

# **ASSAM ELECTRICITY GRID CORPORATION LIMITED**

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CIN:U40101AS2003SGC007238

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## **TENDER DOCUMENT**

**Name of work: - Re-construction of colony boundary wall at 132KV GSS, AEGCL, Dibrugarh.**

**NIT No: - AEGCL/DGM/TTC/DBR/O&M/TC-02/2025/3409; Dated 18/06/2025**

(A) **INFORMATION TO BIDDER:**

1. **NAME OF WORK: - Re-construction of colony boundary wall at 132KV GSS, AEGCL, Dibrugarh.**
2. **ESTIMATED AMOUNT:- Rs. 2,61,049.00 ( Rupees Two Lakhs Sixty One Thousand and Forty Nine only) (inclusive of GST).**

3. **LOCATION OF WORK: - 132KV GSS, AEGCL, Dibrugarh.**

4. **TENDER ADDRESS: - Office of the Deputy General Manager, T&T Circle, AEGCL, Dibrugarh.**

5. **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:** Bid document signed by bidder on all pages, Tender Document cost, Earnest Money, Techno-commercial data of the Bidder and other necessary documents must be enclosed.

**Envelope-2:** Price Bid

6. **KEY DATES:-**

- a) Bid Submission Start Time & date:- 12.00 Hrs. of **20/06/25**
- b) Bid Submission End Time & date:- 12.00 Hrs. of **11/07/25**
- c) Techno-Commercial Bid Opening Time & date:- 15.00 Hrs. of **11/07/25**

7. **TENDER PAPER COST AND MODE OF PAYMENT:-**

Bidder has to pay Non-Refundable tender document cost **@Rs. 500.00 (Rupees Five Hundred)** only in the form of DD in favour of the Managing Director, AEGCL, Bijulee-Bhawan, Paltanbazar, Guwahati-1, payable at Guwahati. The original copy of the DD/Banker's Cheque must be submitted along with relevant documents in the Envelope-1.

8. **BID SECURITY/EARNEST MONEY AND MODE OF PAYMENT:-**

- a) For participation in bidding procedure, participants must **compulsorily pay the Bid Security; there will be no exemption irrespective of any government certificate;** of **Rs 5,500(Rupees Five Thousand Five Hundred)** only in the form of Fixed Deposit/Demand Draft in favour of the Managing Director, AEGCL, Bijulee-Bhawan, Paltanbazar, Guwahati-1, payable at Guwahati. The original copy of the Bid Security must be submitted along with relevant documents in the Envelope-1.
- 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.

9. **PERFORMANCE GUARANTEE AND MODE OF PAYMENT: -**

- a) Warranty: 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 issue of LOA/NOA duly pledged in favour of the Purchaser concerned (AEGCL) and such security deposit shall be **valid up 60 days beyond the warranty period..** 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) 3.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. VALIDITY OF BID:-**

Bid shall remain valid for the period of 180 days from the date of bid submission end date.

**11. TIME OF COMPLETION:-**

- a) The allotted time of completion for the work is 90 days from the handing over of the site.

**12. DISCLAIMER:-**

- a) The purchaser 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 the purchaser to proceed with any part or steps of the process.

**13. LANGUAGE OF BID:-**

The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and purchaser, shall be written in the English and / or Assamese language.

**14. NEGOTIATION WITH BIDDER:-**

The purchaser reserves 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. Cost quoted by bidder shall be inclusive of all scope of work as specified in the bidding document including any related services that is implicit to carry out the work successfully. Price will be firm and no price variation will be allowed within the completion period given in the work order.

**15. 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.

**16. 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.

**(B) ELIGIBILITY CRITERIA.**

**1. EXPERIENCE**

- a) A Bidder may be a private entity or a government-owned entity or any combination of such entity 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.
- b) A Bidder, and all partners constituting the Bidder, shall have Indian nationality.

- c) To be qualified for the bid, the bidder must compulsorily meet the following minimum criteria: bidder must establish the experience as single contractor.
- i) Bidder must have valid work experience of similar work like construction, repairing and maintenance of building, wall executed within the last 7 years at any Govt. Deptt., PSU, etc. conforming either of the following requirements and submit supporting documents (Copy of Work Orders and Completion Certificate) to establish work experience. The purchaser holds the authority to verify the documents provided in support of work experience.

