

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

**TENDER DOCUMENT (PRICE BID)**

**Name of work** : Annual Maintenance contract for  
Attending to civil complaints  
(carpentry, plumbing & masonry)  
including pump/valve operation for  
PPPU/BHEL at Thirumayam

**Value of work** : Rs. 26.70 Lakh

**Tender Notice No.** : Township – 03 / 12

**Tender Schedule No.** : T – 24 / 12

**Period of Contract** : 12 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 : **Annual Maintenance contract for Attending to civil complaints (carpentry, plumbing & masonry) including pump/valve operation for PPPU/BHEL at Thirumayam**
02. Estimated Cost : **Rs. 26.70 Lakh**
03. Earnest Money Deposit : **Rs. 60,000/-**
04. Completion Time : **12 Months**  
( From the date of commencement of the work which will be reckoned from the date of handing over 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 16 11 12**
07. Date of Tender Opening : **10.00 Hrs. on 16 11 12**
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 **201** pages in Qualification Bid and **39** pages in Price Bid including Bill of Quantities, Drawing etc.

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

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**ISSUING OFFICER**

**CONTRACTOR**

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**ACCEPTING OFFICER**

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

**CIVIL ENGINEERING DEPARTMENT (TOWNSHIP)**

**PREAMBLE**

The scope of work includes **Annual Maintenance contract for Attending to civil complaints (carpentry, plumbing & masonry) including pump/valve operation for PPPU/BHEL at Thirumayam**

01. The tender value excludes cost of cement, reinforcement steel & structural steel 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.
02. Time is the essence of the contract. Being a time bound project, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **12 months**, the works shall be completed progressively and handed over as per agreed split up schedule.
03. The tenderers are advised to visit the site and get themselves acquainted with the site conditions before submitting the offer.
- 04.. The following eligibility criteria shall be complied to fulfill the Qualification Bid:-
  - A) Separate Registration for EPF, , PAN & Service Tax , IT returns acknowledged by IT Office, Profit & Loss Account and Balance Sheet certified by the auditor for the last three years (2008-11).
  - B) Average annual turnover in civil works in the last three years shall be at least for a value of Rs. 8 Lakhs .
  - C) During last seven financial years should have successfully completed works either
    - i) Three Civil works each not less than Rs. 10.70 Lakhs .
    - or
    - ii) Two Civil works each not less than Rs.13.40 Lakhs
    - or
    - iii) One Civil work not less than Rs. 21.50 Lakhs
  - D) Latest solvency certificate (Obtained within 6 months) from Nationalised / Scheduled bank, shall be at least for a value of Rs.10.70 Lakhs.
- 05.. The works executed in the own name of the tenderer only will be considered for eligibility criteria.
06. **Required water will be supplied by BHEL at free of cost at One Point. Contractor has to make own arrangement for further distribution at their own cost.**
07. On the written request from the contractor **electrical energy required for the work may be given by this organization at one point at the site of work at free of cost.** The approximate power requirement shall have to be indicated while submitting the tender. BHEL does not accept any liability what so ever 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 contractors risk and cost. The contractor shall make leak proof fire proof shed and provide control panel board of the required capacity and lay the required cables at their own cost for further distribution.

**CONTRACTOR**

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**ACCEPTING OFFICER**

08. **The compressed air required for the work will be provided at the free of cost by BHEL at one point**

09. The labours engaged should be paid not less than the prevailing minimum wages, bonus act etc., as per state government norms in addition to the additional payment as specified in the BOQ of this tender document which is also reproduced below. The contractor shall ensure payment of minimum wages, bonus etc., as applicable under from time to time.

**The labours shall be paid additional payment as mentioned below in addition to the payment of minimum wages, bonus etc., for fully labour oriented work**

**Unskilled worker ---- Rs. 2000 /- per month**

**Semiskilled worker -- Rs. 2300/- per month**

**Skilled worker --- Rs. 2500/- per month**

The additional payment will attract statutory payment such as PF etc.,

10. Dissimilar / irrelevant works will not be considered for eligibility criteria.

11. 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.

12. The value of turnover and the value of similar works mentioned above exclude cost of cement, reinforcement steel and structural steel. However if the turnover value furnished by the tenderer includes above materials, then the tenderer has to furnish the cost of the same separately. If it is not furnished, the material cost will be presumed as follows: -

Civil & structural works combined	- 50 %
Civil works alone	- 35 %
Structural works including cloaking items	- 70 %
Other minor maintenance works	- 20 %

13. The norms for qualification with prescribed score is attached in the Qualification Bid Document. Evaluation will be done accordingly. Minimum score required for qualification is 60.

14. Agencies who had already been qualified and enlisted by BHEL under various money category can obtain. tender document for the eligible value of work after paying the cost of tender document. They may submit the tender document duly signed in all pages and no evaluation for qualification is required for them.

