: -**
- a) 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 and/or Assamese language.
- 16. NEGOTIATION WITH BIDDER: -**
- The AEGCL reserve the right to hold negotiations with lowest bidder if AEGCL feels the quoted rates of particular item(s) are unreasonably high. The bid must be valid, eligible and technically acceptable and considered for award of contract.
- 17. VERIFICATION OF DOCUMENTS: -**
- a) AEGCL reserves the right to verify the documents submitted by the bidders with issuing authority and if any abnormalities are observed in the same, their bids will be rejected.

18.

**RIGHT TO REJECT: -**

- a) The AEGCL reserves the right to reject any or all the bids. The clauses which are not appearing in this Bid document 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](http://www.aegcl.co.in)

(B)

**ELIGIBILITY/QUALIFICATION:**

- i. The Techno-Commercial Evaluation will be done on the basis of technical qualification, Financial qualifications and fulfilment of the legal conditions.  
ii. The Price Bid of only Responsive Techno-Commercial Bidders will be opened and communication will be issued in due course.

1.

**ELIGIBLE BIDDERS: -**

- a) A Bidder may be a person, partnership, private entity or a government-owned entity. JV will not be considered. The bidder must be an authorised dealer of the specified manufacturer.  
b) A Bidder, and all partners constituting the Bidder, shall have Indian nationality.  
c) Participation by a Bidder in more than one Bid will result in the disqualification of all Bids in which it is involved.  
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.  
e) Bidders shall provide such evidence of their continued eligibility satisfactory to the AEGCL, as the Employer shall reasonably request.  
f) The bidder must have experience of execution of work of similar nature previously. The bidder must submit experience and Performance Certificate for scrutiny by AEGCL.  
g) **A person, Firm or any other prospective bidder who is involved in fraud, unethical practices or barred from submitting bids by AEGCL or any sister concerns of AEGCL i.e. APDCL & APGCL will not be allowed to participate in the bids. If such cases are detected after submission of the bids, in later stages of the bidding process, then such bids will be rejected outright.**

2.

**LEGAL ENTITY:-**

- a) Verification may be undertaken to verify that an applicant is a bona-fide registered company or business. Bidders are required to provide evidence of the legal entity by providing a copy of an official document as mentioned in the appendix attached along with this bid document.

3.

**TECHNICAL QUALIFICATION: -**

- a) Experience of having completed similar works during the last 05 (Five) Financial years should be either of the following:  
i. **Three similar completed works**, each costing not less than the amount equal to **Rs. 17,00,000.00** (Rupees Seventeen Lakhs) only.  
OR  
ii. **Two similar completed works** each costing not less than the amount equal to **Rs. 25,00,000.00** (Rupees Twenty Five Lakhs) only.  
OR  
iii. **One similar completed work** costing not less than the amount equal to **Rs.50,00,000.00** (Rupees Fifty Lakhs) only.

**Note:** "Similar work" is defined as Supply and Installation of commercial grade AC along with all services in all respect for Govt. Departments/PSUs/Banks/Reputed Industries Only.

- iv. If the nature of work and value differs from the above stated conditions, it will not be considered while evaluation of technical qualification.
- b) Bidders must compulsorily submit work order and work completion certificate issued from Govt Department/PSUs/Banks/Reputed industries only satisfying the above-mentioned work experience criteria for technical qualification. Moreover, AEGCL reserves the right to scrutinise any work order/work completion certificate submitted by the bidders with issuing authority. If any abnormalities are observed in the same, their bids will be rejected.

**4. FINANCIAL QUALIFICATION: -**

- a) Minimum average annual turnover of **Rs.37,50,000.00** (Rupees Thirty Seven Lakhs Fifty Thousand) only calculated as total certified payments received for contracts in progress or completed, within the last 3 (Three) years.
- b) The Contractor must furnish their Bank Solvency Certificate indicating the amount by concerned authority in necessary format as per their banks.
- c) CA/CMA certified Financial Statements/Balance Sheets for the last 3 (three) FY are to be submitted for calculation of turnover.

**5. PRICE BID EVALUATION PROCESS:**

**Identification:**

- A. The following methodology will be practised for identification and treatment of the Abnormally Low Bids (ALB) in this tender process of AEGCL:
  - (i) **Absolute Approach** is to be considered when there is fewer than five substantially responsive bidders and if the bid price is 20% or more below AEGCL's cost estimate then AEGCL's tender evaluation committee should clarify the Bid price with the bidder to determine whether the Bid is abnormally low.
  - (ii) **Relative approach** is to be considered when there are at least 5(five) nos. of substantially responsive bids and the lowest bid price is 20% or more below AEGCL's cost estimate. In this approach, first the Average bid price is determined and then by deducting the standard deviation from the Average bid price, potentially ALB may be determined.
- B. 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:
  - (i) To identify ALB as per the steps mentioned in Sl no. 5.A.(i) and 5.A.(ii) whichever is applicable.
  - (ii) To seek and analyse the clarifications from the abnormally low Bidder in terms of resource inputs and pricing, including overheads, contingencies and profit margins. In that respect, the committee may refer to guideline of World Bank, AIIB, ADB etc. prescribed for ALB.
  - (iii) To decide whether to accept or reject the bid.
  - (iv) On acceptance of the bid, whether Additional Performance Security is to imposed on the bidder supplemented by adequate justification.
- C. **In case of acceptance of ALB with Additional Performance Security:**
  - (i) If any abnormally low bid is accepted under point 5.B.(iii) 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.

