

ASSAM ELECTRICITY GRID CORPORATION LIMITED

**OFFICE OF THE DEPUTY GENERAL MANAGER
UPPER ASSAM T&T CIRCLE, GARMUR, JORHAT-07**



TENDER DOCUMENT

**NOTICE INVITING TENDER NO: AEGCL/DGM/UATTC/O&M/T-15/2019/4897 dt
22/11/19**

Name of work

Construction of Water Supply Scheme with installation of Deep tube well, construction of rapid sand filter of capacity 4 sqm, construction of Aeration Column and installation of other accessories at 220 kV GSS, AEGCL, Mariani

Work Site

220 KV GSS, Mariani, AEGCL

Signature of Contractor/Firm



Deputy General Manager
UAT&T Circle, AEGCL,
Garmur, Jorhat-07

- (A) **INFORMATION TO BIDDER:**
1. **NAME OF WORK: -**
Construction of Water Supply Scheme with installation of Deep tube well, construction of rapid sand filter of capacity 4 sqm, construction of Aeration Column and installation of other accessories at 220 kV GSS, AEGCL, Mariani.
Estimated Amount: Rs 23,18,613.00
 2. **LOCATION OF WORK: -220 KV GSS, Mariani, AEGCL**
 3. **TENDER ADDRESS: -Office of the DGM, UATTC, AEGCL, Garmur, Jorhat.**
 4. **BIDDING PROCEDURE: -**
 - a) The **ASSAM ELECTRICITY GRID CORPORATION LIMITED**, (“the Employer”) invites online bid through e-tendering from eligible bidders for “**Water Supply Scheme with installation of Deep tube well, construction of rapid sand filter of capacity 4 sqm, construction of Aeration Column and installation of other accessories at 220 kV GSS, AEGCL, Mariani**”.

The following points are to be noted and given special attention:

 - Bidder must create user ID in the web portal <https://assamtenders.gov.in> in order to participate in the e-tender.
 - Bidders shall be required to bid for the complete Package and no part offer shall be accepted.
 - b) Bidder must download the bidding documents from the above mentioned portal and both technical & Price bid must be submitted through **online mode only** along with all scanned supporting documents (Suggested scan at 150 dpi in .pdf format). Bidder can Re-work/Edit their bids before closing date of the tender. Bidders are advised to submit/re-work their bids well advance in time to avoid any last minute unforeseen hassle. **However, AEGCL may ask bidder to submit hard copies of GTP, Drawing, Manufacturer authorization of the major items and any other documents if deemed necessary.** Only Price Bid of responsive Techno-Commercial Bidders will be opened.
 - c) Bidders may obtain further information from the office of the **Deputy General Manager, UATTC, AEGCL, Garmur, Jorhat.**
 5. **KEY DATES: -**
 - a) Bid Document Available on website date: - 12.00 Hrs. of **27/11/19**
 - b) Bid Submission Start Time &date: - 12.00 Hrs. of **27/11/19**
 - c) Bid Submission End Time &date: - 12.00 Hrs. of **18/12/19**
 - d) Techno-Commercial Bid Opening Time &date: - 14.30 Hrs. of **19/12/19**
 6. **TENDER PAPER COST AND MODE OF PAYMENT: -**
Bidder has to pay Non-Refundable tender document cost @Rs. 1,000.00 (Rupees one thousand) only **via online mode only** in the portal, receipt of which should be uploaded along with techno-commercial bid.
 7. **BID SECURITY/EARNEST MONEY AND MODE OF PAYMENT: -**
 - a) For participation in bidding procedure, participants must compulsorily pay the Bid Security of Rs. **47,000.00** (Rupees forty-seven thousand) only **via online mode only** in the portal, receipt of which should be uploaded along with techno-commercial bid.
 - b) The bid security of the successful Bidder shall be returned as promptly as possible once the successful Bidder has signed the Contract.
 - c) The bid security of unsuccessful Bidders shall be returned as promptly as possible upon the successful Bidder ‘s signing of the agreement.
 - 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.
 8. **PERFORMANCE GUARANTEE: -**
 - a) The materials and entire work is to be guaranteed against defective design, materials and workmanship and for satisfactory performance for a period of 365 days from the date of final acceptance of the completed work. Performance Guarantee will be in the form of Bank Guarantee of 10% of the contract amount.
 - b) The successful Bidder shall have to deposit through a Bank Guarantee from a Nationalized or scheduled Bank of RBI in AEGCL’s standard proforma on non-judicial stamp of appropriate value for an amount equivalent to 10% (ten percent) of the total value of the order as performance security, within allotted time on acceptance of letter of intent/detailed orders (as the case may be), duly pledged in favour of the Purchaser concerned (AEGCL) and such security deposit shall be valid up to 30 days beyond the

warranty period of 12 (twelve) months.

- 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) No interest shall be payable on such deposits.

9. CLARIFICATIONS: -

- a) A prospective Bidder requiring any clarification of the Bidding Document shall contact the AEGCL in writing at the AEGCL's address indicated in the Bid Document or raise his enquiries prior to 7 (seven) days of closing of the bid. AEGCL will respond to any request for clarification if deemed necessary. Should AEGCL deem it necessary to amend the Bidding Document as a result of a request for clarification, it shall do so.
- b) The Bidder is advised to visit and examine the site where the work is to be Carried out and its surroundings and obtain for itself on its own responsibility all information that may be necessary for preparing the bid and entering into a contract. 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.

10. 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. The request and the responses shall be made in writing.

11. TIME OF COMPLETION:-

- a) The allotted time of completion for the work is 180 days from the handing over of the site. Moreover the General Manager (HQ) and DGM (Civil) must be intimidated in written about the handing over of the site to the contractor along with all necessary details.

12. 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.

13. 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 addenda.
- 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.
- c) Any corrigendum/Addendum/modifications issued to the bid documents will be published on the website mentioned above will be part of the Bid Document.

14. 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.

15. NEGOTIATION WITH BIDDER:-

- a) 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.

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.

17. RIGHT TO REJECT:-

- a) AEGCL reserves the right to reject any or all the bids without assigning any reason thereof and AEGCL further reserves the right to split up the work order in favour of more than one Contractor. 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) ELIGIBILITY QUALIFICATION.