15. 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).

16. Quoted rate shall be firm throughout the contract period of 12 **months** or till completion of work and no cost escalation is allowed on any account.

17. 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. **The applicable service tax can be claimed from BHEL through proper invoice, along with their monthly bill for further payment to be made to the authorities concerned. The invoice formats are attached in this tender document at the end.**

18. 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.
19. 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.
20. 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.
21. 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.
22. 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.**
23. 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.
24. **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. Further the contractor has to furnish 50 % of security deposit before signing of agreement and commencement of work.**
25. 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) Full load mixture machine / mini batching
  - c) Petrol / Kerosene driven vibrator/ mechanical vibrator
  - d) Cube moulds
  - e) Inter carting vehicle (tractor, hand trolley etc)
  - f) Hydra cranes
  - g) Power operated winches
  - h) Mobile / Hydraulic crane
  - i) Welding machine etc.
26. 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.
27. The contractor has to execute any item of work irrespective of the quantity available in the tender without any reservation / extra cost till the contract value does not vary more than 20%.
28. 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.

29. 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 or as required by the department for processing bill.
30. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
31. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
32. The contractor shall strictly adhere to various labour laws in force.
- 33.. 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.
34. 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.
35. The contractor should establish his own site office, fabrication yard, handling facility, storage facility to stock about 300 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 co-ordinator             | - | 1 No.  |
| Civil Engineer (Graduate in Civil Engineering) | - | 1 No.  |
| Supervisor/Engineer (Diploma Holder)           | - | 2 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.
38. To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets 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. Expertised labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply, railway track laying and aligning works, sewerage system work, 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 / Township 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 organisation 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 subject 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. Compressed air alone will be provided if available at viable locations at free of cost by BHEL. From that point the contractor has to provide further arrangements for site works.
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 / Township with proper invoice / voucher and make necessary entry in the security gate. They should maintain proper record for tools and plats, materials, etc., brought inside.

55. The contractor should extend fullest 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 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. 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.
59. 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.
60. The main work order may further be split in to few sub work orders. The process of billing, material tallying and submission of completion reports will be according to the individual sub work orders.
61. Bank Guarantee format can be obtained after award of work in case of successful tenderer.
62. No advance / mobilization advance will be given.
63. LD / Penalty clause is applicable as per General Conditions of Contract in force.
64. BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at another project/unit awarded against a different Tender.
65. BHEL reserves its right to accept/reject any or all the tenders and to award the work in full or split to more than one agency without assigning any reasons.
66. 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. **The applicable service tax can be claimed from BHEL through proper invoice, along with their monthly bill for further payment to be made to the authorities concerned. The invoice formats are attached in this document at the end.**
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 endeavour 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. 01, 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 upto Rs. 2 lakhs	NIL
Works costing more than Rs.2 lakh and upto Rs. 5 lakhs	Rs. 10,000/-
Works costing more than Rs.5 lakhs and upto Rs.10 lakhs	Rs. 20,000/-
Works costing more than Rs.10 lakhs and upto Rs.20 lakhs	Rs. 40,000/-
Works costing more than Rs.20 lakhs and upto Rs.30 lakhs	Rs. 60,000/-
Works costing more than Rs.30 lakhs and upto Rs.50 lakhs	Rs. 1,00,000/-
Works costing more than Rs.50 lakhs and upto 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, cancel 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 recognise 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.
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 Income tax Clearance Certificate from the Income Tax– Officer concerned 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. If the successful tenderer fails to produce the Income – tax clearance certificate within the stated period the Earnest Money Deposit and Security Deposit of the tenderer may be forfeited and the contract terminated.

## TENDER NOTICE

**NAME OF WORK : Annual Maintenance contract for Attending to civil complaints (carpentry, plumbing & masonry) including pump/valve operation for PPPU/BHEL at Thirumayam**

### ESTIMATED COST : Rs. 26.70 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 ADDL. GENERAL MANAGER / CIVIL / TOWNSHIP Bharat Heavy Electricals Limited, Tiruchirappalli – 620 014. upto 09.30 hrs. on **16 11 12** and will be opened on the same day at 10.00 hrs. at the Office of the ADDL. 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. upto **14.11 12** 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 **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.
10. The rate quoted in the tender shall remain valid for a period **THREE MONTHS** from the date of opening of tenders.

