

**Bharat Heavy Electricals Limited**  
**High Pressure Boiler Plant**  
**Tiruchirappalli – 620 014. India**  
**Civil Engineering Department (Township)**

**TENDER DOCUMENT (PRICE BID)**

**Name of work** : Providing Water Supply Line , Sewer Line,  
Storm Water Drain and Internal Roads in  
the factory complex of PPPU - BHEL near  
Thirumayam in Pudukkottai (Dt)  
(Tamilnadu).

**Value of work** : Rs. 516 Lakh

**Tender Notice No.** : Township 06 / 10

**Tender Schedule No.** : T 26 / 10

**Period of Contract** : 10 Months

**Issued to** :



BHARAT HEAVY ELECTRICALS LIMITED  
(A Government of India Undertaking )  
Unit : TIRUVERUMBUR, BOILER PROJECT, P.O.  
TIRUCHIRAPALLI - 620 014.

**CIVIL ENGINEERING DEPARTMENT**

**NOTICE INVITING TENDER**

01. Name of Work : **Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**
02. Estimated Cost : **Rs. 516 Lakh**
03. Earnest Money Deposit : **Rs.2,00,000/-**
04. Completion Time : **TEN ( 10 ) Months**  
( From the date of commencement of the work which will be reckoned from the date of handing over of the site to the Contractor )
05. Cost of Tender Document : **Rs.750/-** ( including Sales Tax )  
This amount will not be refunded under any circumstances
06. Last Date for Receipt of Tenders : **09.30 Hrs. on 14.07.2010**
07. Date of Tender Opening : **10.00 Hrs. on 14.07.2010**
08. Maintenance Period : **6 (Six Months from the date of actual completion of the entire work and handing over to Bharat Heavy Electricals Limited)**

Tender document contains **222** pages in Qualification Bid and **38** pages in Price Bid including Bill of Quantities, Drawing etc.

Issued to Messrs. / Thiru : .....

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**ISSUING OFFICER**

**CONTRACTOR**

**2**

**ACCEPTING OFFICER**

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI – 620 014**

**CIVIL ENGINEERING DEPARTMENT (TOWNSHIP)**

**PREAMBLE**

01. The scope of work includes **Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**
02. The tender value excludes cost of cement, reinforcement steel , structural steel & Cast Iron pipes , Specials which will be supplied by BHEL at Stores at free of cost. Other free issue materials by BHEL are indicated in Schedule B of the Price bid document.
03. Time is the essence of the contract. Being a time bound project with capital expenditure, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **10 months**, the services and other works shall be completed progressively and handed over as per agreed split up schedule.
04. The tenderers are advised to visit the plant area near Thirumayam in Pudukkottai (Dt.) and get themselves acquainted with the site conditions before submitting the offer
05. **The following eligibility criteria shall be complied to fulfill the Qualification Bid:-**
  - a) The tenderer should have EPF, PAN, Service Tax New Registration No., proof of having submitted IT return for the last three years, Profit & Loss account and balance sheet certified by the auditor.
  - b) Average annual financial turnover of Civil construction in the last three years should be 30% value of respective work .
  - c) During last seven years should have successfully completed works either
    - i) Three similar works each not less than 40% value of respective work .  
or
    - ii) Two similar works each not less than 50% value of respective work.  
or
    - iii) One similar work not less than 80% value of respective work.
  - d) Latest Solvency (obtained within 6 months) from the Nationalised / Scheduled bank shall be at least for 40% value of respective work .
06. The works executed in the own name of the tenderer only will be considered for eligibility criteria. The nominated committee may also visit the works executed by the contractor to ascertain the nature of work before qualifying.
07. BHEL reserves its right to reject the tender on account of unsatisfactory past performance by the present tenderer in another project / sister unit awarded under different enquiry.
08. Dissimilar / irrelevant works will not be considered for eligibility criteria.

**CONTRACTOR**

3

**ACCEPTING OFFICER**

09. Documentary evidences (Xerox copies - attested) for turnover, works experience, P.F, & Sales Tax registration etc., all as indicated & required in the tender document should be furnished without which it will not be taken into account.
10. The value of turnover and the value of similar works mentioned above excludes cost of cement, reinforcement steel ,structural steel and Cast Iron pipes , Specials. However if the turnover value furnished by the tenderer includes the above materials, then the tenderer has to furnish the cost of the same separately. If it is not furnished, the materials cost will be presumed as follows: -
- |   |        |
|---|--------|
| Civil & structural works combined         | - 50 % |
| Civil works alone                         | - 35 % |
| Structural works including cloaking items | - 70 % |
| Cast Iron pipe and specials               | - 85 % |
| Other minor maintenance works             | - 20 % |
11. The norms for qualification with prescribed score are attached in the Qualification Bid Document. Evaluation will be done accordingly. Minimum score required for qualification is 60.
12. For the agencies who had already been qualified and enlisted by BHEL under various money category. Tender document for the eligible value of work can be obtained after paying the cost of tender document. Already enlisted and eligible agencies may submit the tender document duly signed in all pages and no Technical evaluation is applicable for item.
13. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (twenty percentage).
14. Quoted rate shall be firm throughout the contract period of **10 months** and no cost escalation is allowed on any account.
15. The item rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. **However if the service tax is applicable for this contract work and free issue materials, the same will be reimbursed on production of valid document proof for having paid service tax by the contractor.**
16. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.
17. The contractor should submit the mix design for RCC for different mix of concrete for different grade of cement at his cost through reputed institution.
18. The contractor should use only weigh batch for all reinforced cement concrete works (controlled concrete). The tenderer is advised to install concrete mini batching plant at site considering the quantum of concrete work involved.
19. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of BHEL. In such case, it is to be carried out in the presence of BHEL officials or their authorized persons.

20. The work shall be carried out as per drawings released then and there, Civil Engineering Department Work & Safety procedure, AWS / BIS specifications, standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the bill of quantities provided in the Price Bid. **Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided in the Price Bid. (From page No. 16 to 28).**
21. For any item of work not covered in Bill of Quantities, the rate will be arrived at based on the conditions given in BHEL General Conditions of Contract in force.
22. **The contractor has to furnish the security deposit, as per Clause 13 of Tender Notice, attached in the Price Bid if the work is awarded. Also it is to be noted that after award of work the contractor has to furnish 50 % of security deposit before the commencement of work.**
23. The contractor should bring the construction earth moving machineries like Poclain, Paver, Road Roller, JCB etc., as and when required for the work without any delay. Also required number of the following tools & Plants / instruments shall be made available always at site for the works.
- a. Precise Leveling instruments and theodolite.
  - b. Bitumen Paver finisher
  - c. Hot mix Plant
  - d. Spreaders
  - e. Earth rammers
  - f. Vibratory road roller
  - g. Full load mixture machine
  - h. Petrol / Kerosene driven vibrator/ mechanical vibrator
  - i. Cube moulds
  - j. Inter carting vehicle (tractor, hand trolley etc)
  - k. Mobile / Hydraulic crane
  - l. Welding machine etc.
24. The contractor has to arrange sufficient number of lorries to collect & transport the surplus earth, construction debris generated, etc. at site. Otherwise BHEL would clear the debris at the contractor's risk and cost.
25. The contractor has to execute any item of work irrespective of the quantity available in the tender without any reservation till the contract value does not vary more than 20%.
26. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot. The contract should arrange for surveying construction site at his own cost.
27. Statement of completed works with detailed measurements along with material reconciliation statements shall be submitted by the contractor in the last week of every month for processing bill.
28. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
29. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
30. The contractor shall strictly adhere to various labour laws in force.