(C) **GENERAL CONDITIONS OF CONTRACT:**

1. **INSPECTION OF SITE:-**

- a) The Bidder is advised to visit and examine the site where the work is to be carried out and its surroundings, nature of work, site conditions, area for storage of materials, etc. and obtain for itself on its own responsibility all information that may be necessary preparing the bid and entering into a contract. The costs of visiting the site shall be at the Bidder's own expense. Non-familiarity with the site conditions will not be considered a reason either for extra claims or for not carrying out the work in strict conformity with the specifications & requirements.

For site visit and any clarification/information/assistance, the intending Bidder may contact the Office of the CGM (SLDC), AEGCL, Kahilipara, Guwahati, Assam-781019.

2. **PREPARATION OF BID:-**

- 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) Documents Establishing Conformity of the Goods and Services: - The documentary evidence of the conformity of the goods and services to the Bidding Document may be in the form of letter, drawings and data, and shall furnish. A detailed description of the essential technical and performance characteristics of the goods and services, including the functional guarantees of the Goods, in response to the specification.
- c) Bidder should note clearly that department should not take any responsibility for issuing of any materials, equipment's and T&P's that may be required in the work.
- d) All materials, labours, equipment's, T&P and heavy vehicle etc. required in the work shall have to be arranged by the bidder/contractor from his own sources in the event of allotment of the said work to him/them.
- e) Water to be used in the work should be clean and free from all impurities; the bidder should note that no water will be provided to them for the execution of the work from the department
- f) The department is also not bound to supply power that may be required in the execution of the work. However, subject to the availability of the power source near the vicinity of the work site, the department on payment of tariff as applicable at the time of execution of work may arrange one point near the work site.
- g) The bidder should clearly understand that all materials to be utilized in the work must confirm to the specifications. No substandard materials will be allowed to utilize in the work. Samples of each and every material to be brought to the site of work shall have to be get approved by the competent authority of the department before use.
- h) The contract must not be sublet under any circumstances. If any contractor found in doing so, his work liable to be terminated.
- i) The specification for the work shall be as per specification laid down in the items of work contained in the enclosed schedule of items of work or as per the APWD schedule of rates for Building (civil works), Sanitary and Water supply and internal electrification respectively (whichever is applicable) but, certain modification in the specification and method of execution of work if required shall have to be carried out which shall be finalized with the contractor bilaterally through discussion

3. **PRICE BID:-**

- a) 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, delivery, testing of materials,

construction, installation and completion of the Work. The rate should also include the cost of testing of materials at the approved laboratory, carriage and transportation of sample, preparation of report, submission of report in all respect as required by AEGCL. 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.

- b) Bidders are required to quote the price for the commercial, contractual and technical obligations outlined in the bidding document.
- c) **Bidders quoted price should include all cost of testing of materials, transportation of sample, storage, preparation and submission of report during approval period, construction period as well as after completion of the work.**
- d) 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, otherwise will be deducted at source at applicable rate.
- e) Taxes like work contract, income tax etc. which need to be deducted at source as per the prevailing law, will be deducted at source.
- f) 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.

#### 4. **SITE FACILITIES: -**

- a) AEGCL will not provide any accommodation at the work site to the contractor and their field personnel. No claim shall be entertained from the bidder for making his own arrangement for providing accommodation to the labours and bidder will bear entire expense. The same has to be arranged by the contractor on their own. However, AEGCL may provide space for storage of the materials but responsibility of the material and their safety shall be taken care of by the Contractor. In case of non-availability of space under AEGCL the same should be arranged by the contractor outside AEGCL campus/work site at their own cost and responsibility.
- b) AEGCL shall not be responsible for the safety of the workers at site either on account of the works executed by the Contractor or on account of the works executed by any other agency involved at that time.
- c) AEGCL shall on no account be responsible for the expenses incurred by the Contractor during the progress of work at site, towards any incidental expenditure like medical amenities to the workers at site, security arrangements.
- d) The quoted price shall be deemed to include charges for all site facilities for labour that are considered necessary for execution of the work.
- e) No claim shall be entertained from the bidder for making his own arrangement for approach roads from outside PWD road to the site and bidder will bear entire expenses.
- f) AEGCL on no account shall be responsible for storage of materials or loss or pilferage or theft either in respect of the material stored or material already billed and paid for by the AEGCL.
- g) Any facilities available at site shall be utilized only with prior permission of AEGCL and it should not be taken as granted for availing such services.

