

ASSAM ELECTRICITY GRID CORPORATION LIMITED
Regd. Office: 1st Floor, BijuleeBhawan, Paltan Bazar, Guwahati-781001
CIN:U40101AS2003SGC007238
Ph:-0361-2739520/Fax:-0361-2739513 Web: www.aegcl.co.in



TENDER DOCUMENT

Name of Work: - Construction of approach road towards Transit Camp with PCC (upto the existing approach road of 132/33 KV Paltanbazar GIS) along with PCC at two wheeler parking Shed & installation of street lights at Bijulee Bhawan Premises.

**Chief General Manager (PP&D),
AEGCL, BijuleeBhawan**

**NIT No:- AEGCL/MD/BBM/Renovation & Illumination of parking/Bijulee
Bhawan/2023/Part-I/07 Date:- 30.12.2023**

Tender Document Cost - ₹ 1000/- (Non- Refundable)

For and on behalf of the Managing Director, Assam Electricity Grid Corporation Limited (AEGCL), the Chief General Manager (PP&D) invites **Limited Tender within the empanelled contractors of BBM (HQ)** for the work **“Construction of approach road towards Transit Camp with PCC (up to the existing approach road of 132/33 KV Paltanbazar GIS) along with PCC at two wheeler parking Shed & installation of street lights at Bijulee Bhawan Premises.”**

A single stage two envelope procedure (Techno-Commercial and Price Bid) will be adopted for this tender. **Two different envelopes to be used as follows:-**

Envelope-1: Bid document signed by the bidder on all pages, Earnest Money Deposit, Valid Labour license, Bank solvency, EPF, latest ITR, GST, PAN.

Envelope-2: Price Bid

All tenders shall have to be submitted under sealed/& signed covers super-scribing the Tender Notice No with date and name of the work completely and clearly on the top of the cover.

(1) INFORMATION TO BIDDER:

I. NAME OF WORK:-“Construction of approach road towards Transit Camp with PCC (upto the existing approach road of 132/33 KV Paltanbazar GIS) along with PCC at two wheeler parking Shed & installation of street lights at Bijulee Bhawan Premises.”

II. LOCATION OF WORK:- Bijulee Bhawan, Paltan Bazar, Guwahati, Assam.

III. CONTACT ADDRESS: -

O/o the MD, AEGCL, Bijulee Bhawan, Paltanbazar,Guwahati-781001.

IV. BIDDING PROCEDURE: -The bidders have to collect the bid document from the concerned office and obtain other necessary information for submission of the bid.

(2) BASIC DETAILS:

a)	NIT No.:	AEGCL/MD/BBM/Renovation & Illumination of parking/Bijulee Bhawan/2023/Part-I/07 Date:- 30.13.2023
b)	Tender Details/ Name of work:-	“ Construction of approach road towards Transit Camp with PCC (upto the existing approach road of 132/33 KV Paltanbazar GIS) along with PCC at two wheeler parking Shed & installation of street lights at Bijulee Bhawan Premises”
c)	Work Type:-	Civil & Electrical Works
d)	Tender Type:-	Limited Tender within the Empanelled contractors of BBM (HQ)
e)	Tender Inviting Authority:	

	(i) Designation: (ii) Address:	Chief General Manager (PP&D), AEGCL, Bijulee Bhawan, Paltan Bazar, Guwahati, Assam.
f)	Total Tender Value:	Rs 15,28,788.00 (inclusive of GST)
g)	EMD/Bid Security:	Rs. 30,600.00 (Thirty Thousand Six Hundred) through Demand Draft in favour of the Managing Director, AEGCL, Payable at Guwahati
h)	Tender paper cost:	Rs. 1000.00 (Through DD)
i)	CRITICAL DATES:-	
	Tender Start Date	30/12/2023 1000 Hrs 00 Mins
	Submission Start Date	01/01/2024 1400 Hrs 00 Mins
	Tender End Date	17/01/2024 1200 Hrs 00 Mins
	Tender Opening Date	17/01/2024 1300 Hrs 00 Mins

(3) TENDER VALUE:

The tender value **inclusive of GST** is **Rs 15,28,788.00 (Rupees Fifteen Lakh Twenty Eight Thousand Seven Hundred Eighty Eight)** only

I. 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 Doc fee of **Rs. 1000.00 (Rupees One thousand Only)** through Demand Draft in favour of “**Managing Director, AEGCL, payable at Guwahati.**

II) SECURITY DEPOSIT MONEY:-The **Security Deposit** to be taken for the performance of the work under the terms & condition laid down in the tender form (AEGCL) will be a deduction of 10% from the bill on account of the work done. Therefore the Performance Bank Guarantee is not required for this. The Security deposit of 10% will be released after the completion of the **warranty period of 18 (Eighteen) Months**. No interest shall be payable on such deposits.

III) In case of unsuccessful tenderer, **Earnest Money Deposit (EMD)** will be released on request from the tenderer on a date subsequent to issued work order with the successful tenderer. In case of successful bidder earnest money will be released after the deduction of Security Deposit money from the bill.

(4) VALIDITY OF BID: -

Bid shall remain valid for the period of **180 (One Eighty) 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. The request and the responses shall be made in writing.

(5) TIME OF COMPLETION: -

The allotted time of completion for the work is **90 (Ninety) days** from the date of issue of work order.

(6) DISCLAIMER: -

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.

- (7) **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.
- (8) **LANGUAGE OF BID: -**
The Bid, as well as all correspondence and documents relating to the bid exchanged by the Bidder and AEGCL, shall be written in the English and/or Assamese language.
- (9) **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.
- (10) **VERIFICATION OF DOCUMENTS: -**
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.
- (11) **RIGHT TO REJECT: -**
a) The AEGCL reserves the right to reject any or all the bids without assigning any reason thereof and the AEGCL further reserves the right to split up the work order in favour of more than one Contractor. The AEGCL also reserves the right to reject the lowest or any other price without assigning any reason. The clauses which are not appearing in this 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**
b) **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 and any other action as deem fit may be taken by AEGCL.**
- (C) **LEGAL ENTITY:-**
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.
- (12) **GENERAL CONDITIONS OF CONTRACT:**
a) The Tenderer should fully understand the site condition and have proper assessment of work. They are advised to visit the site and know the actual ground condition, means of access to the site the accommodation they may require and in general shall themselves obtain all necessary information as to risks contingencies and other circumstances which may influence or affect their tender. A Tenderer shall deemed to have full knowledge of the site whether he inspects it or not and no extra charges consequent on any misunderstanding or otherwise shall be allowed. The Tenderer shall be responsible for arranging and monitoring at his own cost and all the materials, tools and plants water, electricity access, facilities of workers and other services required for execution of the work unless otherwise specifically provided for in the contract document. Submission of tender by a tenderer implies that he has read the notice and all other contract documents

- and made himself aware of the scope and specification of the work to be done.
- b) Technical Bid and Price Bid should be signed by the same authorized signatory.

(c) **SPECIAL CONDITIONS OF CONTRACT**

No tools and plant will be supplied by the AEGCL authority and the tenderer will have to make their own arrangements for providing necessary tools and plant required for proper completion of work.

(13) **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.

(14) **LABOUR LEGISLATION: -**

- a) The Bidder shall comply with the provisions of The Assam lift and Escalator act 2006, Apprentices Act 1961, payment of Wages Act 1936, Minimum Wages Act 1948, Employers 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 and any other rule 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. 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 or by taking any other legal action as deem fit and proper by AEGCL.

(15) **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.
- b) **ELIGIBILITY OF CONTRACTOR'S EMPLOYEES: -**
The Contractor shall employ in and about the Execution of the works only such persons as are skilled and experienced in similar works. A list of such personnel should be submitted in corresponding Appendix 2.