SI No	Description	Amount not less than (Rs)
1	3 (three) similar completed works	1,10,000.00
2	2 (two) similar completed works	1,31,000.00
3	1 (one) similar completed work	2,10,000.00

If the nature of work and value differs from the above stated conditions, it will not be considered while evaluation of technical qualification.

- \* The purchaser holds the authority to verify the documents provided in support of work experience.

## 2. FINANCIAL QUALIFICATION

- a) Minimum average annual turnover of **Rs.1,00,000.00. (Rupees One Lakh)** only calculated as total certified payments received for contracts in progress or completed, within the last 3 (Three) Years, ending 31<sup>st</sup> March of the previous financial year. Audited Balance sheet must be furnished as a proof of annual turnover. Any other form of supporting documents instead of Audited balance sheet will not be accepted. The bidder should be financially sound.  
Current bank solvency certificate must be submitted to show the bidder's financial position.
- b) The contractor shall make good at his own cost and to the satisfaction of the purchaser all defects, or other faults which may appear during the defect liability period.  
In default, the purchaser may employ and pay other agency or persons to amend and make good such damages. Losses and expenses consequent thereon or incidental there to shall be made good and borne by the contractor, failing which the same shall be recoverable from the payment due to the contractor.

## 3. 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 SI 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 be 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.

#### 4. **SITE VISIT**

The bidders are advised to visit the site of work and obtain for itself on its own responsibility all the information for necessary for preparing the bid.

#### 5. **QUERY ON THE BIDDING DOCUMENT**

Prospective Bidder may submit queries, if felt necessary, requesting clarification of any bid clause. Such queries must be submitted in the O/o the DGM, T&T Circle, AEGCL, Dibrugarh by the Tender Clarification end date and time mentioned in the Bid Data Sheet. Purchaser shall clarify to the extent felt necessary. Any query outside the mail or in physical letters after due date shall not be entertained.

#### 6. **DEADLINE FOR SUBMISSION OF BIDS**

Bids shall be received only on or before the date and time indicated in the Bid Data Sheet. The Purchaser may, at its discretion, extend the deadline for the submission of bids by amending the Bidding Document, in which case all rights and obligations of the Purchaser and Bidders previously subject to the deadline shall thereafter be subject to the deadline as extended.

#### 7. **OPENING OF TECHNO-COMMERCIAL BIDS:-**

The opening of the techno-commercial bid shall be conducted at the address as per the date and time specified in the bid document on the basis of technical qualification, Financial qualifications and fulfilment of the legal conditions.

Price Bids of those bidders shall only be opened whose techno-commercial bids are found to be responsive to the requirement of the bidding document and intimation will be issued in due course.

- \* Any interrelations, erasures, or overwriting shall be valid only if they are signed or initialised by the person signing the bid.

#### 8. **PRILIMINARY EXAMINATION OF TECHNICAL BIDS:-**

The purchaser shall examine the Techno-Commercial Bid to confirm that all the documents and technical documentation requested in this bidding document have been provided and to determine the completeness of each document submitted. If any of these documents or information is missing, **the Bid may be rejected**. The purchaser shall confirm the following documents and information have been provided in the Technical Bid. If any of the following document or information is missing or found incorrect, **the offer shall be rejected**.

1. Original copy **of tender document cost payment receipt**.
2. Original copy **of EMD BG or Online EMD payment receipt** and
3. Duly Filled and signed **Tender Submission Form**.

Bidders should submit hard copies of the documents mentioned above in (1), (2) and (3) in a physical envelope prior to the deadline for technical bid submission. Techno-commercial bids shall be summarily rejected if these three documents are not submitted in hard copy or via email by the deadline for technical bid submission.

#### 9. **RESPONSIVENESS OF TECHNO-COMMERCIAL BID:-**

The purchaser shall examine the Techno-commercial Proposal, to confirm that the requirement of the bidding document have been met without any material deviation or reservation. If the bid is not substantially responsive to the requirements of the Bidding Document, it shall be rejected by the Purchaser and may not subsequently be made responsive by correction of the material deviation, reservation, or omission.