#### 5. **DEFECT AFTER COMPLETION OF WORK:-**

- a) The contractor shall make good at his own cost and to the satisfaction of AEGCL all defects, or other faults which may appear during the defect liability period.



In default, AEGCL may employ and pay other agency or persons to amend and make good such damages. Losses and expenses consequent thereon or incidental thereto shall be made good and borne by the contractor, failing which the same shall be recoverable from the payment due to the contractor and performance guarantee. In the event of amount due and performance guarantee being insufficient, the balance amount will be recovered from the contractor from the amount due or retained for other works executed in AEGCL.

**6. VARIATION AND DEVIATION OF QUANTITY :-**

- a) AEGCL shall have the right to increase the ordered quantity by 20% within 50 days of the period of completion and the same shall be carried out at the same rates /prices and terms and conditions stipulated in the order.
- b) **Deletion of work:**  
AEGCL shall have the right to delete or decrease any item or quantity from schedule of quantity at its discretion if deemed necessary. No claim by the contractor will be admissible for this deletion or deduction of Item/quantity from schedule of quantity.

**7. LABOUR LEGISLATION: -**

- a) 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.

**8. GOVERNMENT AND LOCAL RULES:-**

- a) The Contractor shall conform to the provisions of all local bye-laws and acts relating to the work and to the regulations etc. of the Government and Local Authorities and of any Company whose system and design is proposed to be connected/utilized. The cost, if any, shall be deemed to have been included in his quoted rates, taking into account all liabilities and shall indemnify AEGCL against such liabilities and shall defend all actions arising from.

**9. ELIGIBILITY OF CONTRACTORS EMPLOYEES: -**

- a) The Contractor shall employ in and about the Execution of the works only such persons as are skilled and experienced in their several trades. A list of such personal should be submitted in corresponding Appendix.

**10. ENGINEER AT LIBERTY TO OBJECT:-**

- a) AEGCL's Site in-charge shall have right to remove any person provided by the Contractor who, in the opinion of the Site in-charge, misconducts himself, or is incompetent or negligent

in the proper performance of his duties, or whose presence on Site is otherwise considered by the Engineer to be undesirable, and such person shall not be again allowed upon the Works without consent of the Engineer. Any person so removed from the Works shall be replaced immediately without hampering the work.

11. **TAXES: -**
- a) Any taxes, royalties and duties as per Govt. Law should be responsible of the contractor and must be included in their quoted rate.

12. **INSURANCE: -**
- a) 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 the land.

13. **DAMAGE TO PERSON AND PROPERTY: -**
- a) 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.

14. **ACCEPTANCE OF BID AND CONTRACT AGREEMENT:-**
- a) An agreement shall have to be drawn on non-judicial stamp of appropriate value with AEGCL by the selected Contractor within **15 (fifteen) days** from the date of issue of the LOI.

Wherever there is any variation in between the conditions of AEGCL's General Conditions of Supply and Erection 2009 and the above terms & conditions, this bid conditions will supersede the conditions of AEGCL's General Conditions of Supply and Erection 2009.

15. **STATUTORY AND SAFETY REQUIREMENT:-**
- a) Each and every safety measure for MAN and MACHINE will be the sole responsibility of the Contractor without any prejudice. Compensation claims if any will also be the responsibility of the contractor without any prejudice.
  - b) During the execution of the work, the contractor shall have to mark the site with banner warning/indicating precautions.
  - c) The Contractor shall, throughout the execution and completion of the Works and the remedying of any defects therein:

- d) Have full regard for the safety of all persons entitled to be upon the Site and keep the Site (So far as the same is under his control) and the Works in an orderly state appropriate to the avoidance of danger to such persons, and
- e) Provided and maintain at his own cost all lights, guards, fencing, warning signs and watching, when and where necessary or required by the Engineer or by any duly constituted authority for the protection of the Works or for the safety and convenience of the public or others, and Take all reasonable steps to protect the environment on and off the Site and to avoid damage or nuisance to persons or to property of the public or others resulting from pollution, noise or other causes arising as a consequence of his methods.