31. The contractor has to submit the list of machineries to be deployed exclusively for this work, organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
32. The contractor should submit the programme for the completion of work and the list of machineries and site personnel to be deployed for the work along with tender.
33. The contractor should establish his own site office, for which vacant land will be allotted on specific request for which the rent will not be collected. No land will be provided towards labour colony.
34. The contractor has to submit the organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
35. The contractor should establish his own site office, fabrication yard, handling facility, storage facility to stock about 100 MT of cement etc., for which vacant land will be allotted on specific request for which the rent will not be collected.
36. The contractor is required to carry out construction activities as directed by the department officials. It is required to engage certain minimum strength of staff for effective supervision of works as indicated below:

Site in-charge / Construction Manager	-	1 No.
Planning Engineer and coordinator	-	1 No.
Qualified Surveyor	-	1 No.
Civil Engineer (Graduate in Civil Engineering)	-	4 Nos.
Supervisor/Engineer (Diploma Holder)	-	4 Nos.

In addition to the above, Quantity surveyors have to be engaged to prepare measurements and submit the bills.

37. Adequate number of Quality Engineer and qualified Safety Engineer should be deployed at site. Experienced Engineers / Supervisors are to be engaged in Railway and water supply works.
38. To safeguard the persons working at underground etc., sufficient number of Industrial Safety PPE shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
39. The tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, Technically experienced, etc. so as to execute the works simultaneously in all areas of work. The Technical persons with experience shall have to produce valid certificate for verification.
40. Work experienced persons shall be engaged for water supply, sewerage system work, Road works and Storm water Drain etc.

41. The contractor shall follow norms of BHEL security system for movement of men & materials within the complex.
42. Exclusive Stores personnel should be engaged who would co ordinate with department official for clearance and collection of BHEL supplied materials required for works.
43. Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of Factory Complex.
44. The tenderer shall carry out health performance test at his cost for all the workmen engaged in the work through a registered medical practitioner and produce certificate on demand.
45. It shall be the responsibility of the contractor to see that the workmen do not utilize the departmental canteen facilities. Contractor has to make his own arrangements to provide refreshment for the workmen.
46. All the works shall be executed as per the standard specifications as provided in TNBP / BIS.
47. All the materials to be used in the work and the nature of work shall conform to the respective TNBP & BIS and National Building Organisation, Standard Specifications forming part of "ALL INDIA STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-charge before actual incorporation in the work.
48. The contractor should maintain proper accounts for cement, reinforcement steel and structural steel sections and other materials if any supplied by this dispatching and these should be available at the site of work for verification and check by the Officials of this Organisation at any time.
49. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work. All the structural works including fabrication, erection etc., are subjected to inspection and clearance by Third Party Agency fixed by BHEL.
50. The contractor should use only the materials of brand and quality as approved by BHEL.
51. All materials and consumables brought by the contractor should have manufacturer's certificate.
52. All tools and plants including jack hammer with silencer & bits, rock drilling machine, etc., required for all the works covered under this contract will have to be brought by the contractor.
53. All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure like railway lines if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department.
54. Contractor's materials and tools & plants shall have to be brought inside factory with proper invoice / voucher and make necessary entry in the security gate. They should maintain proper record for tools and plants, materials, etc., brought inside the factory complex.
55. The contractor should extend full co-operation with the third party agencies engaged, if any by BHEL to adhere the Quality Control Procedures ensuring quality.

56. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.
57. With regard to specifications not covered by the General and Special Conditions of Contract, those contained in the Tamil Nadu Building Practice Standard Specifications or other specifications approved by Bharat Heavy Electricals Limited, shall apply.
58. The Contractor will have to make his own arrangements for water without any extra claims.
59. On the written request from the contractor **Electrical energy required for the work may be given by this organization at any one point at the site of work at chargeable basis.** The approximate power requirement shall have to be indicated while submitting the tender. BHEL does not accept any liability whatsoever for non-supply, delay in supply or failure of supply of electrical energy. Contractor shall ensure that there is no wastage of electrical energy otherwise supply is liable to be stopped at contractor's risk and cost. The contractor shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution.
60. The contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jack hammer with silencer
61. Purchase preference policy if applicable will be extended to CPSE bidders subject to other terms & conditions as provided in the office memorandum issued by DPE. The tenderer has to furnish copy of Government circular for claiming purchase preference.
62. Tenderers are requested to furnish the duly filled in E format attached as separate sheet along with a cancelled cheque leaf to accept Electronic fund transfer / R T G S transfer for any payment from BHEL, Trichy.
63. The main work order may further be split in too few sub work orders. The process of billing, material tallying and submission of completion reports will be according to the individual sub work orders.
64. Bank Guarantee format can be obtained after award of work in case of successful tenderer.
65. No advance / mobilization advance will be given.
66. LD / Penalty clause is applicable as per General Conditions of Contract in force.
67. BHEL reserves its right to accept / reject any or all the tenders without assigning any reasons.
68. Also BHEL reserves its right to finalize the contract through reverse auction for which only qualified tenderers will be provided with necessary documents containing reverse auction rules, terms and conditions for this purpose.

## INSTRUCTIONS TO TENDERERS

1. The tender is open to all Contractors. The Contractors not borne on the approved list of contractors of this Organisation must submit the following testimonials simultaneously with their tenders.
  - i. A Certificate to establish that the tenderer is an independent contractor working on his own
  - ii. At least two certificates from responsible Officers of Government of Firms of repute, regarding the tenderer's capacity to undertake and carryout the work tendered for or similar work satisfactorily.

### NOTE :

- a) Copies of testimonials unless attested by a Gazetted Officer will not be accepted
- b) Non – Submission of the above testimonials simultaneously with the tenders may result in the tender being rejected
2. The tenders should be accompanied by a list of contracts already held by the contractor at the time of submitting the tender and giving the following particulars
  - a) Value of each contract
  - b) The balance value of work to be done on the same
3. The tenderer is advised to obtain the tender documents in person or by a messenger duly authorized to do so. The BHARAT HEAVY ELECTRICALS LIMITED will not under any circumstances accept responsibility for the non – receipt of delay in the receipt of the tender documents by the tender.
4. Rate for each item of the tender schedule should be quoted in FIGURES and in WORDS. In case of any difference in the rates quoted in figures and in words, the lower of the two rates will be taken as the tendered rate. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
5. Rate quoted shall include all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax and any other taxes leviable under the State or Central Government rules. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect. **However if the service tax is applicable for this contract work including free issue materials, the same will be reimbursed on submission of the documentary evidence for having paid service tax by the tenderer.**
6. Should a tender find discrepancies or omissions in the drawings or any of the tender documents or should be in doubt as to their meaning, he should at once address the authority inviting the tender for clarification. Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently by discovered and shall make no subsequent claim on account thereof.