**CONTRACTOR**

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**ACCEPTING OFFICER**

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 to 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. 01 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:

Upto Rs. 10 lakhs	10%
Above Rs. 10 lakhs upto 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 there of 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.
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.8.
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**

## SCHEDULE 'A'

### LIST OF WORKS AND PRICES

**NAME OF WORK: Annual Maintenance contract for attending to civil complaints (carpentry, plumbing and masonry) including pump / valve operation for PPPU BHEL at Thirumayam.**

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.	<b>Annual Maintenance contract for attending to civil complaints (carpentry, plumbing and masonry) including pump / valve operation for PPPU BHEL at Thirumayam</b>	<b>26.70 Lakhs</b> <b>(Rupees Twenty Six Lakhs Seventy Thousand only)</b>		<b>12 MONTHS</b>

### 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 15 PAGES

FROM SERIAL No. **16** to **30**

**CONTRACTOR**

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BHEL :- TRICHY- 14 ( CIVIL TOWNSHIP)

BILL OF QUANTITIES

NAME OF WORK: ANNUAL MAINTENANCE CONTRACT FOR ATTENDING TO CIVIL COMPLAINTS ( CARPENTRY, PLUMBING & MASONRY ) INCLUDING PUMP / VALVE OPERATION FOR PPPU / BHEL THIRUMAYAM

SL NO:	Qty	Description	Unit	Unit Rate	Amount
<b>PART A</b>					
1		Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge.			
a	10	Brick work in cement mortar	CUM		
b	10	Stone rubble masonry in cement mortar	CUM		
c	50	Old plastering / skirting raking out joints / chipping the concrete and roughening the surface.	SQM		
d	10	Plain Cement Concrete.	CUM		
e	10	RCC works including stacking of steel bars.	CUM		
f	10	RCC or PCC (Using jack hammer for pockets / cable trenches / industrial heavy duty flooring)	CUM		
g	20	RCC louvers / RCC jally	SQM		
h	40	Ellis pattern finish / Insitu mosaic.	SQM		
i	50	Tile work in floors and roofs laid in cement mortar.	SQ,		
j	50	Doors / Windows / Ventilators (steel or Aluminium) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sqm & below.	EACH		

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k	20	Only shutters of Doors / Windows / Ventilators (steel or Aluminium) including hinges, fastenings etc.	SQM
l	10	Orissa pattern water closet	EACH
m	10	EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin with connected fittings / RCC precast sink or other ready made sinks with connected fittings/ Nahani trap.	EACH
n	10	Flushing cistern of any size	EACH
o	200	G.I / PVC pipe lines of various dia including all specials.	M
p	100	C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Upto 150 mm dia	M
q	100	C.I pipes including earthwork excavation, breaking lead caulked joints, melting of lead and making into blocks, refilling trenches after taking out the pipes etc. Above 150 upto 300 mm dia	M
r	10	CI Sluice Valve - 150 mm dia	EACH
s	10	Above 150 mm dia	EACH
t	100	Galvalume sheets from roofs and side cladding including ridges, valleys, gutters etc.	SQM
u	10	Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc.	MT
v	30	R.C.C pipes upto 450 mm dia	M
w	20	Bituminous road.	CUM
x	20	W.B.M road.	CUM

2		Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of factory premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, leveling etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety precautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip.	
a	100	0 to 1 km	CUM
b	100	1 to 2 km	CUM
3		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	100	All kinds of soil except rock	CUM
b	100	Ordinary rock	CUM
4	40	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.	CUM
5	150	Filling available excavated earth 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	30	Providing and laying in position plain cement concrete of 1:4:8 grade with graded stone aggregate 40 mm size, including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering.	CUM

7		Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement.	
a	30	1:1.5:3 with graded stone aggregate 20 mm nominal size - All works upto plinth level.	CUM
b	30	1:1.5:3 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level.	CUM
8	10	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
9		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	20	Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	SQM
b	20	Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	SQM
c	30	Suspended floors, roofs, landings, balconies, access platform and sunshades.	SQM
d	30	Lintels, beams, plinth beams, girders, bressumers and cantilevers	SQM
e	20	Columns, pillars, piers, abutments, posts and struts.	SQM
10	9	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
11	40	Providing precast cement concrete Jali 1:2:4 of 50 mm thick, using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc. complete. Rate excludes reinforcement steel & fabrication charges.	SQM

12	20	Random rubble masonry in foundation and basement using CM 1:5 including simultaneous flush pointing, all as per standard specifications.	CUM
13	20	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in using CM 1:5	CUM
14	20	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes.	CUM
15		Replacement to the following furniture fittings with the new fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge. The quoted rate shall include supply of all the required materials	
a	20	Hydraulic door closer - universal type ( Heavy duty)	EACH
b	20	Brass Mortice lock 100 mm, 6 levers	EACH
c	40	D type Anodised Aluminium handle - 100 mm	EACH
d	20	100 x 11/12 mm Anodized Aluminium tower bolt	EACH
e	20	Hanging type door stopper	EACH
f	20	Providing and fixing double action hydraulic floor spring with stainless steel cover plate of approved brand and manufacture conforming to IS : 6315 for doors including cost of cutting floors as required, embedding in floors and cover plates with brass pivot and single piece M.S sheet outer box with side plate etc. complete as per instructions of Engineer-in- charge.	EACH
16		Providing and fixing 30 mm thick factory made solid panel PVC rigid foam door shutters with frames of Rajshri / Sintex Fomura / Plasopan / Echon / Qute / Gtex or equivalent but as per the specification, all as detailed below.	