**16. PAYMENT TERMS: -**

- a) No advance/Mobilization advance shall be made in this contract.
- b) No claim for interest shall be entertained by AEGCL in respect of any money or balance which may be in AEGCL's hands owing to any dispute or difference or misunderstanding between the contractor and the AEGCL or due to the reason beyond the reasonable control of AEGCL.
- c) One running bill shall be paid to the contractor on 50% completion of the work.
- d) Final bill must contain the original site register.
- e) First & Final payment shall be released to the contractor only after completion of the work/final acceptance by AEGCL.
- f) Payment is subject to availability of specific fund.
- g) 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
  - Banker's RTGS Code

**17. ADDITIONAL WORKS:-**

The Contractor shall, when ordered in writing by the concerned authority, perform extra work and furnish extra materials not required by the invitation or included in the "Bill of Quantities", but forming an inseparable part of the work concerned. For extra work and, materials will ordinarily be paid for the lump sum or unit price/rates stated in the order. Whenever in the judgement of the concerned authority, it is impractical, because of the nature of the work or for any other reason to otherwise fixed the price/rate in order, the extra work and materials shall be paid for on the basis or actual necessary cost plus overhead and profit allowances as indicated hereunder.

The actual necessary cost will include:

- a) Market value of the materials utilized in the extra work, including taxes and duties, if any.
- b) Actual cost of handling and transportation of materials wherever applicable.
- c) Direct labour charges.
- f) Further supervision charges and profit will be allowed at 10% on the sum. In case any material or parts are furnished by the department no overhead and profit will be allowed on the value of such materials or parts.

**18. RETENTION MONEY:-**

- a) 10% retention money will be deducted from running bill, which will be released along with the final bill on completion of the work in all respect.

19. **WARRANTY:-**
- a) Compressor should have **5 Year Warranty** along with **24 months Machine Warranty**. Bidder must provide 24 months comprehensive on-site warranty against the defect of any manufacturing, workmanship and poor quality of the components and it will start from the date of Taking Over of the Work by AEGCL. A Taking over Certificate (TOC) will be issued by the appropriate authority. against the defect of any manufacturing, workmanship and poor quality of the components. No offer of the bidder will be accepted without warranty/guarantee of the supplied/ installed goods.
  - b) The Contractor must handover the warranty card or other relevant documents from the OEM at the time of submission of the bill.
20. **SUSPENSION OF WORK:-**
- a) If the contractor persistently neglects to carry out his obligations under the contract and/or commits default in complying with any of the terms and conditions of the contract and does not remedy it or take effective steps to remedy it within 7 days after a notice in writing is given to him in that behalf by AEGCL subject to other provisions contained, AEGCL may without prejudice to his any other rights or remedy against the Contractor in respect of any delay in commencing, completing the work may serve notice in writing absolutely determine and cancel the Contract.
21. **EXTENSION OF TIME:-**
- a) Time is the essence of the contract. No extension of time shall be allowed except on valid reason after pre-approval from competent authority.
22. **CHANGE OF NAME OF THE TENDERER:-**
- a) At any stage after tendering, AEGCL shall deal with the Contractor only in the name and the address under which he submitted the tender. All the liabilities/ responsibilities for due execution of the contract shall be that of the Contractor.
  - b) Any change/ alteration of name/ constitution/ organization of contractor shall be duly notified to the AEGCL and the AEGCL reserves the right to determine the contract, in case of any such notification.
23. **DEATH, BANKRUPTCY ETC.:-**
- If the Contractor becomes bankrupt or being a corporation is in the process of winding up, amalgamation or reorganization, the AEGCL shall be at liberty to:
- i. Terminate the contract forthwith by notice in writing to the Contractor or to the liquidator or receiver or to any person in whom the contract may become vested.
  - ii. Give such liquidator, receiver or other person the option of carrying out the contract subject to his providing a guarantee for the due and faithful performance of the contract up to an amount to be determined by the AEGCL.
- In case of death of the Contractor before completion of work and supply, the Engineer or AEGCL shall be at liberty to:
- a) Close up the contract and take over the completed portion of work done and made as per specification and make final payment to the legal heir of the Contractor on receipt of claim from such legal heir.
  - b) Give the contract to the legal heir of the Contractor subject to his depositing a performance security for the due and faithful performance of the contract. The performance security amount shall be determined by the AEGCL commensurate with the incomplete portion of the work. The AEGCL will enter into a fresh contract with the legal heir of the Contractor on the same terms and conditions of the earlier contract.