- (16) **TAXES: -**
Any taxes, royalties and duties as per Govt. Law should be responsibility of the contractor and must be included in their quoted rate.
- (17) **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.
- (18) **DAMAGE TO PERSON AND PROPERTY: -**
The Contractor shall be responsible for all injury to the work or to workmen, to persons, animals or things and for all damages to the structural and/or decorative part of property which may arise from the operations or neglect of contractor or its employees, against whether such injury or damage arise from carelessness, accident or any other cause whatsoever in any way connected with the carrying out of this Contract. The Contractor shall at his cost effect the insurance necessary and indemnify AEGCL entirely from all responsibility in this respect. The scope of insurance is to include loss or damage to the work and workmen due to carelessness, accident including fire, earthquake, floods, all medical expenses, compensation to be borne in the event of accident etc., damage or loss to the Contract itself till this is made over a complete state. Insurance is compulsory and must be affected from the very initial stage and should cover the entire contract period till handing over of complete works. The Contractor shall also be responsible for any 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.
- (19) **ACCEPTANCE OF BID AND CONTRACT AGREEMENT:-**
An agreement shall have to be drawn on non-judicial stamp of appropriate denomination with AEGCL by the selected Contractor within 15 (fifteen) days from the date of issue of the LOI/Work order. (Not Required for empaneled contractor as they already have an agreement with AEGCL). 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.
- (20) **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. **All other terms & conditions which are not mentioned here will conform to "AEGCL General Terms & Conditions of Supply & Erection 2009".**
 - c) No running bill shall be paid to the contractor.
 - d) Final bill must contain the Measurement Book.
 - e) First & Final payment shall be released to the contractor only after completion of the work
 - 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

(21) **EXTENSION OF TIME:-**
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) **DEATH, BANKRUPTCY ETC.:-**

- a) 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.
- b) In case of death of the Contractor before completion of work and supply, the Engineer or AEGCL shall be at liberty to:
 - c) 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.
 - d) 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.

(23) **CONTRACTUAL FAILURE, TERMINATION, LIQUIDATED DAMAGE AND PENALTY:-**
Liquidity Damages 1.0% (one percent) of the amount of delayed work per week subjected to the maximum 10 % of the contract value. 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

(24) **FORCE MAJEURE CONDITION**
Force Majeure condition shall be considered as any circumstances beyond reasonable control of the party claiming relief, including but not limited to strikes, lockout, civil commotion, riot insurrection, hostilities, mobilization, war, fire, flood, earthquake, malicious damage or accidents could entitle contractor to extension time. Any such delay should be intimated by the contractor within 10 (ten) days from the beginning of such delay for consideration, any claim without aforementioned may not be considered under force Majeure.

(25) **SETTLEMENT OF DISPUTE AND ARBITRATION:-**
Any dispute arising out of the contract will be first settled bilaterally between AEGCL and Contractor. In case, dispute cannot be settled bilaterally, it will be referred to arbitration to a sale arbitrator appointed by AEGCL. The contractor shall not stop the work during settlement of any dispute if not specially directed by AEGCL. All disputes shall be subjected to the jurisdiction of District Court of respective District of work.

(26) **WORK SCHEDULE:**
WORK COMMENCEMENT: -
The work should be started only after having the following documents.

- a) Work Order
- b) Specifications of item & schedule of Quantity as **Annexure**

(27) **Scope of Work:-**The scope of work involves Construction of approach road with plain cement concrete (using **M-20 grade of concrete, 1:1.5:3**) from existing pcc road of 132/33kv paltanbazar GIS, along with installation of 10 (ten) nos street light at Bijulee Bhawan.

(28) **SITE PREPARATION:-**
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.
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.
Any unnecessary structures are to be demolished and serviceable materials to be stacked and stored as directed by AEGCL.
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.
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.
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.

(29) **PROFILE SETTING AND LEVELLING:-**
Profile setting and levelling for the site has to be carried out by the Contractor for finding the amount of earth cutting and filling that will be required for setting the Final Ground Level, Tie Beam Level and to find the amount of excavation to be done for required foundation depth.

(30) **SETTING OF LAYOUT:-**
The Site In-charge shall supply dimensioned drawings, levels and other information necessary to enable the Contractor to set out the works and the Contractor shall set out the works and be responsible for the accuracy of the same.