1. ELIGIBLE BIDDERS:-

- 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) In the case of the Joint Venture (JV):-
When the bidder is a Joint Venture (JV) of two or more firms as partners, all partners shall be jointly and severally liable. The JV shall legally authorize one of the partners as the lead partner for the purpose of submitting the bid, incur liabilities; receive payments and instructions on behalf of the others. A copy of the registered JV agreement, executed on Non judicial stamp paper, shall be submitted with the bid. However, in case of successful bid, the agreement shall be signed by all the partners, so as to be legally binding on all the partners.
- c) A Bidder, and all partners constituting the Bidder, shall have Indian nationality.
- d) AEGCL considers a conflict of interest to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations, and that such conflict of interest may contribute to or constitute a prohibited practice under Anticorruption Policy of Government of India and Government Of Assam. In pursuance Anticorruption Policy's requirement that Employer as well as bidders, suppliers, and contractors observe the highest standard of ethics. AEGCL will take appropriate actions if it determines that a conflict of interest has flawed the integrity of any procurement process.
- e) Consequently all Bidders found to have a conflict of interest shall be disqualified. A Bidder may be considered to be in a conflict of interest with one or more parties in this bidding process if, including but not limited to:-
- f) they have controlling partners in common; or
- g) they receive or have received any direct or indirect subsidy from any of them; or
- h) they have the same legal representative for purposes of this bid; or
- i) they have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another Bidder, or influence the decisions of the Employer regarding this bidding process; or
- j) a Bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specifications of the plant and services that are the subject of the bid.
- k) 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.
- l) Bidders shall provide such evidence of their continued eligibility satisfactory to the AEGCL, as the Employer shall reasonably request.
- m) In case a prequalification process has been conducted prior to the bidding process, this bidding is open only to prequalified Bidders.
- n) 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.
- o) 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) In order to qualify technically for this Bid, the bidders have to furnish experience of **similar nature** of work executed within the last 7 years at any Govt. Deptt., PSU etc. conforming to **either of** the following requirements:

Sl No	Description	Amount not less than (Rs)
1	3 (three) similar completed works	9,50,000.00
2	2 (two) similar completed works	12,00,000.00
3	1 (one) similar completed work	18,60,000.00

If the nature of work and value differs from the above stated conditions, it will not be considered while evaluation of technical qualification. In this case, similar nature implies the bidder must have executed works in water supply scheme especially filtration units of ground water.

4. **FINANCIAL QUALIFICATION:-**

- a) Minimum average annual turnover of **Rs 7,00,000.00 (Rupees Seven Lakh)** only calculated as total certified payments received for contracts in progress or completed, within the last 3 (Three) Years, ending 31st 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.

- b) Current bank solvency certificate must be submitted to show the bidder's financial position.

5. EVALUATION CRITERIA:-

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

(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, establishment of labour camp, site office, means of access to the site etc. 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. 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 & requirement.

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 and T&P's that may be required in the work.
- d) All materials, labours, equipment, 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 conform to the specifications. No substandard materials will be allowed to utilize in the work. Samples of each and every materials 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, labour cost, insurance, statutory requirements, and any other expenditure deemed necessary for 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) Bidders quoted price should include all cost of testing of concrete (destructive or non-destructive) transportation of sample, storage, preparation and submission of report.
- 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. 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 none 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. Subject to availability of land, AEGCL may provide free site for labour camp, construction of yard etc. close to site of work.
- e) No assurance can be given regarding the availability of AEGCL's land given for use to the Bidder to natural calamities. AEGCL undertakes no responsibility or liability in this regard.
- f) The bidder shall make his own arrangement for arranging power supply as may be required for work. AEGCL may, however assist in recommending his/their application to the Electricity Supply Utility for the power supply on payment basis as per norms of the Electricity Supply Utility.
- g) 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.
- h) 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.
- i) 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. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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.

12. 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.

13. 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.

14. 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.

15. 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 10 (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.

16. STATUTORY AND SAFETY REQUIREMENT:-

- a) Each and every safety measures for MAN and MACHINE will be the sole responsibility of the Contractor without any prejudice. Compensation claim if any will also be the responsibility of the contractor without any prejudice.
- 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.
- 17. PAYMENT TERMS:-**
- a) No advance/Mobilization advance shall be made in this contract.
- b) No claim for interest shall be entertained by AEGCL.
- c) Two no's of Running bill payment will be made on completion of 30% and 60% of the work in terms of value.
- d) Running Bill must contain certified photocopies of Site Register of up to date work executed and photograph of work in sequence of execution duly signed with seal by AEGCL.
- e) Final bill must contain the original site register.
- f) Final payment shall be released to the contractor only after completion of the work in all respect and final acceptance by AEGCL.
- g) Payment is subject to availability of specific fund.
- h) 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
- 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) The term period of warranty shall mean the period of 12 months from the date of Taking Over of the Work by AEGCL. A Taking over Certificate (TOC) will be issued by the appropriate authority.
- 20. EXTENSION OF TIME:-**
- a) Time is the essence of the contract. No extension of time shall normally be allowed except on valid and genuine ground.
- 21. 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.
- 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:
- i. 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.
 - ii. 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, 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.
- 24. 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.

25. 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.

26. 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.

27. 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.

28. 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.

29. 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.

30. 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.

31. 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) GENERAL SPECIFICATIONS OF WORK.

1. 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.

- a) 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.

- b) Any unnecessary structures are to be demolished and serviceable materials to be stacked and stored as directed by AEGCL.
 - c) 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.
 - d) 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.
 - e) 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.
 - f) Any other work required for adequate preparation of the site shall be carried out by the Contractor.
2. **PROFILE SETTING AND LEVELLING:-**
- a) 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.
3. **SETTING OF LAYOUT:-**
- a) 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.
 - b) He shall rectify at his own cost and to the satisfaction of the Site In-charge any error found at any stage which may arise through in accurate setting out unless such error is based on incorrect data furnished in writing by the Site In-charge, in which case the cost of rectification shall be borne by the Corporation.
 - c) The Contractor shall protect and preserve all bench marks used in setting out the works till end of the Defects Liability Period unless the Site In-charge directs their earlier removal.
4. **EXCAVATION AND BACKFILLING:-**
- a) 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 legs, stumps, grabs and other deleterious matters, obstructions, necessary for placing the foundations.
 - b) 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.
 - c) 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 consists 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.
5. **DEWATERING:-**
- a) 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.
 - b) 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.
6. **PREPARATION OF BASE:-**
- a) 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.
 - b) 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.
 - c) Unless otherwise directed by the Engineer-in-charge all fillings shall consists of approved materials.
 - d) 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.
 - e) 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
7. **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.
8. **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.
9. **SHORING AND PROPPING:-**
For pits and trenches requiring stabilising of slope, shoring or propping may be carried out at the Contractors own expense.
10. **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 handing 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 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.
11. **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.
12. **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 giver by Site 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.