7. Tenders submitted by post should be sent "Registered Post with Acknowledgement due". These should be posted with due allowance for any delay in postal delivery. Tenders received after the due date and time of opening, tenders are liable to be rejected.
8. Where the tender called for covers only the building work and excludes internal services such as sanitary and water supply installations, electrification etc., the building contractor will have to leave pockets, holes, etc., as required for other works and will have to phase his work to ensure smooth progress of the work of the other agencies also as directed by the Engineer – in – charge.
9. Where the tender schedule contains special items of work such special floor finishes, foam concrete for insulation, special water proofing treatment to roofs etc., it will be entirely at the discretion of the Project Authorities to allot these items of work to other contractors specialized in these works. In such cases, the main building Contractor will have to tender all necessary co-operation to the agencies involved so as to ensure the smooth progress of all work.
10. The contractor's responsibility under this contract shall commence from the date of receipt of the LOI by the tenderer. The scheduled period of completion for this work will be as mentioned in page No. 02, and the Contractor will have to plan his work accordingly.
11. Generally, the maintenance period for any work under BHEL Organisation will be SIX (6) MONTHS .

**12. Earnest Money Deposit:**

Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. Shall also be furnished in the form of Pay Order or Demand Draft in favour of BHEL, EMD in any other form will not be accepted. The rate of earnest money deposit shall be as under:

Works costing up to Rs. 2 lakhs	NIL
Works costing more than Rs.2 lakh and up to Rs. 5 lakhs	Rs. 10,000/-
Works costing more than Rs.5 lakhs and up to Rs.10 lakhs	Rs. 20,000/-
Works costing more than Rs.10 lakhs and up to Rs.20 lakhs	Rs. 40,000/-
Works costing more than Rs.20 lakhs and up to Rs.30 lakhs	Rs. 60,000/-
Works costing more than Rs.30 lakhs and up to Rs.50 lakhs	Rs. 1,00,000/-
Works costing more than Rs.50 lakhs and up to Rs.100 lakhs	Rs. 1,50,000/-
Works costing more than Rs.100 lakhs	Rs. 2,00,000/-

One time EMD will also be Rs.2 Lakh.

EMD by the Tenderer will be forfeited if,

- a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates.
- c) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.
- c) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.
- d) EMD shall not carry any interest.

13. Should a tenderer or a contractor on the list of approved Contractors have a relative, or in the case of a firm or Company of contractors any of its share holders or shareholder's relative, employed in a gazetted capacity in the Engineering Department of the Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender, may be disqualified or if such fact subsequently comes to light, the contract may be rescinded in accordance with the relevant provisions in the General Conditions of Contract.
14. If tenderer expires after the submission of his tender or after the acceptance of his tender the BHEL may, at their discretion, cancels such tender. If a partner of a firm expires after submission of tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character.
15. The Bharat Heavy Electricals Limited will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however dispatch such power of attorney and changes after obtaining proper legal advice the cost of which will be chargeable to the contract concerned.
16. If the tenderer deliberately gives wrong information in his tender or creates conditions favourable for the acceptance of his tender, the Bharat heavy Electricals Limited, reserves the right to reject such tender at any stage. Also BHEL reserves its right to finalize the contract through reverse auction for which only qualified tenderers will be provided with necessary documents containing reverse auction rules, terms and conditions for this purpose.
17. Words importing the singular number shall also be deemed to include the plural number and vice versa where the context so requires.
18. The expenses for completing and stamping the agreement shall be paid by the contractor.
19. The General and special conditions are complementary to each other and where they are conflict the Special Conditions shall prevail. In regard to matters not covered by the General and Special Conditions of Contract, those contained in the Tamil Nadu Building Practice Standard Specifications or other specifications approved by the Bharat Heavy Limited, Shall apply.
20. Tenderers shall not increase their quoted rate in case the Bharat Heavy Electricals Limited, negotiates for negotiation for reduction of rate. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rate originally quoted shall be binding on the tenderes for a period of three months from the date of opening of tenders.
21. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection
22. All contractors will have to produce copy of Income tax Return for the last three years along with their tenders. Those Contractors whose income is not taxable will be required to give an affidavit of their income on the prescribed form.

## TENDER NOTICE

**NAME OF WORK :** Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).

### ESTIMATED COST : Rs. 516 Lakh

1. SEALED TENDERS for the above noted work are hereby invited from contractor experienced in works of similar kind and magnitude. Tenders will be received by SR.DY.GENERAL MANAGER / CIVIL / TOWNSHIP Bharat Heavy Electricals Limited, Tiruchirappalli – 620 014. up to **09.30 Hrs** on **14.07.2010** and will be opened on the same day at **10.00** hrs. at the Office of the SR.DY. GENERAL MANAGER / CIVIL / TOWNSHIP in the presence of such of those tenderers. Or their agents who may choose to attend.
2. TENDER FORMS and other particulars regarding the proposed work can be obtained on any working day from 8.00 A.M. to 4.30 P.M. up to **10.07.2010** on payment of the prescribed sum of **Rs.750/-** per set ( including Sales Tax ) Amount nor refundable.
3. TENDERS must be submitted in sealed covers and should be addressed to **DY.MANAGER/CIVIL/PLANNING (TOWNSHIP)** with full name and address of the tenderer and the name of work being noted on the cover
4. All entries in the tender documents should be in one ink. Erasers and overwritings are not permitted. All cancellations and insertions should be duly signed by the tenderer concerned.
5. TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attached there to before submitting their tender.
6. UNIT rate should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule. These rates shall be for the finished work in site. Amount of each item and the total page by page and also the grand total amount of the whole contract should be filled in by the tenderers. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
7. QUANTITIES shown in the attached schedule are only approximate and are liable to variation without entitling the contractors to any variation in the Quoted rates till the total value of the Contract does not vary by more than 20% (twenty percent)
8. In quoting their rates, the tenderers are advised to take account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.
9. Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevalent conditions position of materials and labour, General and Special Conditions of Contract. Instructions to tenders, drawings and Specifications and all other documents which form part of the Agreements to be entered into.

**CONTRACTOR**

12

**ACCEPTING OFFICER**

10. Quoted rate shall be firm throughout the contract period of **10 months** and no cost escalation is allowed on any account.
11. In the event of tender being submitted by firm the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned in the latter case a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.
12. Every tender must be accompanied with EMD for the amount as specified in Page No. 02 in any of the form mentioned in Para 12 of the "Instruction to Tenderers". This Earnest Money will be refunded to the unsuccessful tenderers within fifteen days of finalisation of the award of work. In case of the successful tenderer, the Earnest Money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with Clause 16 of the General Conditions of Contract

NOTE: Cheques, Currency Notes and Money Orders will not be accepted in lieu of the deposit receipt referred to above

### 13. Security Deposit

- 13.1 Security Deposit should be collected from the successful tenderer.  
The rate of Security Deposit will be as below:

Up to Rs. 10 lakhs	10%
Above Rs. 10 lakhs up to Rs.50 lakhs	Rs.1 lakh + 7.5% of the amount exceeding Rs. 10 lakhs.
Above Rs. 50 lakhs	Rs.4 lakhs + 5% of the amount exceeding Rs. 50 lakhs.

The security Deposit should be collected before start of the work from the contractor.

- 13.2 Security Deposit may be furnished in any one of the following forms

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL.
- iii) Local cheques of scheduled banks, subject to realization.
- iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc.  
  
(Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL.
- vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act . The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.
- vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.

- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

**NOTE:** Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

- 14. Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para 13 above within Seven days of the date of the order directing him to do so the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.
- 15. After tender opening if tenderer revokes his tender or increases his earlier quoted percentage rate or after acceptance of his tender does not commence the work in accordance with the instruction of the Engineer-in-charge, the Earnest Money deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
- 16. The Bharat Heavy Electricals Limited reserved the right to reject any or all the received or accept any tender or part thereof without assigning any reason thereof. In the case acceptance of part of tender, time for completion may also be reduced to the extent considered appropriate by the Accepting Authority. Also BHEL reserves its right to finalize the contract through reverse auction for which only qualified tenderers will be provided with necessary documents containing reverse auction rules, terms and conditions for this purpose.
- 17. Conditional and Un witnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.
- 18. Tenders not submitted on the prescribed form are liable to be rejected
- 19. The work must be completed within a period as mentioned in page No.02.
- 20. The Chairman / General Manger / Deputy General Manager / Deputy Manager / Senior Engineer shall be Accepting Officer, herein after referred to as such for the purpose of this contract.
- 21. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.
- 22. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for 'Health & Safety of Contract Labourer' in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

**ISSUING OFFICER**

## SHEDULE 'A'

### LIST OF WORKS AND PRICES

**NAME OF WORK:** Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES

Sl.No.	Description of work / supplied	Total amount of work / supplies (in figures and words)		Period of contract
		Rs.	Ps.	
1.	Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).	5,16,00,000/- (Rupees Five Crore and sixteen lakh only)		10 MONTHS

### BILL OF QUANTITIES

Sl. No.	Appx. Qty.	Description of work	TNBP No.	Rate (Both in Unit fig & Words)	Amount	
					Rs.	Ps.

AS PER SEPARATE SHEETS ATTACHED CONTAINING 13 PAGES

FROM SERIAL No. 16 to 28

CONTRACTOR

15

ACCEPTING OFFICER

**BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI- 620 014**

**BILL OF QUANTITIES**

**NAME OF WORK: Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**

<b>Sl. No.</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate (both in figures and in words)</b>	<b>Unit</b>	<b>Amount</b>
1		Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. <u>Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc.</u>			
a	20000	All kinds of soil except rock		CUM	
b	3500	Ordinary rock		CUM	
c	400	Hard rock (requiring blasting)		CUM	

**CONTRACTOR**

16

**ACCEPTING OFFICER**

<b>Sl. No.</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate (both in figures and in words)</b>	<b>Unit</b>	<b>Amount</b>
d	200	Hard rock (blasting prohibited)		CUM	
2		Earth work for surface excavation (exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed.			
a	8400	All kinds of soil except rock		CUM	
3	2000	Surface dressing of the ground in all kinds of soil (excluding rock) including removing vegetation and inequalities not exceeding 15cm deep and disposal of rubbish, lead upto 50 m and lift upto 1.5 m.		SQM	
4		Extra for every additional lift of 1.5 metre or part thereof in :			
a	1450	All kinds of soil excluding rock.		CUM	
b	700	Ordinary or hard rock		CUM	

**CONTRACTOR**

17

**ACCEPTING OFFICER**

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
5	15200	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift up to 1.5 m etc. complete.		CUM	
6		Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements.			
a	11500	0-1 km		CUM	
7	8000	Providing laying compacting wet mix macadam ( <b>WMM</b> ) with clean, crushed , graded aggregate and granular material and finished in accordance with the requirements of the specifications (MORTH 406) and thickness as per approved plans or as directed by the Engineer In - charge		CUM	

CONTRACTOR

18

ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
8	2667	<p>Providing 50 mm consolidated thick bituminous macadam over bituminous surface using IRC grade metal of 0.35 CUM of 25 to 11.20 mm, 0.21 CUM of 11.20 to 6 mm &amp; 0.14 CUM of 6 mm and below for 10 SQM with 40 kg of bitumen for premixing, including handling charges at CMP site, labour for loading the bitumen in bitumen tank and metal to feed units, labour for attending to paver site, heating &amp; mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix by tipper to paver site, spreading the mix in required temperature &amp; thickness with mechanical paver to the specified grade and cross section, consolidation by power roller to get the required density, including hire charges for CMP, paver finisher, tipper, power roller, bitumen boiler, all other tools and plants, incidental charges such as barricading, provision of danger lights etc., complete.</p> <p>Rate includes cost of metal, bitumen, hire and running charges for tools and plants and all other incidentals etc., complete. Payment will be made on pre level &amp; post level measurements.</p>		CUM	
9		<p>Providing and applying tack coat including heating the bitumen in boiler, labour for preparing the surface, spraying the bitumen as tack coat, hire &amp; running charges for all tools &amp; plants &amp; all other incidentals etc. complete.</p>			

CONTRACTOR

19

ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
a	26667	Over bituminous surface using 5 K.G of bitumen (grade 80/100) per 10 SQM area.		SQM	
b	26667	Over WBM surface using 10 K.G of bitumen (grade 80/100) per 10 SQM area.		SQM	
10	1067	<p>Providing semi dense carpet of 40 mm consolidated thickness using machine crushed IRC size HBG metal 0.16 CUM of 13.20 mm, 0.256 CUM of 11.20 mm and 0.176 CUM of 5.60 mm &amp; below for 10 SQM with 49.60 kg of bitumen for premixing for 10 SQM of 40 mm consolidated thickness of semidense carpet, including cost of bitumen, handling charges, labour for loading the bitumen in bitumen tanks and metal in feeder units, labour for attending paver units, heating &amp; mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix from CMP site to work site by tipper, spreading by the paver finisher to the required grade and cross profile and consolidation by power roller, including hire and running charges for CMP, paver finisher, tipper, power roller, bitumen boiler and all other tools and plants and all other incidental charges etc., complete.</p> <p>Rate includes cost of metal, bitumen, labour, hire &amp; running charges of tools &amp; plants, barricading, providing of danger lights etc.. complete. Payment will be made based on pre level &amp; post level measurements.</p>		CUM	

CONTRACTOR

20

ACCEPTING OFFICER

<b>Sl. No.</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate (both in figures and in words)</b>	<b>Unit</b>	<b>Amount</b>
11		Supply RCC pipes (NP2 Class) of following sizes with collars at site of work, lowering to trench, laying to proper grade and alignment, joining the collars with stiff mixture of cement mortar 1 : 2, testing of joints etc., but excludes cost of cement which will be supplied by BHEL at stores at free of cost.			
a	100	150 mm dia		RM	
b	200	250 mm dia		RM	
c	400	300 mm dia		RM	
d	1100	450 mm dia		RM	
e	1650	600 mm dia		RM	

**CONTRACTOR**

21

**ACCEPTING OFFICER**

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
12		Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame.			
a	10	Above 0.90 and upto 1.20 m depth (Rectangular)		EACH	
b	30	Above 1.20 and upto 1.50 m depth (Rectangular)		EACH	
c	40	Above 1.50 and upto 1.80 m depth (Rectangular)		EACH	
d	20	Above 1.80 and upto 2.10 m depth (Rectangular)		EACH	
e	20	Above 2.10 and upto 2.40 m depth (Rectangular)		EACH	