(31) **EXCAVATION AND BACKFILLING:-**
Trenches for foundation and other structures shall be taken out to the levels and dimensions shown on the approved drawings or to such other levels and dimensions as the Engineer-in-charge may direct. The bottom of all excavations shall be carefully levelled and stopped on benches as directed by the Engineer. Any pocket of soft or loose materials and fissures in the bottom pits and trenches shall be removed and the cavities so formed filled or grouted with concrete as directed by Engineer-in-charge. When any excavation has been done and trimmed to the required levels and dimensions, the Engineer-in-charge shall be informed accordingly so that he may inspect the complete pit or trench and no excavation shall be filled in and covered with concrete until it has been inspected and the contractor has been authorized to proceed with work. All surplus excavation not required for refilling shall be deposited in embankments, or otherwise disposed off as directed. The work shall include all necessary sheeting, shoring, bracing, drawing and pumping out water, removal of all logs, stumps, grabs and other deleterious matters, obstructions, necessary for placing the foundations.
When required by the Engineer-in-charge, materials in the last 500mm of depth of the excavations shall not be removed until immediately before the concrete is to be

placed.

Refilling of foundation pits and trenches shall be carried out only after the foundation and structure works within the excavation have been inspected and approved by the Engineer-in-charge. Unless otherwise directed by the Engineer-in-charge all fillings shall consist of approved materials. All space between foundation concrete and the sides of excavation shall be refilled to the original surface using approved plant, in single layers not exceeding 250mm loose thickness which shall be watered and completed to a dry density not less than that of the adjoining soil strata. Timber sheeting and other excavation support shall be carefully removed as the filling proceeds but the removal of such supports will not relieve the contractor of his responsibility for the stability of the works.

(32) DEWATERING:-

Where water is met with during excavation due to stream flow, seepage, shoring, rain or other reasons, the contractor shall take adequate measures such as bailing, pumping, constructing diversion channel, drainage channel, ponds and other necessary works to keep the foundation trenches dry and to protect the green concrete against damage by eruption or sudden rising of water level.

Approval of the Engineer-in-charge shall be required for any method adopted, for the adequacy of dewatering and protection arrangements and for the sound safety of the work shall be required.

(33) PREPARATION OF BASE:-

Any excavation taken out to a greater depth than that required shall be back filled with concrete of the foundation grade at the cost of the contractor. If required sand may be used for backfilling, if permitted by Site In-Charge.

Refilling of foundation pits and trenches shall be carried out only after the foundation and structure works within the excavation have been inspected and approved by the Engineer-in-charge.

Unless otherwise directed by the Engineer-in-charge all fillings shall consist of approved materials.

All space between foundation concrete and the sides of excavation shall be refilled to the original surface using approved plant, in single layers not exceeding 250mm loose thickness which shall be watered and completed to a dry density not less than that of the adjoining soil strata.

Timber sheeting and other excavation support shall be carefully removed as the filling proceeds but the removal of such supports will not relieve the contractor of his responsibility for the stability of the works.

(34) BRICK SOLING:-

Bricks in soling should be well placed and the surface after placing of brick should be flat.

An extension of 75 mm should be maintained on each side of the footing or as specified in the drawing.

(35) PLAIN CEMENT CONCRETE:-

Plain Cement Concrete works must be carried out in dry condition and dewatering should be carried out wherever necessary before placing of concrete.

The proportion of Plain Cement Concrete should be 1:3:6 or as specified in the drawing and design. The quality of the mix will have to be checked and approved

by the Site In-charge.

Curing should be done properly and as per instructions.

(36) **SHORING AND PROPPING:-**

For pits and trenches requiring stabilising of slope, shoring or propping may be carried out at the Contractors own expense.

(37) **REINFORCEMENT:-**

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.

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.

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.

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 overlaps 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.

(38) **SHUTTERING AND CENTERING:-**

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

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.

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.

If the Site-in-charge is satisfied with the quality of shuttering then may allow the contractor for pouring concrete.

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.

(39) **REINFORCED CEMENT CONCRETE:-**

Optimum quantity of water shall be mixed to produce the design mix/nominal mix concrete of required workability.