13. STONE MASONRY:-

- a) Stones used should generally be small enough to be lifted and placed by hand.
- b) 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.
- c) The height of stones may be up to 30 cm.
- d) Stones with round surface should not be used.
- e) All stones should be wetted before use.
- f) Percentage of water absorption shall not be more than 5%.
- g) Mortar proportion for Stone Masonry works should be 1:6.

14. WEEP HOLES:-

- a) 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.

15. BRICK MASONRY:-

- a) 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.

16. CONSTRUCTION JOINT:-

- a) 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.
- b) 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.
- c) 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.

17. PLASTERING:-

- a) 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.
- b) 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.
- c) 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.
- d) General proportion for cement plaster should be 1:4.

18. CURING:-

- a) 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.
- b) 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.
- c) Water should be sprinkled on the underside of beams and slabs for proper curing.

19. PRIMING AND PAINTING:-

- a) As per specifications in the schedule of quantity.

(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. **SITE REGISTER:-**

- a) It will be issued along with the work order.
- b) It will be the responsibility of the Contractor to record and update the site register with details of Day-to-Day activities and other details countersigned with seal by AEGCL.
- c) The days on which no work is carried out should be recorded in the site register with proper justification.
- d) Any instruction by AEGCL officials during site visit must be noted properly and should be jointly signed by the official and the contractor or its authorised representative.
In case of any disagreement, the Contractor must notify AEGCL in written.
- e) Any deviation in works must be properly noted in the site register by the Contractor along with proper justification for it.
- f) Progress report along with work completion percentage must be prepared by the Contractor on the basis of site register log and has to be submitted to AEGCL on 1st and 16th day of the month. In case of holiday, it should submit on next working day.
- g) Site register shall be verified from time to time by the Site In-charge and any anomalies found will be forwarded to higher authorities in written by the Site In-charge of AEGCL.

4. **PERT CHART OR BAR CHART:-**

The successful bidder within 10 (ten) days before the contract is awarded will make out a detailed PERT Chart covering all activities along with detailed program chart on accepted scheme indicating various stages of execution, method of execution and completion of work in different stages keeping the period of completion in view and submit the same to the Engineer for the consideration and approval.

(F) **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.

1. **Tests for fresh concrete:**

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

2. **Tests on Hardened Concrete:**

- a) 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
- b) 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

- a) Compressive strength test: IS 3495(Part-1): 1992
- b) Water Absorption test: IS 3495(Part-2) : 1992
- c) Efflorescence test: IS 3495(Part-3) : 1992

4. **Tests for Steel:**

All reinforced steel bar should meet the specifications of IS 1786:2008

SPECIAL TERMS AND CONDITIONS OF CONTRACT

Definition of terms

“Contract” means the Contract Agreement entered into between the Employer and the Contractor, together with the Contract Documents referred to therein; they shall constitute the Contract, and the term “the Contract” shall in all such documents be construed accordingly.

“Contract Price” means the price payable to the Contractor as specified in the Agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the Contract.

“Day” means calendar day.

“Year” means 365 days.

“Month” means calendar month.

“Party” means the “Employer” or the “Contractor”, as the context requires.

“Employer” means the Assam Electricity Grid Corporation Limited (in short AEGCL) and its assignees.

The “*Contractor*” shall mean the tenderer / bidder whose tender/ bid has been accepted by the “Employer” and shall include the bidder’s legal representatives, successors and assignees.

The “Works” mean what the Contract requires the Contractor to construct, install, and turn over to the Employer, as defined in the under the Contract.

“Completion” means the fulfilment of the Works by the Contractor in accordance with the terms and conditions set forth in the Contract.

“Defect” is any part of the Works not completed in accordance with the Contract.

The “Specification” shall mean the “Employer’s Requirements”.

“Contractor” means the natural person, a company/firm, or a combination of these, whose bid to perform the Contract has been accepted by the Employer and is named as such in the Agreement, and includes the legal successors or permitted assigns of the Contractor.

1. General rules and directions for the guidance of contractors for execution of the works are as per clause of “ASEB Schedule-III, Form No-13 [Form F-2]
2. Information is to be furnished in the “Technical and commercial bid” as first page as given in Annexure I
3. Rate should be quoted in prescribed format as in Annexure II

NB:-

Above all, the tendering authority reserves the right to accept or reject the eligibility criteria as deemed fit.



**Dy General Manager
UAT&T Circle, AEGCL, Garmur, Jorhat**

DECLARATION

I/We hereby declare that I/We shall treat the tender documents and other records connected with the work as secret/confidential and shall not communicate information derived there from to any other person than to whom I am/are authorised to communicate the same or use the information to any manner prejudicial to the safety of the state.

Signature of the bidder

BILL OF QUANTITY

1. Installation of deep tube well

Sl. No.	Description of Work	Quantity	Unit
1	As per W/O No. AEGCL/DGM(C)/Tech-36/2010-11/933, dtd.10-08-2010. Transportation of drilling rig to the work site.....	1	Job
2	Present market rate:-Exploring of aquifer by using vertical echo system.	1	L.S
3	Approved rate of Bijulee Bhawan:-Boring of 300 mm dia bore well by rotary system including cost of fuel and carriage of compressor etc.....	300	Rm
4	Cl. No.5.3.12 (APWD schedule of building, sanitary and water supply schedule 2013-14):- Development of the tube well with compressor or by over pumping unit for 48 hours till sand free discharge is obtained....	1	Job
5	Cl. No.5.3.5 Supplying fitting & fixing pipes plain/level ended for casing, conforming to relevant I.S code of practice including supplying & fixing of tube well accessories, lowering of assembly pipes.....department. (ii) PVC pipes (Supreme/Prince/Fusion/SFMC brand) (iii) 200 mm dia..	300	Rm
6	(APWD schedule of building for electrical works 2013-14):-Supplying including installation, connection as approved by the dept. testing and commissioning of submersible pump set. Cl. No.39.7.7 Three phase Submersible motor pump set (Texmo / Crompton Greaves/ Aquatic/ CRI/ V-Guar suitable for 100 mm bore well and above. 7.5 HP STAGE 40/ 50 with MCB controlled Submersible motor pump set control panel.	1	Each
7	As per W/O No. AEGCL/AGM/W-8/Pt-V/2008/152, dtd.30-08-08 Supplying and fixing of 'U' clamp...	8	Each
8	Supplying and fixing clamp for 40mm dia column pipe 2 nos=1 set....	1	Set
9	(APWD schedule of building, sanitary & water supply schedule 2013-14) Cl. No.5.3.6:-Supplying fitting and fixing suction pipes plain/bevel ended conforming to relevant I.S code of practice, lowering of assembly pipes etc... (A) G.I pipe (III) 40 mm dia.	300	Rm
10	Cl. No.3.1.1 : Supplying fitting & fixing G.I pipes of following sizes with all necessary 'R' brand or similar approved G.I fittings.....(TATA medium)		
	(A) From boring point to the overhead reservoir. 40 mm dia.....	100	Rm
	25 mm dia.....	100	Rm
	15 mm dia.....	100	Rm
11	As per W/O No. AEGCL/DGM(C)/Tech-36/2010-11/933, dtd.10-08-2010. Complete earthing system for pump and the panel board.....	1	Job
12	(APWD schedule of building water supply & sanitary schedule 2013-14):-Supplying & fixing gun metal country pit valve..... 40 mm dia..... 15 mm dia.....	2 8	Each Each