#### 10. **CORRECTION OF ARITHMETICAL ERRORS**

1. Where there are errors between the total of the amounts given under the column for the price breakdown and the amount given under the Total Price, the former shall prevail and the latter will be corrected accordingly.
  2. Where there are errors between the total (sum) of the amounts of the different Schedule(s) and the amount given in terms of a Grand Total or Grand Summary, as the case may be the former shall prevail and the latter will be corrected accordingly.
  3. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetical error, in which case the amount in figures shall prevail subject to (1) and (2) above.
- \* If the Bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid **shall be disqualified and its bid security may be forfeited.**

#### 11. **EVALUATION OF PRICE BIDS**

To evaluate a Price Bid, the Purchaser shall consider the following:

1. The bid price including GST as quoted in the Price Schedule.
2. Price adjustment for correction of arithmetical errors in accordance with Clause (B)9.
3. The Purchaser shall use the criteria and methodologies listed in this Clause. No other evaluation criteria or methodologies shall be used.

#### 12. **AWARD CRITERIA**

The purchaser shall in general award the contract to the lowest substantially responsive bidder. However, the purchaser reserves the right to not award contract to the lowest substantially responsive bidder without thereby incurring any liabilities to bidders.

#### 13. **RIGHT TO REJECT**

The purchaser reserves the right to reject any or all the bids without assigning any reason thereof and the purchaser further reserves the right to split up the work order in favour of more than one Contractor. The purchaser also reserves the right to reject the lowest or any other price without assigning any reason. 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).

### **(C)**

#### 1. **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 in AEGCL's General Conditions of Supply and Erection 2009 of contract within 15 (ten) 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.

#### 2. **PAYMENT TERMS:-**

- a) No advance/Mobilization advance shall be made in this contract.
- b) No claim for interest shall be entertained by AEGCL.
- c) Final bill must contain the original site register.

- d) Final payment shall be released to the contractor only after completion of the work in all respect and final acceptance by AEGCL.
- e) Payment is subject to availability of specific fund.
- f) 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

**3. 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.

**4. WARRANTY:-**

- a) The contractor warrants that all the Goods are new, unused and of the most recent or current models, and that they incorporate all recent improvements in design and materials, unless provided otherwise in the Contract.
- b) The term period of warranty shall mean the period of 18 months from the date of Taking Over of the Work by AEGCL. A Taking over Certificate (TOC) will be issued by the appropriate authority.
- c) If during the period of warranty any defect should be found, the purchaser shall give Notice to the contractor stating the nature of any such defects together with all available evidence

**5. EXTENSION OF TIME FOR COMPLETION**

- a) Time is the essence of the contract. No extension of time shall normally be allowed except on valid and genuine ground.

**6. CONTRACTUAL FAILURE, LIQUIDATED DAMAGE AND PENALTY:-**

- a) Liquidity Damages 1.0% (one percent) of the amount of delayed work per week subjected to the maximum 10 % of the contract value.

**7. 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.

**8. 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.

**9. 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. 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.

**10. DEVIATION/ERROR IN DRAWING AND SPECIFICATIONS:-**

- a) In case of non-suitability of drawing or specifications, the matter to be brought to the notice of Competent Authority without any delay. Any modification or deviation should only be done after approval of Competent Authority.
- b) In case of any omission and error in the drawing and specification the same procedure as above should be followed.

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

- (a) The Tendered rates shall hold good for any variations in the Tendered quantities for completion of work on account of any modification in the bill of quantities or design or specification.
- (b) **Deletion of work:**  
AEGCL and its representative 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.

**12. 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.

**13. 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.

**14. INSURANCE: -**

The bidder shall arrange for any pay/cost of personnel accident insurance, medical treatment etc. in respect of their employees assigned to the works for all time and shall govern by Law of the land.

**15. 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 or damages from any sums due or to become due to the Contractor.

**16. 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 claim 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.
- (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.