Workability shall be such that the concrete surrounds and properly grips all reinforcement.

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.

Usually for mass concrete in RCC works where vibrations are used the slumps shall be within 10mm to 25mm.

The frequency of such tests and the natures of slumps shall be maintained within the limits specified by the Engineer-in-charge.

The Engineer-in-charge also reserves the right to carry out slump tests independently at his own discretion.

Cube moulds should be prepared for destructive testing randomly as per instructions given by Engineer In-charge.

Cement shall have to be weighed from bulk stocks at site and not by bags. It shall be weighed separately from the aggregates.

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.

Honeycombed RCC structure should be dismantled immediately and reconstructed.

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.

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.

(40) STONE MASONRY:-

Stones used should generally be small enough to be lifted and placed by hand.

The lengths of the stones should not exceed three times the height and, the breadth on base should not be greater than three-fourth of the thickness of the wall, not less than 15 cm.

The height of stones may be up to 30 cm.

Stones with round surface should not be used.

All stones should be wetted before use.

Percentage of water absorption shall not be more than 5%.

Mortar proportion for Stone Masonry works should be 1:6.

(41) WEEP HOLES:-

Sufficient No of weep holes including provision of Asbestos pipes (in the weep hole portion only) in abutments, wing and retaining walls is to be provided as directed by the Engineer-in-charge with contractors own labour, materials etc. No extra payments will be admissible for provision of the weep holes in RCC/Brick compound boundary wall and no deduction from quantity of concrete/Brick work shall be made for weep holes.

(42) 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.

- (43) **CONSTRUCTION JOINT:-**
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.
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.
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 to 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.
- (44) **PLASTERING:-**
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.
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.
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.
General proportion for cement plaster should be 1:4.
- (45) **CURING:-**
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.
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.
Water should be sprinkled on the underside of beams and slabs for proper curing.
- (46) **PRIMING AND PAINTING:-**
As per specifications in the schedule of quantity.
- (47) **WORK SCHEDULE.**
SITE HANDOVER:-
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.
The contractor has to submit the list of manpower along with contact numbers to

be engaged for the work to the Project Manager.

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.

(48)

WORK COMMENCEMENT:-

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

Work order

Measurement Book

Specifications of item & schedule of Quantity

(49)

QUALITY CONTROL.

If desired by AEGCL, the contractor must perform the test on construction materials. These test 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.

Tests for fresh concrete:

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

Appendix-1

COVERING LETTER (ON THE APPLICANT'S LETTER HEAD)

To,

The Chief General Manager (PP&D)
Assam Electricity Grid Corporation Limited
Bijulee Bhawan, Paltanbazar, Guwahati-01.

Sub: “Construction of approach road towards Transit Camp with PCC (upto the existing approach road of 132/33 KV Paltanbazar GIS) along with PCC at two wheeler parking Shed & installation of street lights at Bijulee Bhawan Premises”.

Ref: NIT No:- AEGCL/MD/BBM/Renovation & Illumination of parking/Bijulee Bhawan/2023/Part-I/07 Date:- 30.12.2023

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, 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.

Appendix-2

PROFILE OF THE BIDDER (Eligibility Criteria)

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 Empanelled Contractor of BBM, AEGCL	:-
b)	PAN	:-
c)	GST Registration number	:-
d)	Employees Provident Fund	:-
e)	Valid Labour License registration	:-
f)	Latest income tax return	
g)	Bank Solvency Certificate mentioning amount (not older than 30 days from the date of publishing the NIT) *Higher than the tender value*	:-
h)	Date of Establishment/ Incorporation	:-
i)	Postal Address	:-
	House No.	:-
	Lane	:-
	Street	:-
	Town/Village	:-
	Post Office	:-
	P.S.	:-
	District	:-
	Pin code	:-
j)	Telephone Number	:-
	Mobile No.	:-
	E-Mail Address	:-
	Website	:-
k)	Name(s) of the Owners / Directors/Partners	:-
l)	Name of the Banker with Address and Telephone Number	:-
m)	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:-