2. Construction of RCC Rapid sand filters of capacity 4.00 sq.m. (1.60m x 1.25m x 2.40m)

Sl no.	Description of work	Quantity	Unit
1/1.1	Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (A) Up to a depth of 2.00m below the existing ground level.	27.814	Sqm
2/2.1.1	Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately). (a) In prop 1cement: 3 sand :6 coarse aggregate by volume	2.46	Sqm
3/4.1.4	Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (b) In proportion 1:4.	8.861	Sqm
4/1.3	Earth/ sand filling in plinth in layers not more than 150mm thick including necessary carriage, watering, ramming etc. complete as directed and specified including payment of land compensation, forest royalty, sales tax and other duties and taxes as may be necessary. (c) With river sand or silt (predominantly non plastic) by truck carriage including loading and unloading.	26.877	Sqm
5/18.1.1	Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete. (No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level) a) From Primary Producer: TATA/SAIL/Esser Steel/ Jindal steel/Shyam steel/RINL (ii)Super Ductile (SD) TMT reinforcement bars	11.009	Qtl
	b) Other ISI approved TMT reinforcement bar (SAI/BISCON/THERMAX) (For Assam Type Bldg., drain works,,retaining wall&boundary wall etc. .	0.584	Qtl
6/3.1.1	Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in: 3.1.1.1 Foundation, footings, bases of columns, pile cap, raft and mass concrete works etc (a) Using 38mm thick plank 3.1.1.3 Columns, Pillars, Posts & Strut (a) Square, Rectangular, polygonal in plan or any shape like Tee/L etc. having plane vertical face (i) Using 38mm thick plank	9.015	Sqm
		11.475	Sqm
	3.1.1.8 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (i) Using 38mm thick plank	73.2	Sqm

	3.1.1.5 Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like. (i) Using 38mm thick plank	40.718	Sqm
7/2.2. 2	Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (B) In super structure from plinth level up to 1st floor level. ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. b) M20 grade concrete or Prop. 1:1.5:3	3.276	Cum
	a) M15 grade concrete or Prop. 1:2:4	7.22	Cum
	i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc. b) M20 grade concrete or Prop. 1:1.5:3	1.421	Cum
8/6.2. 2	15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. A) On rough side b) In cement mortar 1:4	1.687	Cum
9/13.3	13.3.4 Providing two coats of Birla White Wall Care Putty (Water Resistant White Cement based putty for concrete/ mortar walls and ceiling both internal and external) after removing all loosely adhering material from the wall surface with the help of emery stone, putty blade or wire brush and moistening the wall with sufficient quantity of clean water as specified and directed by the department. (Total thickness of two coats is maximum 1.5mm) (i) Thickness = 1.5 mm	54.478	Sqm
10/13. 2.3	a) Applying one coat of cement primer of approved brand and manufacture on new wall surface after thoroughly brooming the surfaces free from mortar droppings and other foreign matter and including preparing the surface even and sand papered smooth.	54.478	Sqm
	b) Finishing wall with water proofing cement paint of approved brand and manufacture and of required shade on new wall surface (two coats) to give an even shade after thoroughly brooming the surfaces to remove all dirt and remains of loose powdered materials.	54.478	Sqm
11/10. 2	Providing, fitting and fixing M.S. grill of required pattern for windows/ clerestory windows/ openingwith M.S. flats at required spacing in frame all round, square or round M.S. bars with round headed bolts and nuts or screws.		

	II Ornamental grill (c) Fixed to Brickwork/P.C.C/R.C.C.	281.25	kg
12/19. 2	Providing plinth protection with bricks flat laid in cement mortar 1: 4 and finished with 15mm thick cement plaster in prop. 1:2 with a floating coat of neat cement finish.	12.42	Sqm

3. Internal connection between filter unit and reservoir

Sl. No.	Description of Work	Quantity	Unit
1/M.R	Supplying carrying and placing in position cast iron flanged spigot/Tail piece as per IS 1538 in line and level all complete as directed. (a) 150mm dia.	5	Each
2/M.R	Supplying carrying and placing in position cast iron Double flanged 90 degree bend as per IS 1538 in line and level all complete as directed. (a) 150mm dia.	4	Each
3/M.R	Supplying carrying and placing in position cast iron all flanged equal Tee piece as per IS 1538 in line and level all complete as directed. (a) 150mm dia.	2	Each
4/M.R	Supplying carrying and placing in position cast iron Double flanged Tapper as per IS 1538 in line and level all complete as directed. (a) 150mm dia.	2	Each
5/M.R	Supplying carrying and placing in position cast iron Double flanged sluice valve (with wheel & cap) of 150mm dia as per IS 780 having length over flanges 280mm and height of top of hand wheel from center to the water way 595mm and having weight 70 kg excluding wheel or cap in line and level all complete as directed. Waste Water line Back Wash line Filter to UGR	7	Each
6/M.R	Supplying carrying and placing in position cast iron Double flanged sluice valve (with wheel & cap) of 100mm dia as per IS having length over flanges 255 mm and height of top of hand wheel from center to the water way 470mm and having weight 43 kg excluding wheel or cap in line and level all complete as directed.	1	Each
7/M.R	Supplying and placing 6mm thick rubber insertion sheet in between th joints and fitting fixing with 5/8" x 4" long nuts and bolts with washer 2mm thick in each joints as directed and specified. Back Wash line Filter to UGR Nut Bolts (in Kg) Rubber Gasket (in Kg)	25 25	Kg Kg
8/M.R	Labour charge for making hole by chijelling on the RCC/Brick wall of the treatment plant according to the size of the collar including making good the wall by cement concreting and plastering etc after fitting of the CI collar etc to the required position as necessary as directed.	10	Each