**(D)**

**GENERAL SPECIFICATION OF WORK:**

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

**1. 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 roads 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.

**2. REINFORCEMENT:-**

- i) All reinforcement shall be cleaned thoroughly by removing loose scales, oil, grease or other deleterious materials. The contractor shall obtain the approval of the Engineer-in-charge or his representative to the reinforcement when fixed in position before any concrete is deposited in the forms.
  - ii) Bars shall be bent cold or straightened in a manner to the satisfaction of the Engineer-in-charge or his representative. Bars bent during transport or handling shall be straightened before using on work. They shall not be heated to facilitate bending. Welding shall be done as per latest IS Code of practice.
  - iii) All reinforcement bars shall be cut and standard hooks for MS rounds made at ends and accurately placed in position as shown on the approved drawings. They shall be securely held in position before and during concreting by annealed binding wires used for binding the reinforcement which shall be of approved quality soft annealed iron wire not less than 1 mm (18SWG) size, conforming to IS:280.
  - iv) As far as possible, bars of full length shall be used. Where bars are required or permitted to be lapped by the Engineer-in-charge, or his representative, the over laps shall be staggered for different bars and located at points, along the span where bending moment is not maximum. The concrete measured over the reinforcing bars shall be in accordance with the approved drawings.
- b) SHUTTERING AND CENTERING:-**
- i) Shuttering for concrete shall be made of either metal or timber suitably lined and of substantial and rigid construction true to shape, alignment and dimensions as shown on the approved drawings
  - ii) Shuttering shall be mortar tight and shall be made sufficiency rigid by the use of ties and bracings to prevent any displacement, deflection or movement of any kind. They shall be strong enough to withstand all pressure, ramming and vibration, movement of persons, materials and plant during and after placing the concrete. Special measures shall be taken to ensure that the form work does not hinder the shrinkage of concrete because without this cracking could occur before the form work is removed.
  - iii) When the Shuttering is ready for commencing concreting, the contractor shall inform the Site-in-charge or his representative to inspect and accept the shuttering as to their strength, alignment and

- general fitness.
- iv) **If the Site-in-charge is satisfied with the quality of shuttering then may allow the contractor for pouring concrete.**
  - v) **Poor or old shuttering should not be used. The Site In-Charge at his own discretion may reject any shuttering material if found not satisfactory.**
  - c) **REINFORCED CEMENT CONCRETE:-**
    - i) Optimum quantity of water shall be mixed to produce the design mix/nominal mix concrete of required workability.
    - ii) Workability shall be such that the concrete surrounds and properly grips all reinforcement.
    - iii) The degree of consistency, which shall depend upon nature of work and method of vibration of concrete, shall be determined by regular slump tests to be carried out by the contractor at his cost.
    - iv) Usually for mass concrete in RCC works where vibrations are used the slumps shall be within 10mm to 25mm.
    - v) The frequency of such tests and the natures of slumps shall be maintained within the limits specified by the Engineer-in-charge.
    - vi) The Engineer-in-charge also reserves the right to carry out slump tests independently at his own discretion.
    - vii) Cube moulds should be prepared for destructive testing randomly as per instructions given by Engineer In-charge.
    - viii) Cement shall have to be weighed from bulk stocks at site and not by bags. It shall be weighed separately from the aggregates.
    - ix) Water shall either be measured by volume in calibrated buckets or weighed. All necessary equipment shall be maintained in a clean and serviceable condition. Their accuracy shall be periodically checked.
    - x) Honeycombed RCC structure should be dismantled immediately and reconstructed.
    - xi) If Reinforced Cement Concrete works include Stone masonry works then stone masonry works should be carried out in stages. After completing one stage mortar droppings shall be cleaned and Reinforced Cement Concrete works should be done before starting the second stage of stone masonry work.
  - d) **BRICK MASONRY:-**

Brick work in cement mortar with 1st class brick including racking out joints and dewatering if necessary, and curing complete as directed in sub-structure up to plinth level. Cement Mortar used should be in 1:4 proportion.
  - e) **CONSTRUCTION JOINT:-**
    - i) All construction joints horizontal or vertical shall be at predetermined position according to approved drawing or as directed by the Engineer-in-charge. Prior to commencement of fresh concreting over any construction joint which has set but hardened, the removal of laitance and roughening shall be done by wire brushing and washing and care shall be taken to avoid dislodgement of coarse aggregates.
    - ii) At construction joints where the concrete has hard, any skin or laitance shall be thoroughly hacked, swept cleaned and washed with clean fresh water. The surplus water shall be removed immediately before depositing fresh, concrete. The neat cement, grout shall be followed by 13mm thick layer of cement mortar of same proportion as in concrete and the concreting resumed immediately thereafter. The first batch of fresh concrete shall be forced hard on to the mortar layer and the set faces, angles and corners by means of compacting tools, vibrators etc. and the damping effect on vibration in such position shall be allowed for.
    - iii) Construction joints shall be avoided as far as possible in case of structure, especially at tensile zones. Where unavoidable, concreting shall be carried out continuously up to such joints which shall preferably be transverse to the line of main compression. However, in all cases, the position of construction joints shall be predetermined and got approved by the Engineer-in-charge.
  - f) **PLASTERING:-**
    - i) Surfaces to be rendered must be cleaned and made free from all dust, loose materials, grease, etc, and be well wetted for a few hours ( the wall should not be soaked but only damped evenly); but the wall should not be too wet.
    - ii) Plaster may be applied in one or two coats. No single coat should exceed 12 mm in thickness as thick coats shrink more and crack.