- 24. CONTRACTUAL FAILURE, LIQUIDATED DAMAGE AND PENALTY:-**
- a) Liquidity Damages 0.5% (half percent) of the amount of delayed work per week subjected to the maximum 10 % of the contract value.
- 25. TERMINATION OF CONTRACT: -**
- a) If the performance of the contract is not satisfactory and not corrected within 15 days of receiving notice, then employer shall be at liberty to terminate the contract and get the work executed through other means at the risk and cost of the Contractor.
- 26. PAYMENT ON TERMINATION: -**
- a) In the event of termination of the contract, AEGCL shall be at liberty to get balance work done by any third party at the risk and cost of the contractor and due payment of the contractor, if any shall be released after the completion of whole of the works.
- 27. SUSPENSION OF BUSINESS DEALINGS WITH FIRMS/ CONTRACTORS: -**
- a) The AEGCL may suspend business dealings with a Firm/ Contractor, if :-
- i. The Central Bureau of Investigation or any other investing agency recommends such a course in respect of a case under investigation; and if a prima facie case is made out that the firm is guilty of an offence involving unethical, unlawful, fraudulent means in relation to business dealings, which, if established, would result in business dealings with it being banned.
  - ii. The AEGCL has past record of non-performance of the Firm in its previously awarded contracts.
  - iii. The AEGCL has record of ban against the Firm by other Government /Public sector utility.
- b) However, the AEGCL shall give the Firm/ Contractor a fair chance to explain the circumstances of such previous suspensions.
- 28. BANNING OF BUSINESS DEALINGS WITH FIRMS/ CONTRACTORS:-**
- The AEGCL may ban business dealings with a Firm/ Contractor, if:-
- a) The owner (s) of the Firm/ Contractor is convicted by a court of law following prosecution for offences involving unethical, unlawful, fraudulent means in relation to business dealings.
  - b) There is strong justification that the Firm has been guilty of malpractices such as, bribery, corruption, fraud, substitution of tenders, interpolation, mis-representation, evasion or habitual default in payment of any Government tax etc.
  - c) The Firm continuously refuses to return government dues without showing adequate cause and government are reasonably satisfied that this is not due to reasonable dispute which would attract proceeding in arbitration or court of law.
  - d) The Firm is found guilty of involving in unethical practices, such as:-
    - i. "corrupt practice" involving offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence the action of any such official/ party in procurement process or in contract execution.
    - ii. "fraudulent practice" involving misrepresentation or omission of facts in order to influence a procurement process or the execution of a contract to the detriment of the Employer.
    - iii. "collusive practice" involving a scheme among bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Employer of the benefits of free and open competition.
    - iv. "coercive practice" involving harming or threatening to harm directly or indirectly, persons or their property to influence procurement process or the execution of a contract.
- The AEGCL may sanction a Firm/ Contractor or its successor, including declaring ineligible, indefinitely or for a period of not less than 3 (three) years.

**29. FORCE MAJEURE CONDITION**

- a) 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. SETTLEMENT OF DISPUTE AND ARBITRATION:-**

- a) 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 respective District of work.

**31. POLLUTION AND ENVIRONMENT: -**

- a) 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.

**32. ACCEPTANCE AND TAKEOVER:-**

- a) When the term of contract shall be fully complied with completing all works as per approved drawing and technical specifications to the satisfaction of the Department for a period as applicable, the Contractor/Firm shall have to submit Performance Certificate to the office of the undersigned after the satisfactory completion of the work through the executing authority for finalization of the work/payment as well as for the final acceptance and taking over the completed work and to issue the necessary certificate thereof.

**(D) WORK SCHEDULE:**

**1. WORKING PROCEDURE:**

- a) **All materials must be installed only after verification and approval by AEGCL.**
- b) All the materials brought to the site must be verified by AEGCL before installation. Any materials installed without approval shall be rejected and dismantled.
- c) All the work must be carried out as per the directions of AEGCL and no deviation from the directions shall be allowed under any circumstances. In case of inevitable discourse, the contractor must get the deviation approved from the AEGCL.
- d) If any kind of unapproved deviations are observed during the course of the work, the contractor shall have to redo the work as per the direction of AEGCL at the cost of the Contractor.
- e) It shall be the contractor's responsibility to clear any unusable debris/left out materials from the SLDC Building. No unwanted material can be left unattended by the contractor and the same must be cleared before handing over the site to AEGCL.
- f) The reusable or valuable dismantled materials during the work have to be shifted to a place as decided and directed by the AEGCL within SLDC campus.
- g) After supply, erection, testing and commissioning of the air-conditioning units, the bidder shall submit the following documents in triplicate:
- As-built drawing of the air-conditioning system.
  - Instruction manual for operation and maintenance of the air-conditioning system.
  - Guarantee certificate as per relevant Clause
  - Service Centre Address & Contact No. in Printed leaflet.

(E) **GENERAL SPECIFICATION OF WORK:**

The work is to be executed as per specifications of the BOQ as provided by AEGCL. Any unauthorised deviation is strictly prohibited and any deviation is to be corrected by the contractor at his own risk and cost.