9/M.R	Supplying, carrying and placing in position cast iron flanged pipes vertically cast Class B as per IS 1537 in line and level all complete as directed. (a) 150 mm dia. Filter to UGR Back Wash line	48	Nos.
10	Schedule item no.1.1 : - Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified. (A) Up to a depth of 2.00m below the existing ground level. (a) In ordinary soil	1.10	Cum
11	Schedule item no.4.1.1 : - Providing soling in foundation and under floor with stone/ best quality picked jhama brick, sand packed and laid to level and in panel after preparing the subgrade as directed including all labour and materials and if necessary dewatering, complete. (a).Brick on flat soling.	1.42	Sqm
12	Schedule item no.2.1.1 : - Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).(a) In prop. 1:3:6. For Supporting Post .	0.14	Cum
13	Schedule item no.4.1.4 : - Brick work in cement mortar with 1st class brick including racking out joints and curing complete as directed. (I) In Sub-structure upto plinth level including dewatering if necessary (c) In proportion 1:5.	1.32	Cum
14	Schedule item no.6.2.2 : - 10 mm thick Cement plaster in single coat on fair side of brick/concrete walls for interior plastering up to 1st floor level including arises or rounded angles not exceeding 80mm girth and finished even and smooth including curing complete as directed. b) In cement mortar 1:4 Back Wash line	12.60	Sqm
15	Labour charge Skilled Labour : - Unskilled Labour : -	20 20	

4. Providing UPVC under drainage system of rapid sand filter

Sl. No.	Description of Work	Quantity	Unit
1	Schedule item no.25.12 : - Providing precast R.C.C slab over drain ,septic tank etc. in prop. 1:2:4 reinforced with 10mm M.S. bar @ 150mm centre both ways tying with 20 gauge black annealed wire with necessary shuttering , curing etc. complete including fixing in position as directed a) 100mm thick slab. Manifold	1.44	Sqm

2	<p>Making and supplying of perforated laterals made of UPVC plumbing pipe 40mm dia 60 cm long by making hole of 5mm dia at a spacing of 8 cm center to center in two lines at 60 degree with the center of the pipe and threading at both ends and supplying fitting and fixing 40mm dia UPVC threaded end plug at one end. The other end in a 40mm dia UPVC threaded equal Tee and properly embed the same on the RCC cover slab fotted with a UPVC barrel nipple of 75mm long all complete as directed.</p>	20	Pair
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5. Construction of Aeration column (Cascade) type

Sl. No.	Description of Work	Quantity	Unit
1	<p>Schedule item no.1.1 : - Earthwork in excavation for foundation trenches of walls, retaining walls, footings of column, steps, septic tank etc. including refilling (return filling) the quantity as necessary after completion of work, breaking clods in return filling, dressing, watering and ramming etc. and removal of surplus earth with all lead and lifts as directed and specified in the following classification of soils including bailing out water where necessary as directed and specified.</p> <p>(A) Up to a depth of 2.00m below the existing ground level. (a) In ordinary soil Footing</p>	4.072	Cum
2	<p>Schedule item no.2.1.1 : - Plain cement concrete works with coarse aggregate of sizes 13mm to 32mm in foundation bed for footing steps, walls, brick works etc. as directed and specified including dewatering if necessary, and curing complete (shuttering where necessary shall be measured and paid separately).</p> <p>(a) In prop 1 cement: 3 sand :6 coarse aggregate by volume</p>	4.072	Cum
3	<p>Schedule item no.18.1.1 : - Supplying, fitting and fixing in position reinforcement bars conforming to relevant I.S. Code for R.C.C. work/ R.B. walling including straightening, cleaning, cutting and bending to proper shapes and length as per details, supplying and binding with 20G annealed black wire and placing in position with proper blocks, supports, chairs, spacers etc. complete.</p> <p>(No extra measurement for lap, hook, chair, anchor etc. will be entertained in the measurement as they are included in the rate) (Upto 1st floor level)</p> <p>a) From Primary Producer: TATA/SAIL/Essex Steel/ Jindal steel/Shyam steel/RINL (ii) Super Ductile (SD) TMT reinforcement bars Footing Jalli 10 mm dia TS @150 c/c bothways Top & Bottom</p>	3.12	Qtl
4	<p>Schedule item no.3.1.1 : - Providing form work of ordinary timber planking so as to give a rough finish including centering, shuttering, strutting and propping etc., height of propping and centering below supporting floor to ceiling not exceeding 4.0M and removal of the same for in-situ reinforced concrete and plain concrete work in:</p> <p>3.1.1.3 Columns, Pillars, Posts & Strut (b) Circular or curved in plan (Using 38mm thick plank)</p>	5.65	Sqm

	3.1.1.5 Flat Surfaces such as soffits of suspended floors, roofs, landings, cantilever slabs, chajjas, balconies and the like. (ii) Using 25mm thick plank	7.07	Sqm
	3.1.1.8 Vertical surface such as walls (any thickness), parapet walls, partitions, walls of septic tank, inspection pit and the like including attached pilasters, buttresses, plinth and string courses and the like.	11.88	Sqm
5	Schedule item no.2.3.2 : - Providing and laying plain/reinforced cement concrete works cement, coarse sand & 20mm down graded stone aggregate including dewatering if necessary, and curing complete but excluding cost of form work and reinforcement for reinforced cement concrete work (form work and reinforcement will be measured and paid separately) (I) Using Mixer Machine Foundation, footing, columns with base tie and plinth beam, pile cap, base slab, retaining walls, walls of septic tank, inspection pit and the like and other works not less than 100mm thick up to plinth level. b) M20 grade concrete or Prop. 1:1.5:3 Footing :	0.817	Cum
	(B) In super structure from plinth level up to 1st floor level. i) Walls (thickness not less than 100mm) including attached pillasters, buttresses, plinth and string course etc. N) Without using admixture, plasticiser b) M20 grade concrete or Prop. 1:1.5:3	0.547	Cum
	ii) Columns, pillars, posts, struts, suspended floor, roof, landing, shelf and support, balcony, lintel, sill band, beam, girder, bressumer, cantilever, staircase (except spiral staircase and landing) including preparing the top surface and finishing of nosing. N) Without using admixture, plasticiser b) M20 grade concrete or Prop. 1:1.5:3 Slab	1.545	Cum
6	Schedule item no.4.1.4 : - Brick work in cement mortar with 1st class brick including racking out joints and curing		
	complete as directed. (II) In superstructure above plinth level up to 1st floor level. (a) In proportion 1:3.(1 cement:3 sand) Step :	0.565	Cum
7	Schedule item no.6.2.2 : - 15 mm thick Cement plaster in single coat on single or half brick wall for interior plastering up to 1st floor level including arises, internal rounded angles, not exceeding 80mm girth and finished even and smooth including curing complete as directed. B) On fair side a) In cement mortar 1:3 Column	30.57	Cum
8	SANITARY WORKS : Schedule item no.3.1.1 : - Supplying fitting and fixing G.I. Pipes of following sizes, with all necessary 'R' brand or similar approved G.I. Fittings such as bend, tee, elbow, reducer, nipple, plug, long screw fitting, H.W. clamps etc.complete at all levels including below G.L. as directed and specified. 100 mm dia (3.00 m long) Raw water line inside the column	32	Rm