**CONTRACTOR**

22

**ACCEPTING OFFICER**

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
13		Supply and fixing C.I cover with/without frame for manholes/gully traps.			
a	120	560 mm dia C.I cover with frame. (Heavy duty) Total weight of cover and frame to be not less than 208 K.G ( Weight of cover 108 K.G and weight of frame 100 K.G)		EACH	
14	200	Labour charges for laying centrifugally C.I pipes (S&S or flanged pipes) in trenches to proper grade and alignment. Rate excludes cost of pipes.		MT	
15		Labour charges for cutting C.I pipes true to axis and filing smoothly and finishing the ends complete.			
a	100	150 mm dia C.I pipe.		EACH CUT	
b	100	200 mm dia C.I pipe.		EACH CUT	
16		Providing lead caulked joints to C.I pipes and specials including testing of joints but excluding cost of pig lead.			
a	400	125 / 150 mm dia pipe.		EACH JOINT	
b	300	200 / 250 mm dia pipe.		EACH JOINT	

CONTRACTOR

23

ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
17		Providing flanged joints to double flanged C.I pipes and specials including testing of joints, 3 mm thick rubber insertions, suitable bolts and nuts etc. complete.			
a	200	150 / 200 mm dia pipe.		EACH JOINT	
18	50	Labour charges for laying C.I specials such as tees, bends, collars, tapers, caps etc. in trenches to proper alignment. Rate excludes cost of specials.		MT	
19	450	Brick work in Cement Mortar 1:5 ,with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth.		CUM	
20		Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing, all as per standard specifications.			
a	150	Cement mortar 1:5		CUM	
21	20	Extra for random rubble and coursed rubble masonry with hard stone in CM 1:5 , in superstructure above plinth level and upto floor five level.		CUM	
22		Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering.			

CONTRACTOR

24

ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
a	225	1:4:8 with graded stone aggregate 40 mm nominal size.		CUM	
23	1400	Plastering with cement mortar 1:5 , 12 mm thick as per standard specifications.		SQM	
24	22	Straightening, cutting, bending, placing in position of MS/CTD bars and binding with MS binding wires of 18/20 gauge etc. for reinforcement of RCC works. Rate includes cover blocks, cost of binding wire , conveyance of MS/ CTD bars from BHEL stores to site of work, labour etc. complete. MS/CTD bars will be supplied by BHEL at Stores at free of cost.		MT	
25		Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level.			
a	50	Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.		SQM	

CONTRACTOR

25

ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
b	150	Suspended floors, roofs, landings, balconies, access platform and sunshades.		SQM	
c	50	Lintels, beams, plinth beams, girders, bressumers and cantilevers		SQM	
26	25	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.		CUM	
27	110	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete elements like slabs etc. of 25 to 150 mm thick in required sizes with mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly for cupboards, shelves etc. including setting in cement mortar 1:3, cost of centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges.		CUM	

**CONTRACTOR**

26

**ACCEPTING OFFICER**

<b>Sl. No.</b>	<b>Quantity</b>	<b>Description of work</b>	<b>Rate (both in figures and in words)</b>	<b>Unit</b>	<b>Amount</b>
28	1400	Providing rough stone dry packing for aprons and revetments including filling interstices with spalls, wedging, consolidating and preparing the surface, all as per standard specifications.		CUM	
29	10000	Pointing to rough stone dry packing in aprons and revetments including grouting to a depth of 40 mm with cement mortar 1:3, all as per standard specifications.		SQM	
30	05	Collection from BHEL stores and transporting the raw structural steel sections to the contractor's site fabrication shop, fabrication of steel work including all materials going into the process of fabrication and forming an integral part of the steel work together with all shop welding including using low hydrogen electrode wherever necessary, all as per drawings and standard specifications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office despatch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes raw structural steel sections which will be supplied by BHEL at stores at free of cost.		MT	

**CONTRACTOR**

27

**ACCEPTING OFFICER**

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Amount
31	05	Carrying from stacks at erection site to erection positions and erection of fabricated steel work including all handling, conveying, assembling, hoisting, erecting in position and site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes bolts & nuts, hire for welding tools and plants, labour etc., but excluding cost of fabricated components. If required, power will be given free of cost by BHEL. Weight of fasteners will not be accounted for payment.		MT	
<b>Total</b>					_____
					_____

(RUPEES ..... ONLY)

**NOTE:-**

1. Service Tax will be extra if applicable for this contract. Service Tax paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax.
2. The period of contract is Ten months. The contractor is required to plan accordingly and complete the work in time.

**CONTRACTOR**

28

**ACCEPTING OFFICER**

## SCHEDULE 'B'

1. The following materials will be issued FREE of cost to contractor at PPP Unit / BHEL near Thirumayam, Pudukkottai (Dt) (TamilNadu)

Sl.No	Name of Material
1	Cement
2	M.S Rounds,CTD Bars &Structural Steel, rails and all railway materials
3	A.C./ Galvalume/Polycarbonate Sheets
4	Cast iron pipes & Specials including pig lead for jointing

2. It will be the responsibility of the Contractor to submit his demands for the above stores in writing at least seven days in advance of the actual requirement.
3. Issue of materials is subject of the availability at the place of issue cited above, items of materials to be issued by BHEL which are not available at the time of indenting by the contractor may be supplied by BHEL after necessary procurement. The contractor shall not be entitled to any claim of compensation for delay in the supply of materials by BHEL under any circumstances.
4. Contractor shall have to receive the materials as soon as they are issued to him to the site of work at his own cost.
5. The steel materials if issued will be in random lengths and sizes as stocked by the BHEL and the cost of all cutting, conversion, substitution and fabrication as well as wastage shall have to be borne by the Contractor.
6. The contractor shall from time to time render proper account of all materials issued to him by BHEL. If he fails to do so, no further issue of materials will be made to him and he will be held responsible for any delay in the execution of the work which may occur on this account.
7. Any material issued at free of cost to the contractor, the contractor will have to make good at his own cost any loss or damage to any part or whole of the items issued to him as above. All wastage within the premises limits as fixed by BHEL will be charged for at the prescribed issued rates of BHEL. Excess wastage will be charged for at punitive rates which will be 100% higher than the issue rates.
8. All surplus materials in good condition which are not returned to the BHEL Stores as also quantities of materials consumed in excess of the max. Permissible limit as fixed by BHEL shall be charged for at punitive rates.

The decision of the Senior Engineer / Dy. Manager / Manager as to the extent to which materials have been rendered surplus or consumed in excess of the actual requirements shall be final and conclusive and binding on the contractor.

**SCHEDULE 'C'**

**ISSUE OF TOOLS AND PLANTS TO CONTRACTORS**

Sl.No.	Qty.	Particulars	Details of BHEL Crew Supplied	Hire Charges Per unit Per Day	Place of Issue	Remarks
--------	------	-------------	-------------------------------------	--	----------------------	---------

.....Nil.....

a. Machineries shall not be operated over time without the written permission of the Sr. Engineer / Dy. Manager / Manager.

b. All Coolies, Watermen etc., required in addition to BHEL crew mentioned in column 4 above shall be arranged by the contractor at his own expense.

**CONTRACTOR**

30

**ACCEPTING OFFICER**

### **SCHEDULE 'D'**

NOTE: All Drawings are to be signed by the Contractor as well as the officer entering into contract.