- iii) Plaster work on new construction should be deferred as much as possible so as to let shrinkage in reinforced concrete and masonry take place before plastering.
- iv) General proportion for cement plaster should be 1:4.
- g) **CURING:-**
- i) Curing should be done as soon as possible after concrete is placed and when initial set has occurred and before it has hardened. It should be continued for a minimum period of 7 to 12 days when normal (Portland) cement is used, 4 to 7 days when rapid hardening cement is used, and should be kept thoroughly wet for 24 hours when high alumina cement is used.
- ii) Vertical surfaces may be covered with hanging curtains. Columns and small members shall be cured by wrapping round them wet sacks or by sprinkling water continuously. On vertical surfaces it should be checked that the wet fabric is in contact with the surface.
- iii) Water should be sprinkled on the underside of beams and slabs for proper curing.
- h) **PRIMING AND PAINTING:-**

As per specifications in the schedule of quantity.

- i) **STEEL WORKS:-**  
Any kind of steel structural work such as roof truss, door, window, grill, roofing etc. must be carried out in accordance to relevant IS codes, approved drawing, specifications and as per directions of the Engineer In-charge.

### 3. **SUPPLY OF MATERIALS:-**

- a) The supply of materials should be as per ISI standard.
- b) The purchaser reserves the right to carry out quality Audit/inspection of all the supply materials and if found not in accordance with scope of contract, supplied materials shall be rejected.

### (E) **WORK SCHEDULE.**

#### 1. **SITE HANDOVER:-**

- a) Handing over of the work site will be done in presence of Project Manager or its authorized representative, Resident Engineer, site engineer and contractor or its authorized representative.
- b) The contractor has to submit the list of manpower along with contact numbers to be engaged for the work to the Project Manager.
- c) The date of site handing over to be noted on the Site register duly signed by the Project Manager or its authorized representative, Resident Engineer, site engineer and contractor or its authorized representative.

#### 2. **WORK COMMENCEMENT:-**

The work should be started only after having the following documents.

- a) Work order
- b) Site Register
- c) Measurement Book
- d) Drawings
- e) Specifications of item & schedule of quantity

#### 3. **WORKING PROCEDURE:**

- a) **All materials must be procured only after verification and approved at store by AEGCL or any authorised representative.**
- b) Any materials bought to the site of work without approval from AEGCL, those materials will not be accepted and cannot be used in carrying out the work.
- 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.

### (F) **QUALITY CONTROL.**

- (a) AEGCL shall check the Contractor's work and notify the Contractor of any defects that are found.

AEGCL may instruct the Contractor to search for a Defect and to uncover and test any work that the AEGCL considers may have a Defect.

- (b) If desired by AEGCL, the contractor must perform the test on construction materials. These tests listed in the document should be carried out as per Indian Standard Code specifications of the respective tests. Proper records of these tests should be maintained.

1. Tests for fresh concrete:

- (i) Workability: To determine the workability of fresh concrete by slump test as per IS: 1199-1959

2. Tests on Hardened Concrete:

- (i) Non-destructive tests:

Rebound hammer test: To assess the likely compressive strength of concrete by using rebound hammer as per IS:13311(Part 2)-1992

Compression test: to determine the compressive strength of concrete specimens as per IS:516-1959

3. Tests on Brick:

Testing of brick should be done as per IS 1077:1992 and related IS Codes

- (i) Compressive strength test: IS 3495(Part-1): 1992

- (ii) Water Absorption test: IS 3495(Part-2) : 1992

- (iii) Efflorescence test: IS 3495(Part-3) : 1992

4. Tests for Steel:

- (i) All reinforced steel bar should meet the specifications of IS 1786:2008

- (c) If AEGCL instructs the Contractor to carry out a test not specified in the Specification to check whether any work has a Defect and the test shows that it does, the Contractor shall pay for the test and any samples.