1. **The scope of works briefly covers the following:**

- a) Supply & installation of both indoor and outdoor units of Industrial grade Air Conditioners (Ductable/Cassette) as specified in the BoQ complete with all fittings and fixtures.
- b) Supply & Installation of all ducts, pipings, cables etc connecting the indoor and outdoor units including drainage pipes complete with all fittings and fixtures as specified in the BoQ.
- c) Installation of false ceiling as specified in the BoQ including supply of all materials, clamps, fittings and fixtures etc. Including supply and fixing of ceiling lights and associated wiring.
- d) Dismantling of existing AC units (both indoor and outdoor units) along with the ducts, piping, cabling etc and storage in an orderly manner at a location specified by SLDC officials within the SLDC campus.
- e) Dismantling of the existing false ceiling and clearing of the debris/materials from SLDC campus.
- f) Comprehensive Annual Maintenance for 5 (five) year beyond warranty period for the complete Job

2. **SITE PREPARATION: -**

- a) All works required for site preparation will have to be carried out by the contractor at his own expense, whenever directed by the Site In-charge.
- b) The Contractor shall clear the site of unnecessary vegetation to prepare the site for work only as per directions given by the Site In-charge.
- c) Any unnecessary structures are to be demolished and serviceable materials to be stacked and stored as directed by AEGCL.
- d) Any waste or unwanted material has to be disposed by the contractor if ordered by AEGCL. No materials will be allowed to leave the site without the permission of the Site In-charge.
- e) The Contractor will have to construct access or any means for transport as instructed by the Site in-charge if the site is not easily accessible.
- f) All water which may accumulate on the site before or during the progress of the works or in trenches and excavations shall be removed and drained out from the site to the satisfaction of the Site In-charge by the Contractor.
- g) Any other work required for adequate preparation of the site shall be carried out by the Contractor.

3. **DESCRIPTION OF AIR CONDITIONING SYSTEM**

The system shall consist of split/package Air Conditioning units 3 no. of 11 Ton and 9 nos. of 4 Ton capacity Cassette unit (BEE- 3 star & above) for air conditioning of the specified premises. The return air shall be collected through return air slits in the false ceiling and taken back to plenum formed above false ceiling. Fresh air in each control room shall be supplied through a tube axial supply air fan, duct and grills. Condensing and evaporating units shall be located at the roof of the SLDC building. The conditioned

air from the evaporating units shall be transported through the diffusers in the control room 1 & 2 and Hardware room areas. The system shall be complete with all requisite controls, drain pipes, refrigerating pipes. The system shall be capable of maintaining desired room temperature adjustable by thermostatic switch to be provided

**4. Mechanical Works**

Air conditioning units shall be complete with all accessories, auxiliaries, including first charge of refrigerant and lubricating oil etc. Ducting as required, shall have to be complete with duct hangers, supports and accessories etc. Diffusers shall be complete with volume control damper and frame work. Drain water piping, fittings etc. shall also have to be provided as per requirement.

**5. Electrical & Control & Instrumentation Works**

Power supply shall have to be fed through 415 V. 3 phase, 4 wire distribution boards. Necessary control, units shall have to be complete with equipment/devices required. Digital display units shall have to be provided to indicate the room temperature and relative humidity.

**6. Evaporator Unit**

Evaporator unit shall be horizontally/vertically mounted type as required and constructed of galvanized steel sheet of thickness not less than 18 gauges. It shall be suitable for indoor/outdoor installation and shall have provision for draining out condensate water.

**7. Fan Section**

The fan shall be centrifugal, statically and dynamically balanced and shall be made of heavy gauge Aluminium. It shall be designed for low noise operation and capable of delivering required air against static hand of ducting.

**8. Cooling Coil Section**

The cooling coil section shall consist of copper tubes with aluminium fins to provide efficient heat transfer between tubes and fins. Cooling coil section shall be suitably insulated. It shall be fed with liquid refrigerant through thermostatic expansion valve. The cooling coil shall be of direct expansion type with copper tubes and aluminium fins. This shall be minimum three (3) rows deep and with minimum three (3) fins per centimetre. Anticorrosive coating shall be provided on coil

**9. Filter Section**

Synthetic washable air filter shall be provided for the blower section. Coil filters shall not be acceptable. The filters shall include (either one or more of) anti-dust, deodorization, anti- bacterial and/or ultraviolet types, as Specified.

**10. Drain Pan Section**

Galvanized steel drain pan having arrangement for faster disposal of condensed moisture from cooling coil section shall be provided. It shall be suitably insulated.



**11. Condensing Units**

Condensing units shall be supplied in weather proof heavy gauge enclosure suitable for outdoor installation. Each unit shall comprise of hermetically/semi-hermetically sealed compressor units together with associated air cooled condensers, refrigerant tubing and electrical system. The condenser tubes shall be of copper having extended aluminium fins. The condenser heat is removed with the help of a quiet, low speed propeller fan(s).

**12. Duct Work, Diffusers and Accessories**

The metal air duct, if required, shall be made of galvanized steel. Rectangular ducts shall be provided. Main supply air duct velocity shall not exceed 7 m/s. All duct runs shall generally be designed to have minimum frictional resistance, noise and vibration. The ducts shall be perfectly air tight. Ducts shall be designed, fabricated and installed as per IS: 655. The ducts shall be supported by mild steel rods and mild steel angles. Mild steel rods shall be hung from building slab. All supporting material required shall be provided by bidder. Adjustable split dampers shall be placed at suitable points for proportional volume control of the system.