9	Schedule item no.4.2.1 : - Renewing G.I.socket ZOLOTO-m brand, heavy 50 mm dia	12	Each
10	Schedule item no.4.4.1 : - Renewing G.I. Tee (heavy quality) as specified & directed. (f) 50 mm dia.	6	Each
11	Schedule item no.4.5.1 : - Renewing G.I. Elbow (heavy quality) as specified and directed. (f) 50 mm dia.	5	Each

6. Supplying and charging of filter media

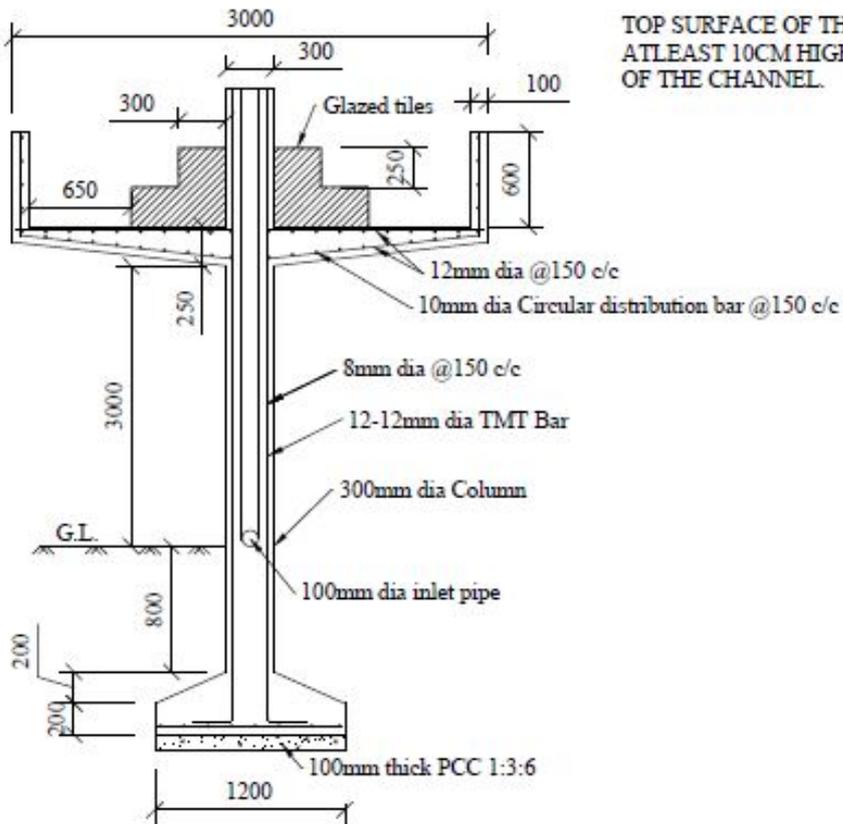
Sl. No.	Description of Work	Quantity	Unit
1/M.R	Supplying filter gravel of uniform size and shape as per IS 8419 (part-I) all complete as directed.	30	cft
2/M.R	Supply of filter sand of different sizes as per IS 1419 (part-I) all complete as directed.	60	cft
3/M.R	Unskilled casual labour for loading the filter and for spreading it uniformly.	3	Mandays

Final BOQ against which rates should be quoted

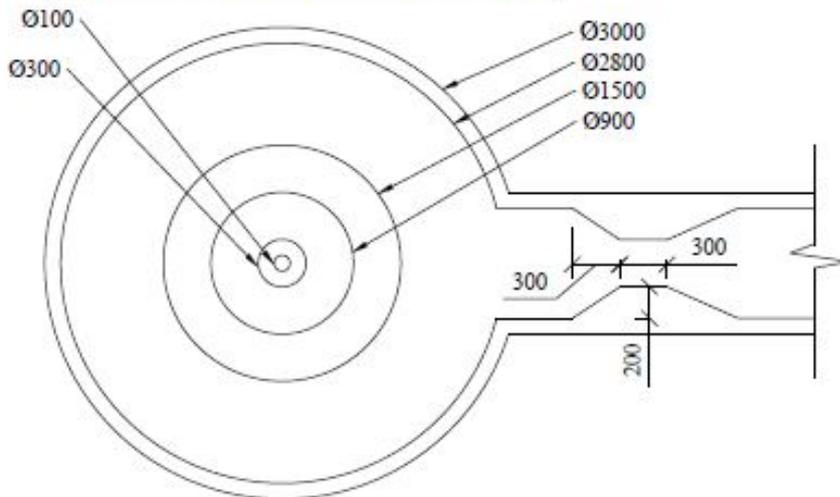
Sl No	Description of Item	Qty	Unit	Rate (Rs)	Amount (Rs)
1	Installation of Deep tube well	1	Nos		
2	Construction of RCC Rapid sand filters of capacity 4.00 sq.m. (1.60m x 1.25m x 2.40m)	1	Nos		
3	Internal connection between filter unit and reservoir	1	Nos		
4	Providing UPVC under drainage system of rapid sand filter	1	Nos		
5	Construction of Aeration column (Cascade) type	1	Nos		
6	Supplying and charging of filter media	1	Nos		
Total value of Work in Rs					