**(G) CORRECTION OF DEFECTS:-**

- (a) AEGCL shall give notice to the Contractor of any Defects before the end of the Defects Liability Period, which begins at Completion and is defined in the Contract Data. The Defects Liability Period shall be extended for as long as Defects remain to be corrected.

- (b) Every time notice of a Defect is given, the Contractor shall correct the notified Defect within the length of time specified by the AEGCL notice.

**(H) UNCORRECTED DEFECTS:-**

If the Contractor has not corrected a Defect within the time specified in the AEGCL notice. AEGCL will assess the cost of having the Defect corrected, and the Contractor will pay this amount.

## BILL OF QUANTITY

**Price Bid (To be provided in separate envelope & should be inclusive of GST)**

**Name of the work:- Re-construction of colony boundary wall at 132KV GSS, AEGCL, Dibrugarh.**

Sl. No	Description	Unit	Qty	Rate	Amount
1.	Demolishing R.C.C. work manually/ by mechanical means including stacking of steel bars and disposal of unserviceable material within 50 metres lead as per direction of Engineer - in- charge.	cum	0.79		
2.	Earth work in excavation by mechanical means (Hydraulic excavator)/ manual means over areas (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) including getting out and disposal of excavated earth lead upto 50 m and lift upto 1.5 m, as directed by Engineer-in-charge. All kinds of soil	cum	9.36		
3.	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement : 6 coarse sand : 12 graded stone aggregate 20 mm nominal size) upto plinth level with : Cement mortar 1:6 (1 cement : 6 coarse sand)	cum	2.39		
4.	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:3:6 (1 Cement : 3 coarse sand (zone-III) derived from natural sources : 6 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	0.19		
5.	Centering and shuttering including strutting, propping etc. and removal of form for Foundations, footings, bases of columns, etc. for mass concrete	sqm	11.7		
	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	14.12		
	Columns, Pillars, Piers, Abutments, Posts and Struts	sqm	32.76		
6.	Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete upto plinth level. Thermo-Mechanically Treated bars of grade Fe-500D or more.	kg	536.61		
7.	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost	cum	1.27		

	of centering, shuttering, finishing and reinforcement - All work up to plinth level : 1:1.5:3 (1 cement : 1.5 coarse sand (zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)				
8.	Reinforced cement concrete work in walls (any thickness), including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts etc. above plinth level up to floor five level, excluding cost of centering, shuttering, finishing and reinforcement : 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources)	cum	1.8		
9.	Reinforced cement concrete work in beams, suspended floors, roofs having slope up to 15° landings, balconies, shelves, chajjas, lintels, bands, plain window sills, staircases and spiral stair cases above plinth level up to floor five level, excluding the cost of centering, shuttering, finishing and reinforcement with 1:1.5:3 (1 cement : 1.5 coarse sand(zone-III) derived from natural sources : 3 graded stone aggregate 20 mm nominal size derived from natural sources).	cum	1.59		
10.	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in :4.1 Cement mortar 1:4 (1 cement : 4 coarse sand)	cum	2.52		
11.	Steel work welded in built up sections/ framed work, including cutting, hoisting, fixing in position and applying a priming coat of approved steel primer using structural steel etc. as required. In gratings, frames, guard bar, ladder, railings, brackets,gates and similar works	kg	50.16		
12.	15 mm cement plaster on the rough side of single or half brick wall of mix : 1:4 (1 cement: 4 fine sand)	sqm	51.2		
13.	Providing and applying white cement based putty of average thickness 1 mm, of approved brand and manufacturer, over the plastered wall surface to prepare the surface even and smooth complete.	sqm	67.2		
14.	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound ) content. With ready mixed pink or grey primer on wood	sqm	67.2		