The supply air ducting up to a distance of 3 meters beyond the fan discharge shall be acoustically lined from inside. The duct shall be insulated and Diffusers shall be made of heavy gauge extruded aluminium metal. These shall be provided with volume control damper, frame work and gasketing at each duct flange. The bidder shall furnish the layout plan of ducting and diffusers.

**13. Drain Piping**

Necessary Galvanized Iron drain piping shall be provided and connected to the nearest drain

**14. Fresh Air Fan Unit**

Fresh air fan unit shall be complete with the following:

- a. Tube axial fan/centrifugal fan complete with drive motor.
- b. Guard Screen wall cowl & bird screen.
- c. Cleanable metallic viscous filter.
- d. High efficiency dry fabric filter.
- e. Dampers to adjust the fresh air quantity.

**15. Electrical Work**

The Air Conditioning units shall be complete with electrical starters, motor, wiring and protection. The electrical system shall be capable of operating on 415 V, 3 phase, 4 wire, 50 HZ system. Supply, laying and termination of outgoing cables emanating from the distribution board to each Air conditioning unit shall be carried out by the contractor. Further electrical wiring shall also be in the scope of Contractor. Each compressor unit shall be provided with short circuit over load and under voltage protection.

**16. REFRIGERATION PIPING AND CONTROLS**

The refrigeration piping shall be complete with externally equalized thermostatic expansion valve, liquid line strainer, dehydrator with replaceable drying agent and liquid line shut-off valve. Refrigerant piping, fittings and piping joints shall conform to the requirements ANSI B 31.5. The piping shall be designed for an internal pressure representing the most severe condition of coincident pressure and temperature expected in normal operation. Vacuum testing shall be done for medium vacuum of around 40 mm Hg absolute and held with vacuum pump in operation for at least 4 hours. Thereafter unit shall be sealed and vacuum held for at least 12 hours. Vacuum break shall be done using refrigerant and pressure raised to standing pressure in refrigerant cylinder.

ON-OFF thermostat with adjustable setting shall be provided for temperature control. A selector switch enabling the running of air handling fan alone or fan with cooling shall be provided. Interlock shall be provided such that compressor can start only after starting air handling fan. Provision shall also be made to interlock the compressor with air cooled condenser fan motor. Safety devices such as high/low refrigerant pressure stat (HP/LP) and compressor oil pressure stat (OP), hermetic motor winding thermostat etc. shall be provided. HP and OP cut out shall be manual reset while LP cut out shall be auto reset type.

Refrigerant and oil shall be supplied along with the unit. The refrigerant and oil charging shall be carried out at site. Exposed refrigerant piping shall have anti- corrosive coating.

## Appendix-1

### COVERING LETTER (ON THE APPLICANT'S LETTER HEAD)

To,

The Chief General Manager (SLDC),  
Assam Electricity Grid Corporation Limited  
Kahilipara, Guwahati-781019, Assam.

Sub: ***Supply and Installation of AC for Scada Room, Control Room and Open Console Room at SLDC, AEGCL including associated works.***

Ref: i) IFB No.AEGCL/CGM/SLDC/T-14/22-23/7. Dtd.24.04.2023  
ii) NIT No. AEGCL/CGM/SLDC/T-14/22-23/8. Dtd.24.04.2023

Sir,

Having examined the NIT, IFB, terms & conditions, technical specifications, detailed items of work etc. as well as acquainting myself/ourselves with site of work, surroundings to get the required materials etc. I am/we are to submit herewith my/our tender for the above-mentioned work. My/our rates are quoted as per the specification laid down in the schedule of items of work, considering cost of design & preparation of structural drawing, materials, labours, haulage, taxes, royalty etc.

I /We clearly understand that all materials, tools and plants, machineries, labours, haulage etc. required in the work shall have to be arranged by me/us from my/our own resources in the events of allotment of the work to me/us.

I /We also clearly understand that in the event of acceptance/approved of my/our tender, the work shall have to be executed strictly as per specifications and the same shall have to be completed in all respects within the stipulated time failing which I am/We are liable to be penalized as per rules laid down in Tender document as well as agreement thereof.

[ Authorized Signature ]

[ Name and Title of Signatory ]

**Appendix-2**  
**PROFILE OF THE BIDDER**

Sl. No.	Particulars	To be filled by Bidder
a)	Name of the Bidder	:-
b)	Registration/Memorandum of Association	:-
c)	Financial statements/Balance for last 3(three) years (CA/CMA certified)	
d)	PAN	:-
e)	GST Registration number	:-
f)	Bank Solvency Certificate indicating the amount	:-
g)	Date of Establishment/Incorporation	:-
h)	Postal Address	:-
	House No.	:-
	Lane	:-
	Street	:-
	Town/Village	:-
	Post Office	:-
	P.S.	:-
	District	:-
	Pin code	:-
i)	Telephone Number	:-
	Mobile No.	:-
	E-Mail Address	:-
	Website	:-
j)	Name(s) of the Owners / Directors/Partners	:-
k)	Name of the Banker with Address and Telephone Number	:-
l)	Contact Person Details <i>(Furnish here name of that person with whom AEGCL may get in touch for more information or clarifications)</i>	Name:- Designation:- Mobile Number:- Email Address:-

Note: Bidder may attach additional sheets, if required.