Dy General Manager
UAT&T Circle, AEGCL, Garmur, Jorhat

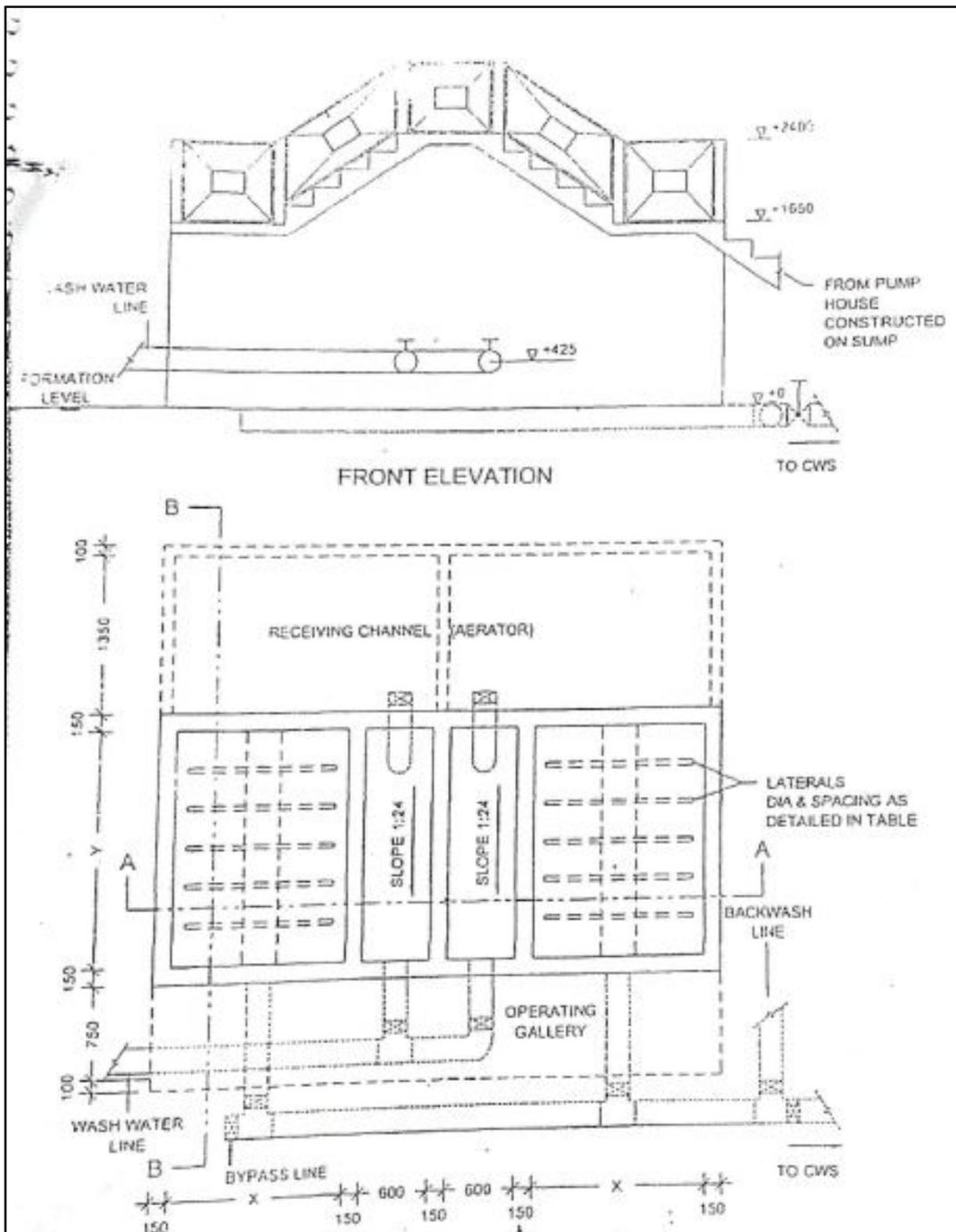


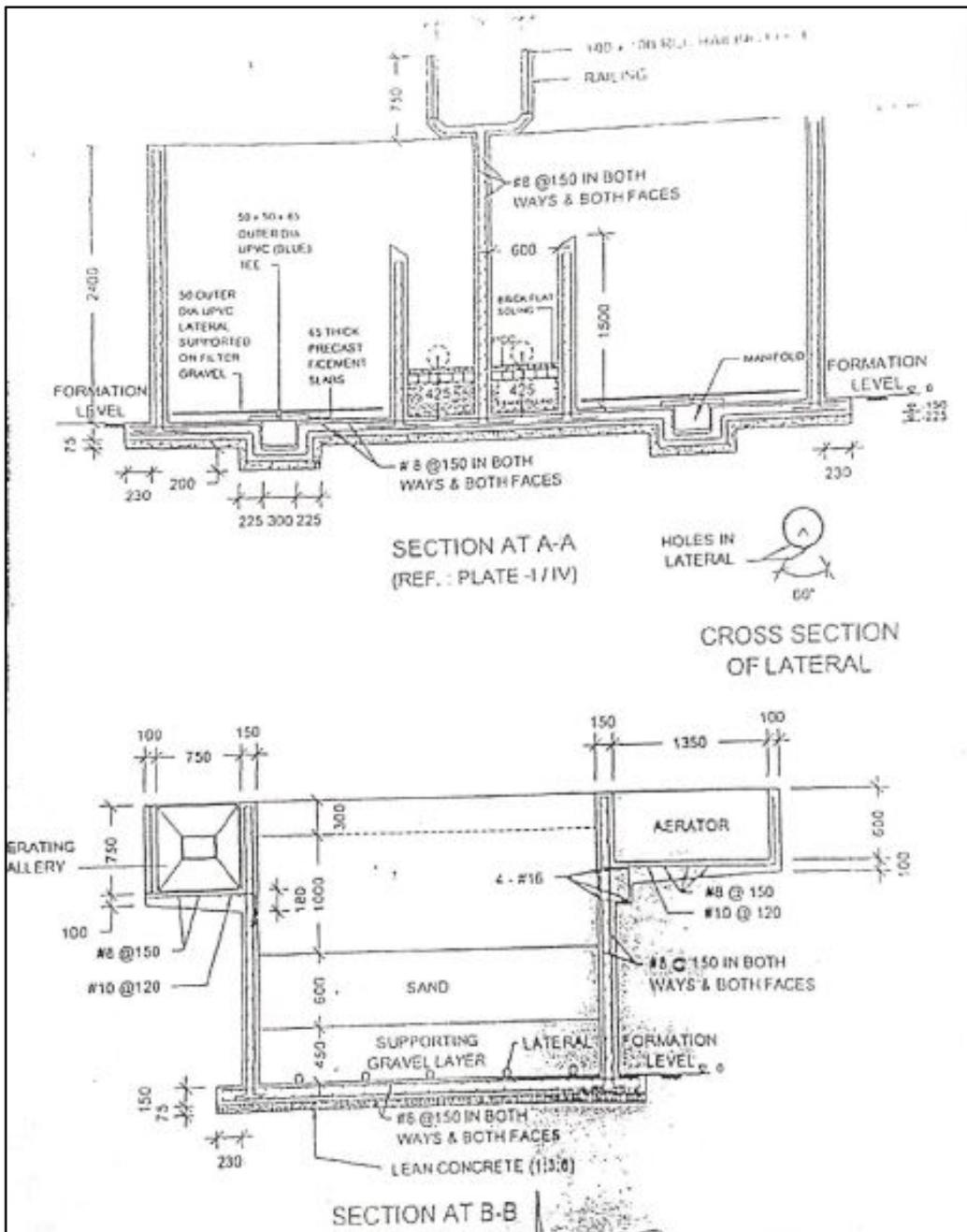
SECTIONAL ELEVATION CASCADE AERATION

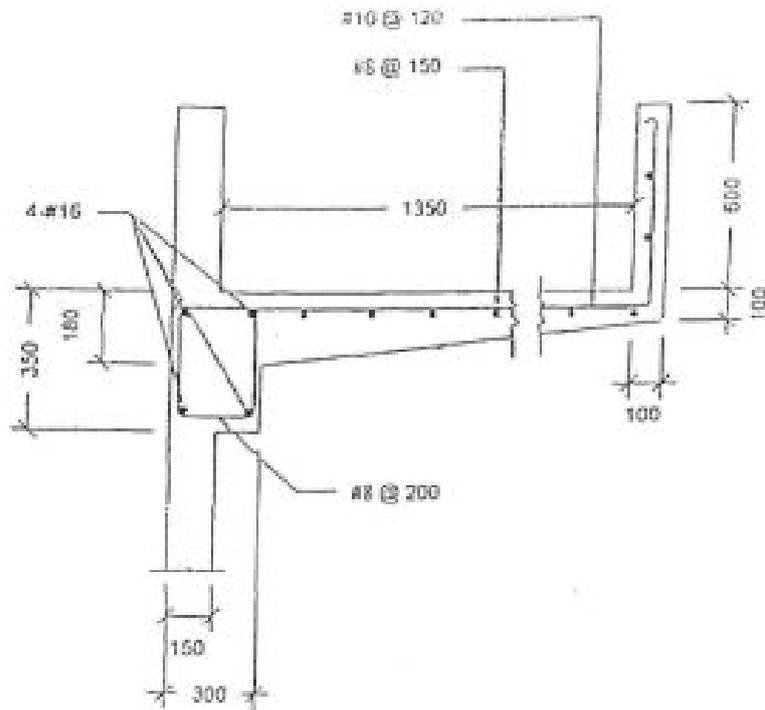


PLAN

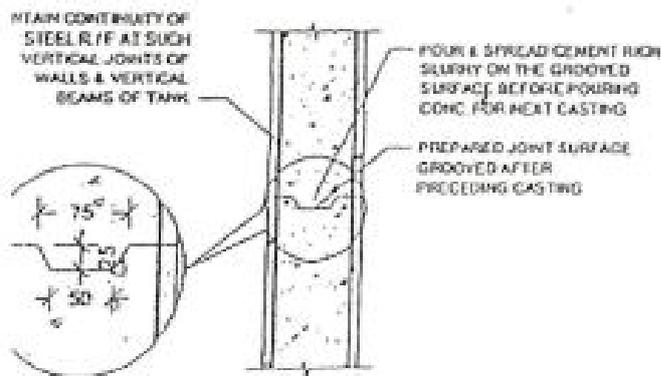
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(NOT IN SCALE)



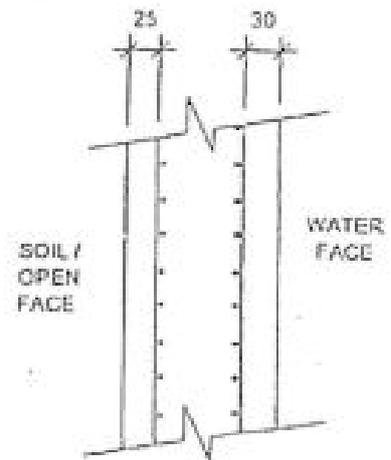




R/F DETAILS IN AERATOR



CROSS SECTION OF TYPICAL VERTICAL CONSTRUCTION JOINT



WALL SECTION SHOWING COVER

Appendix-1

COVERING LETTER (ON THE BIDDERS LETTER HEAD)

To,
The Dy. General Manager,
UAT&T Circle, AEGCL,
Garmur, Jorhat-07

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)	Employees Provident Fund	:-
f)	Employees State Insurance certificate	:-
g)	Labour License registration	:-
h)	Income Tax Clearance Certificate	:-
i)	Professional Tax Registration	:-
j)	Date of Establishment/ Incorporation	:-
k)	Postal Address	:-
	House No.	:-
	Lane	:-
	Street	:-
	Town/Village	:-
	Post Office	:-
	P.S.	:-
	District	:-
	Pin code	:-
l)	Telephone Number	:-
	Mobile No.	:-
	E-Mail Address	:-
	Website	:-
m)	Name(s) of the Owners / Directors/Partners	:-
n)	Name of the Banker with Address and Telephone Number	:-
o)	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:-

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 2 (two) nos. of work order along with Performance certificate for similar nature of work executed within last 5 (five) years at any Govt. Deptt., PSU etc. of value not less than Rs..... ..

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)					
d)					

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 5 (five) years. The average of best 3 (three) years out of 5 (five) years will be considered for average annual turnover.

1. Financial Qualifications:
 - a) Minimum average annual turnover of Rs..... calculated as total certified payments received for contracts in progress or completed.
 - b) Minimum cash flow of Rs..... 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

Appendix-5

Price Bid

The rates quoted should be inclusive of GST and should be firm and legible. No overwriting will be allowed.

The rates should be quoted against each item specified in the BOQ.