	work(hard and soft wood) having VOC content less than 50 grams/ litre				
15.	Wall painting with acrylic emulsion paint, having VOC (Volatile Organic Compound ) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. Two coats	sqm	67.2		
16.	Painting with black anti-corrosive bitumastic paint of approved brand and manufacture to give an even shade : Two or more coats on new work	sqm	1.56		
17.	Providing and fixing concertina coil fencing with punched tape concertina coil 600 mm dia 10 metre openable length ( total length 90 m), having 50 nos rounds per 6 metre length, upto 3 m height of wall with existing angle iron 'Y' shaped placed 2.4m or 3.00 m apartand with 9 horizontal R.B.T. reinforced barbed wire, stud tied with G.I. staples and G.I. clips to retain horizontal, including necessary bolts or G.I. barbed wire tied to angle iron, all complete as per direction of Engineer-in-charge, with reinforced barbed tape(R.B.T.) / Spring core (2.5mm thick) wire of high tensile strength of 165 kg/ sq.mm with tape (0.52 mm thick) and weight 43.478 gm/ metre (cost of M.S. angle, C.C. blocks shall be paid separately)	m	16		
18.	De-watering the water logged area around the boundary wall	l/s	1		
19.	Engagement of un-skilled labourers for shifting of broken wall materials to the GSS Site.	mandays	24		
				<b>Total Amount=</b>	

  
 Dy. General Manager,  
 T&T Circle, AEGCL, Dibrugarh

*Appendix-1*

**COVERING LETTER (ON THE BIDDERS LETTER HEAD)**

To,  
The Deputy General Manager,  
T&T Circle, AEGCL,  
Dibrugarh.

Sub: Submission of Tender.

Ref: -

1. NIT No:
2. Name of work:-

Sir,

Having examined the 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.

I /We clearly understand that all materials, tools and plants, machineries, labours, testing of material, storage, 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.



## Appendix-2

### PROFILE OF THE BIDDER

Hard copy of the following documents to be submitted with Techno-Commercial Bid.

Sl. No.	Particulars	To be filled by Bidder
a)	Name of the Bidder	:-
b)	Registration with Memorandum of Association	:-
c)	PAN	:-
d)	GST Registration number	:-
e)	EPF(within last 2 months challan & acknowledgement slip)	
f)	IT Returns (last 3 Years)	
g)	Bank Solvency certificate(within last 3 months & including the amount)	
h)	Audited Balance Sheet(last 3 Years, CA Certified)	
i)	Annual Turnover(last 3 Years, CA certified)	
j)	Labour License registration	:-
k)	Date of Establishment/ Incorporation	:-
l)	Postal Address	:-
	House No.	:-
	Lane	:-
	Street	:-
	Town/Village	:-
	Post Office	:-
	P.S.	:-
	District	:-
	Pin code	:-
m)	Telephone Number	:-
	Mobile No.	:-
	E-Mail Address	:-
	Website	:-
n)	Name(s) of the Owners / Directors/Partners	:-

o)	Name of the Banker with Address and Telephone Number	:-
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	<p>Contact Person Details</p> <p><i>(Furnish here name of that person with whom AEGCL may get in touch for more information or clarifications)</i></p>	<p>Name: -</p> <p>Designation: -</p> <p>Mobile Number: -</p> <p>Email Address:-</p>
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### Appendix-3

#### WORK EXPERIENCE OF THE BIDDER

Following documents to be submitted with Techno-Commercial Bid (Envelope-1)

In order to techno-commercially qualify for this Bid, the bidders have to submit work orders along with Completion certificate for similar nature of work like construction of building, repairing & renovation of building, wall etc, executed within last 7 (seven) years at any Govt. Deptt., PSU etc. As per guidelines laid down in the technical qualifications clause. The work completion certificate must be duly signed by the officers not below the rank of Executive Engineer/Assistant General Manager.

If the nature of work and value differs from the above stated conditions, it will not be considered while evaluation of technical qualification.

Sl. No.	Name of work	Nature of Work	Executed Amount	Starting Date	Completion Date
a)					
b)					
c)					

NB:- The Bidder may prepare extra sheet if required

## Appendix-4

### **FINANCIAL QUALIFICATIONS**

Following documents to be submitted with Techno-Commercial Bid (Envelope-1)

In order to techno-commercially qualify for this Bid, the bidders have to submit annual audit report for last 3 (Three) years. As per the guidelines laid down in clause no (A) i.e. **(ELIGIBILITY QUALIFICATION) 4. i.e. (FINANCIAL QUALIFICATION)**.

1.	<b>Financial Qualifications:</b>
a)	Minimum average annual turnover of ₹ _____calculated as total certified payments received for contracts in progress or completed.
b)	Minimum cash flow of _____showing financial resources such as liquid assets unencumbered real assets, line of credit and other financial means. Bank solvency certificate to be submitted.

NB:- The Bidder may prepare extra sheet if required