[ Authorized Signature ]

[ Name and Title of Signatory ]

### Appendix-3

#### WORK EXPERIENCE OF THE BIDDER

- a) Experience of having completed similar works during the last 05 (Five) Financial years should be either of the following:
- i. **Three similar completed works**, each costing not less than the amount equal to **Rs. 17,00,000.00** (Rupees Seventeen Lakhs) only.  
OR
  - ii. **Two similar completed works** each costing not less than the amount equal to **Rs. 25,00,000.00** (Rupees Twenty Five Lakhs) only.  
OR
  - iii. **One similar completed work** costing not less than the amount equal to **Rs.50,00,000.00** (Rupees Fifty Lakhs) only.

**Note:** “**Similar work**” is defined as Supply and Installation of commercial grade AC along with all services in all respect for Govt. Departments/PSUs/Banks/Reputed Industries Only.

Name of work	Executed Amount	Starting Date	Completion Date

- b) Bidders must compulsorily submit work order and work competition certificate issued from Govt. Departments/PSUs/Banks/Reputed Industries satisfying the above-mentioned work experience criteria for technical qualification.

Moreover, AEGCL reserves the right to scrutinise any work order/work competition certificate submitted by the bidders with issuing authority and if any abnormalities are observed in the same, their bids will be rejected.

Note:

5. Bidder has to attach additional sheets, if required.
6. Bidder have to furnish necessary work order copies for technical evaluation of experience.

## Appendix-4

### **FINANCIAL QUALIFICATIONS**

#### **Financial Qualifications:**

- (i) Minimum average annual turnover of **Rs.37,50,000.00** (Rupees Thirty Seven Lakhs Fifty Thousand) only calculated as total certified payments received for contracts in progress or completed, within the last 3 (Three) years.
- (ii) The Contractor must furnish their Bank Solvency Certificate indicating the amount by concerned authority in necessary format as per their banks.
- (iii) CA/CMA certified Financial Statements/Balance Sheets for the last 3 (three) FY are to be submitted for calculation of turnover.

## Appendix-5

### GUARANTEED TECHNICAL PARTICULARS OF AIR CONDITIONER WITH ELECTRICAL ACCESSORIES

(To be filled in and signed by the Bidder)

<b>1</b>	<b>GENERAL</b>	
1.1	Manufacturer's Name & Address	
1.2	Type and Model as per Manufacturer	
1.3	Standards to which conform	
1.4	Nominal Capacity :	
1.5	Cooling capacity :	
1.6	Material & size of refrigerant pipe	
1.7	Coefficient of performance	
1.8	Moisture removal rate	
1.9	Air flow rate	
1.10	Noise level Indoor unit	
1.11	Noise level Outdoor unit	
1.12	Compressor type	
1.13	Body surface finish : powder coated/high quality paint finish (Yes/ No/ Others – to be specified)	
1.14	Air filtering unit :	
<b>2</b>	<b>ELECTRICAL PARAMETERS</b>	
2.01	Power required for each unit (WATT)	
2.02	AC Supply Voltage range in (Volts) & frequency	
2.03	Other specific particulars relating to the system	
2.05	Cables and Wires:– (as per reqd length) Manufacturer/ Brand a. fire retardant (Yes/No) b. Material (Copper) c. size (min 4 mm <sup>2</sup> ) d. capacity (Amp) e. Insulation	
2.06	Push Button Starters a. Manufacturer/ Brand b. Standards c. Capacity (Amps)	

## Appendix-6

### LIST OF DOCUMENTS TO BE SUBMITTED

(Each document is to be sealed and signed by the Bidder)

#### THE FOLLOWING DOCUMENTS ARE TO BE MANDATORILY SUBMITTED:

- 1) **Documents relating to the firm:**
  - a) Registration certificate, Partnership Deed/MOA, Incorporation Certificate.
  - b) GST certificates.
  - c) PAN card.
- 2) **Authorised Dealer certificate.**
- 3) **Detailed data sheet** of the model proposed and related drawings.
- 4) Documents listed in **Appendix 1 to 5.**
- 5) **Notarised Power of attorney/ Written Confirmation of Authorization to commit the bidder.**
- 6) **BID Security.**

\*\*\* Documents mentioned in Appendix 1 and SL No.5 & 6 are to be submitted in hard copies\*\*\*