SL.No.	DRAWING NUMBER	DESCRIPTION
1	CEG:TP:01:00144	Layout of Plant
2	CEG:TP:01:00212	Sewerage Layout
3	CEG:TP:01:00213	Water Supply Line layout

### **SCHEDULE 'E'**

#### **LEAD STATEMENT**

SI.No	Name of Material	Name of Source	Lead Particulars
1	Cement	Will Be supplied at PPP Unit - BHEL	
2	M.S Rounds,CTD Bars &Structural Steel, rails and all railway materials		
3	A.C./ Galvalume/Polycarbonate Sheets		
4	Cast iron pipes & Specials including pig lead for jointing		
5	Broken Stones RR Stones etc	Paralimalai	10 km
6	Sand	Koodalur	18 km
7	Brick and Gravel	Kadiyapatti	6 km
8	Lime	Thirumayam	1 km

C.A.....Date .....  
(To be used in conjunction with BHE Ltd., General Conditions of Contract)

### AUTHORITY TO TENDER

Tender Notice No. **Township 06 / 10**

Office of the  
SR.DY.GEN. MANAGER / CIVIL /TOWNSHIP  
BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHY – 14.

Tender Schedule No. **T 26 / 10**

**Item rate tender for work required Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**

Messrs / Mr. ....

.....of.....

are / is hereby authorized to tender for the above work. The Tender is to be delivered at the Office of the SR.DY.GEN. MANAGER / CIVIL /TOWNSHIP Bharat Heavy Electricals Limited Unit, Thiruverumbur, Tiruchirappalli – 620 014, **up to 09.30 hrs. on 14.07.2010** addressed to the DY.Manager / Civil / Planning (Township), BHEL. Tiruverumbur, Tiruchirapalli – 620 014 superscribing the name of work as mentioned above.

Any correspondence concerning this tender should be addressed as indicated above quoting the Tender Notice, Schedule No. and other relevant particulars.

BHARAT HEAVY ELECTRICALS LIMITED DO NOT BIND THEMSELVES TO ACCEPT THE LOWEST OR ANY TENDER.

Issuing Officer with  
Designation

Contract Agreement No.....

**TENDER**

To

The Sr.Dy. General Manager/Civil/ Township  
Bharat Heavy Electricals Limited  
Unit : Tiruverumbur  
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the **Providing Water Supply Line , Sewer Line, Storm Water Drain and Internal Roads in the factory complex of PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**

I / We hereby carefully perused the following documents connected with the above noted work and agree to abide by the same.

- 1.Specifications (General & Particular )
- 2.Drawings
- 3.Schedule 'A', 'B', 'C', 'D' & 'E'
- 4.Schedule of Rates
- 5.BHE Ltd., General & Special Conditions of Contract, Tender Notice and Instructions to Tenders attached hereto.

I / We forward herewith the sum of Rs.....as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs.....mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the BHARAT HEAVY ELECTRICALS LIMITED General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & conditions contained or referred therein and as detailed in Schedule 'A' and Bill of Quantities annexure thereto and to carry out such deviations as may be ordered, vide conditions 6 of the BHEL Ltd., General Conditions of Contract up to a maximum of 20% of the tendered amount of Rs.....

I / We further agree to refer all disputes, as required by condition 62 of the General conditions of Contract to the sole arbitration of an Officer, to be appointed by the General Manager, B.H.E Ltd., in his sole discretion whose decision shall be final and binding.

**WITNESS**

Signature of the Contractor

Date :

1. ....

2. ....

**GENERAL SUMMARY**

- |    |   |       |
|----|---|-------|
| 1. | (a) Net Cost of works or building etc., from Schedule 'A' | Rs.   |
| 2. | Provisional sum   | Rs.   |
|    |   | ..... |
|    | Total   | Rs.   |
|    |   | ..... |

Rupees.....  
.....  
.....

Shri..... in the  
capacity of ..... has been  
duly authorized by me / us to sign the tender for and on behalf of  
.....

( in block letters )

Date :

SIGNATURE OF CONTRACTOR

Witness :

Postal Address :

1.....  
Address

Telephone No.

2. ....  
Address

**CONTRACTOR**

**ACCEPTING OFFICER**

..... alterations have been made in the Tender Document and as evidence that these alterations were made before the execution of contract agreement, they have been initialed by the Contractor and the

.....  
.....  
.....

.....the said officer is hereby authorized to sign and initial on my behalf the documents forming part of this contract (Number of alternation in figures and words to be given here)

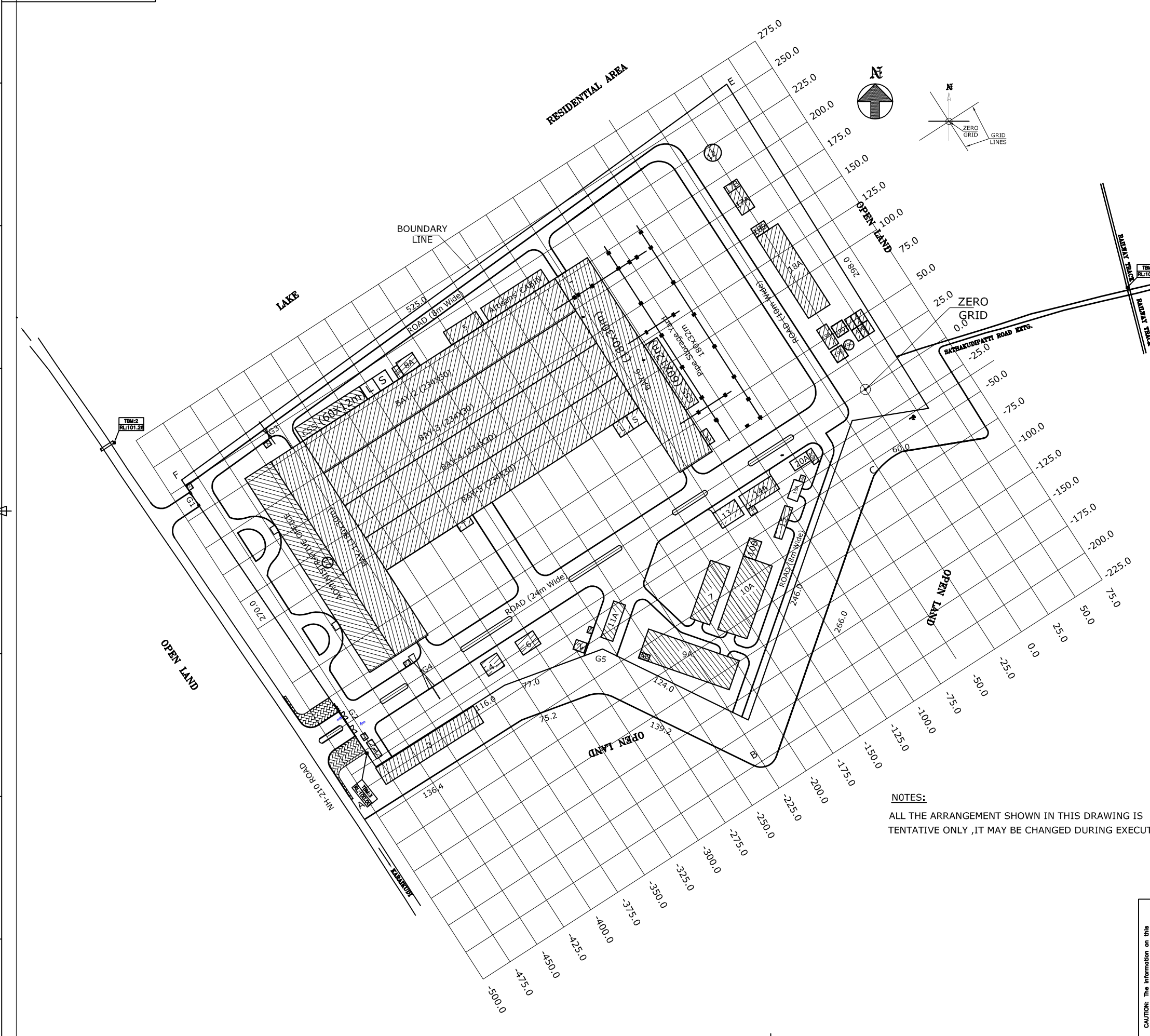
The above tender is accepted by me on behalf of the Bharat Heavy Electricals Limited, Unit: Thriuverumbur, Tiruchirappalli – 620 014. for a sum of Rs.....

.....  
.....

.....at the rates as indicated in Schedule 'A'.( Bill of Quantities)

Signature .....Date.....

Designation .....

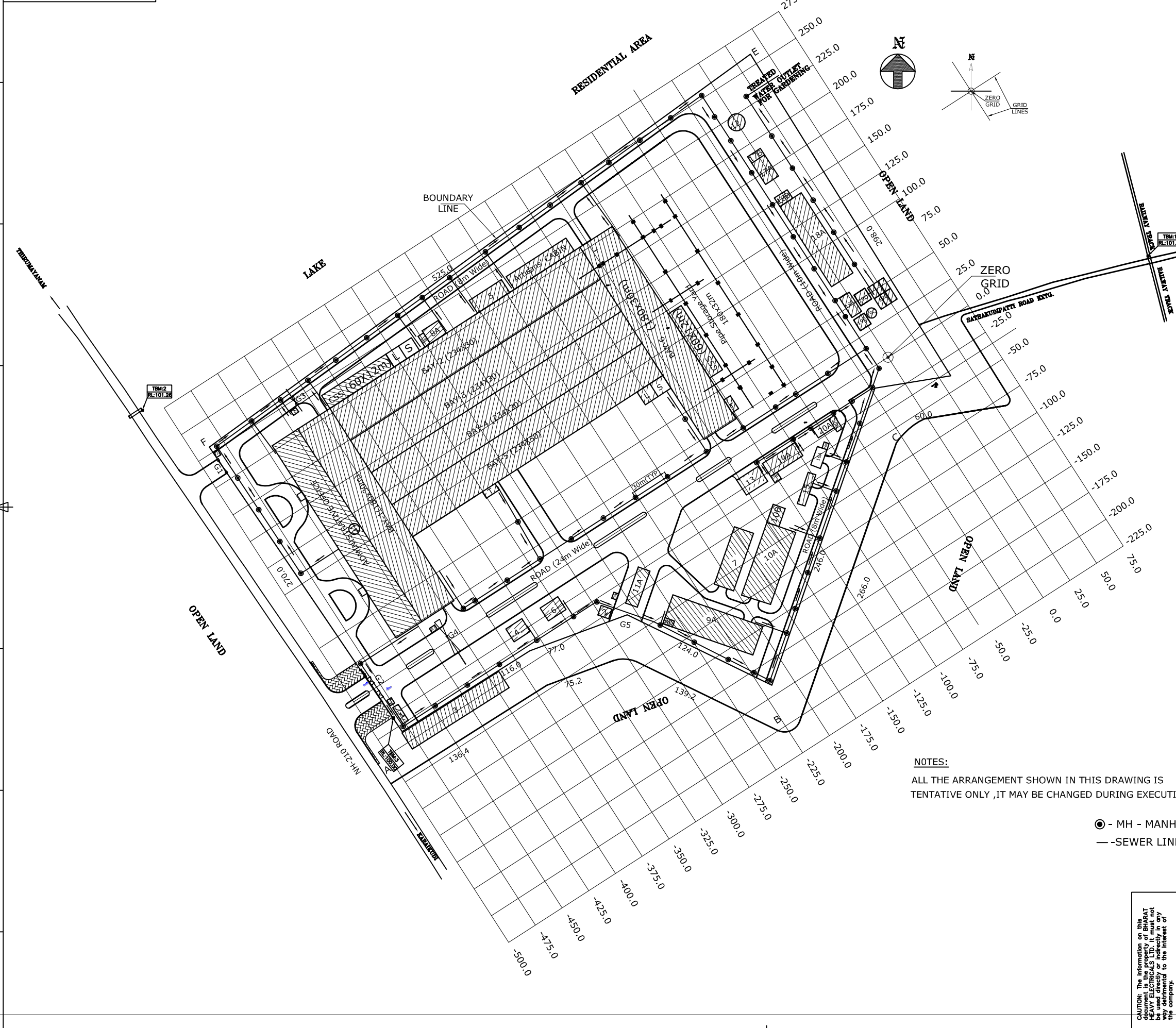


Sl.No	DETAILS
1)	Security Office
2)	Security Booth
3)	Parking Shed
4)	Fire Station
5)	Material Testing Lab
6)	FMC
7)	Canteen
8A)	Transport office
8B)	Transport garage
9A)	Scrap Disposal Yard
9B)	Office room
10A)	Stores office
10B)	Stores bldg-Covered shed
11A)	Weigh Bridge
11B)	Control room
12)	Water Tank
13)	Compressed Air Plant
14A)	Diesel generator plant
14B)	Diesel storage shed
15)	Main Electrical Substation
16)	Liquid Oxygen Plant
17A)	Civil Office
17B)	Civil stores shed
18A)	LPG storage yard & vapouriser
18B)	LPG Control room
19A)	Sewage Treatment plant aeration tank
19B)	Sewage Treatment plant collection sump
19C)	Sewage Treatment plant clarifier
19D)	Sewage Treatment plant filter feed sump
19E)	Sewage Treatment plant sludge drying bed
20A)	Inflammable Stores yard
20B)	Inflammable Stores
21)	Administrative office

**NOTES:**  
ALL THE ARRANGEMENT SHOWN IN THIS DRAWING IS TENTATIVE ONLY ,IT MAY BE CHANGED DURING EXECUTION

TENDER PURPOSE ONLY

<p>CAUTION: The information on this drawing is the property of Bharat Heavy Electricals Ltd. It must not be used directly or indirectly in any way detrimental to the interest of the company.</p>	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		POWER PLANT PIPING UNIT- THIRUMAYAM			
	Bharat Heavy Electricals Ltd		NAME	SIGNATURE	DATE	NO. OF VAR
	UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRAWN BY	R.PALANIKUMAR		
			APPROVED BY	K.JINASEKHARAN		
DEPT	GRADE OF UNITS: DIM C/M/F	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	ITEM NO	NO OF ITEMS
		1:1500				
TITLE			DRAWING NO :		REV	
LAYOUT OF PLANT			CEG:TP:01:00144			



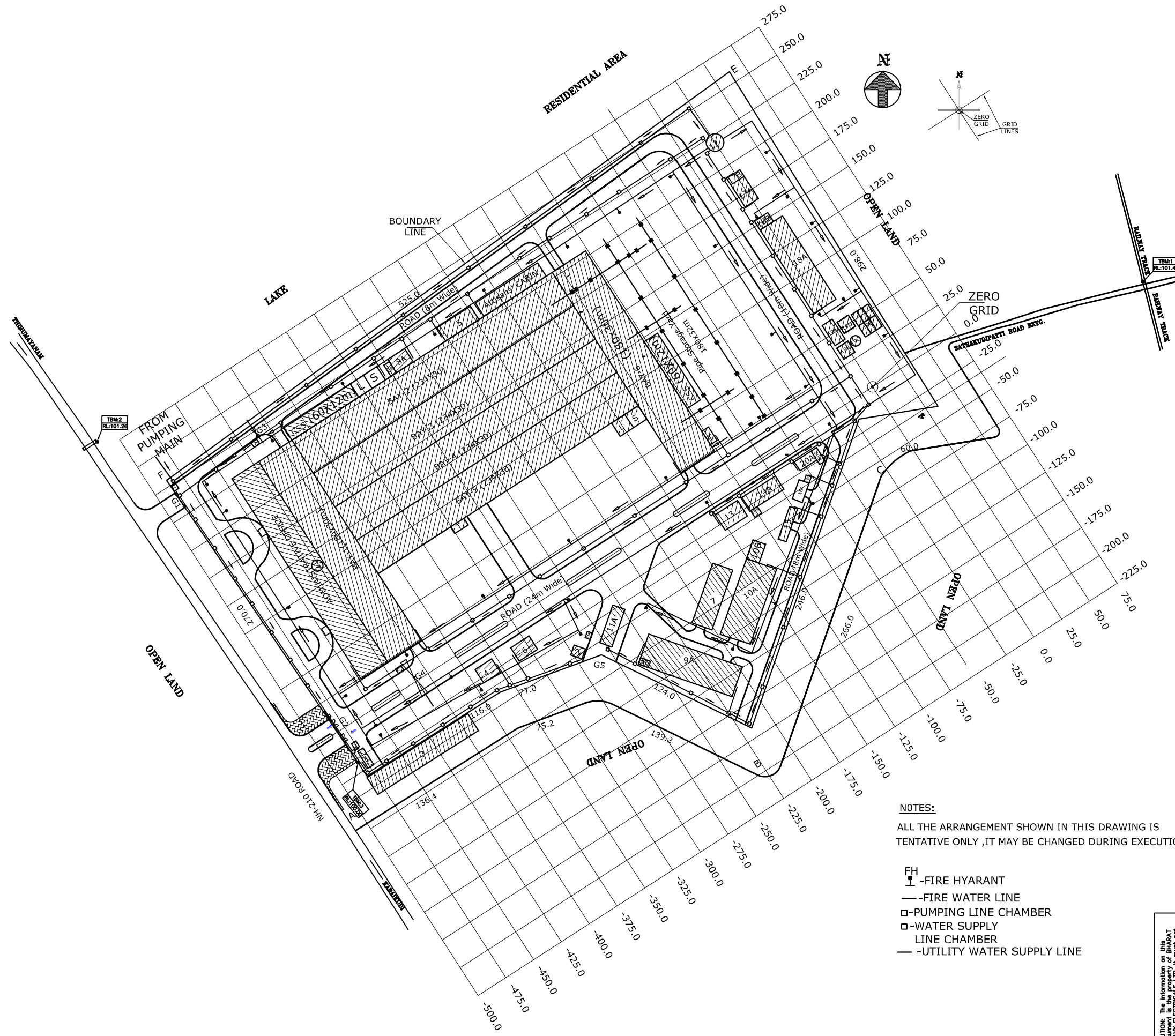
SI.No	DETAILS
1)	Security Office
2)	Security Booth
3)	Parking Shed
4)	Fire Station
5)	Material Testing Lab
6)	FMC
7)	Canteen
8A)	Transport office
8B)	Transport garage
9A)	Scrap Disposal Yard
9B)	Office room
10A)	Stores office
10B)	Stores bldg-Covered shed
11A)	Weigh Bridge
11B)	Control room
12)	Water Tank
13)	Compressed Air Plant
14A)	Diesel generator plant
14B)	Diesel storage shed
15)	Main Electrical Substation
16)	Liquid Oxygen Plant
17A)	Civil Office
17B)	Civil stores shed
18A)	LPG storage yard & vapouriser
18B)	LPG Control room
19A)	Sewage Treatment plant aeration tank
19B)	Sewage Treatment plant collection sump
19C)	Sewage Treatment plant clarifier
19D)	Sewage Treatment plant filter feed sump
19E)	Sewage Treatment plant sludge drying bed
20A)	Inflammable Stores yard
20B)	Inflammable Stores
21)	Administrative office

**NOTES:**  
ALL THE ARRANGEMENT SHOWN IN THIS DRAWING IS TENTATIVE ONLY ,IT MAY BE CHANGED DURING EXECUTION

⊙ - MH - MANHOLE  
— -SEWER LINE

TENDER PURPOSE ONLY

<small>CAUTION: The information on this drawing is the property of BHARAT HEAVY ELECTRICALS LTD. It must not be used directly or indirectly in any way detrimental to the interest of the company.</small>	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		POWER PLANT PIPING UNIT- THIRUMAYAM			
	Bharat Heavy Electricals Ltd		NAME	SIGNATURE	DATE	NO. OF VAR
	UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		DRAWN BY	R.PALANIKUMAR		
			APPD BY	K.GINASEKARAN		
DEPT	GRADE OF UNITS. DIM CODE	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	ITEM NO	NO OF ITEMS
	C/M/F	1:1500				
TITLE			CARD CODE	DRAWING NO :	REV	
SEWERAGE LAYOUT			U 01	CEG:TP:01:00212		



**NOTES:**  
 ALL THE ARRANGEMENT SHOWN IN THIS DRAWING IS TENTATIVE ONLY ,IT MAY BE CHANGED DURING EXECUTION

- FH - FIRE HYDRANT
- FIRE WATER LINE
- PUMPING LINE CHAMBER
- WATER SUPPLY LINE CHAMBER
- UTILITY WATER SUPPLY LINE

SI.No	DETAILS
1)	Security Office
2)	Security Booth
3)	Parking Shed
4)	Fire Station
5)	Material Testing Lab
6)	FMC
7)	Canteen
8A)	Transport office
8B)	Transport garage
9A)	Scrap Disposal Yard
9B)	Office room
10A)	Stores office
10B)	Stores bldg-Covered shed
11A)	Weigh Bridge
11B)	Control room
12)	Water Tank
13)	Compressed Air Plant
14A)	Diesel generator plant
14B)	Diesel storage shed
15)	Main Electrical Substation
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19D)	Sewage Treatment plant filter feed sump
19E)	Sewage Treatment plant sludge drying bed
20A)	Inflammable Stores yard
20B)	Inflammable Stores
21)	Administrative office

TENDER PURPOSE ONLY

CAUTION: The information on this drawing is for reference only. It must not be used directly or indirectly in any way detrimental to the interest of the company.	TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		POWER PLANT PIPING UNIT- THIRUMAYAM			
	Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		NAME	SIGNATURE	DATE	NO. OF VAR
	DEPT	GRADE OF UNITS. DIM C/M/F	SCALE	WEIGHT (Kg)	REF TO ASSY / OLD DWG	ITEM NO
	TITLE		CARD CODE	DRAWING NO :		REV
WATER SUPPLY LINE LAYOUT		U 01	CEG:TP:01:00213			