The door shutter shall consist frame made out of 19 Gauge 19 mm M.S. square tube for styles, 15 mm for top & bottom rails, all frames covered with 5 mm thick heat moulded PVC- C channel to form 30 x 50 mm wide styles & 75 mm wide top, lock & bottom rail on either side & 10 mm thick (2x 5mm) 20 mm wide cross PVC sheet as gap insert for top & bottom rail including paneling of 5 mm thick PVC sheet fitted in the MS frame welded / sealed to the styles and rails with 5 mm thick 30 mm wide PVC beading on either side and joined together with solvent cement adhesive etc. An additional 5 mm thick PVC strip of 20 mm wide width is to be stuck on the interior side of the C-Channel using solvent cement etc., complete all as per manufacturer's specification and direction of Engineer in charge. The door frame shall be of size 50 x 47mm made out of 5 mm thick extruded rigid PVC foam sheet mitre at corners, joined perfectly and inserted with 2 Nos. of 150 mm long L shape brackets made of 15 mm MS square tube. The vertical door profile is to be reinforced with 19 Gauge 19 mm MS square tube, all weather sealed throughout the frame. The shutter shall be provided with powder coated 6" tower bolt - 3 Nos., 4" handle - 2 Nos. and 4" SS hinge - 3 Nos. Frame shall have to be rigidly fixed with wall by means of 100 mm SS screws driven at least not less than 10 places.

a	10	Door with frame	SQM
b	10	Door shutter without frame	SQM
17	3	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

Rate shall include cost of providing one coat of red oxide primer to relevant IS specification over structural steel works., including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications.

18	3	<p>Collection from BHEL stores and transporting the ERW / seamless steel tubes to the contractor's site fabrication shop, fabrication of columns, trusses, purlins, runners, hand rails, etc., (<b>all tubular</b>) 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 alvaniz list for BHEL's approval in compact disk with two copies of printout, 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 ERW / seamless steel tubes which will be supplied by BHEL at stores at free of cost.</p> <p>Rate shall include cost of providing one coat of red oxide primer to relevant IS specification over structural steel works., including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications.</p>	MT
19	5	<p>Carrying from stacks to erection site and erection of fabricated steel work including all handling, conveying, assembling, hoisting, erecting in position, site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes cost of bolts &amp; nuts of approved brand and quality, hire charges for cranes, lifting tackles, 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</p>	MT
20	5	<p>Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with synthetic enamel paint of approved brand and shade, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, scaffolding charges etc.complete. All as per standard specifications. (Two coats)</p>	MT
21	50	<p>Carrying form BHEL Stores at PPPU Thirumayam and fixing in position of 0.47 to 0.50 mm thick colour coated Galvalumne rib profile sheets with accessories such as ridge pieces, barge boards, curves etc., for roofing at all heights wiith necessary self drilling/self tapping screws with EPDM washers etc., complete all as per drawings, manufacturers specifications and instructions of Engineer-in-charge. Rate includes self drilling screws with EPDM washers etc., and labour charges for fixing , hire charges for tools and plants like drilling machines, cost of providing life line and other provisions for safety, taxes, duties and all other incidental charges etc., complete.Rate Excludes Galvalume rib profile sheets, accessories such as barge boards,ridge pieces etc which will be supplied by BHEL at free of cost . The payment will be made for the actual laid area only.</p>	SQM

22	50	Carrying form BHEL Stores at PPPU Thirumayam and fixing in position of 0.47 to 0.50 mm thick colour coated Galvalumne rib profile sheets with accessories such as ridge pieces, barge boards, curves etc., for side sheeting at all heights wiith necessary self drilling/self tapping screws with EPDM washers etc., complete all as per drawings, manufacturers specifications and instructions of Engineer-in-charge. Rate includes cost of galvalume rib profile sheets, self drilling screws with EPDM washers etc., and labour charges for fixing , hire charges for tools and plants like drilling machines, cost of providing life line and other provisions for safety, taxes, duties and all other incidental charges etc., complete. Rate Excludes Galvalume rib profile sheets, accessories such as barge boards,ridge pieces etc which will be supplied by BHEL at free of cost .The payment will be made for the actual laid area only.	SQM
23	50	Finishing the top of all floors with 25 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to10 mm gauge hard broken granite stone chips, finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellispattern flooring)	SQM
24	20	Flooring with reinforced cement concrete of mix 1:2:4 using 40 mm and down graded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.	CUM
25	20	Floor finish with 40 mm thick granolithick flooring over the concrete base while it is wet for proper bonding, the bottom 25 mm thick consisting of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and the top 15 mm finished with hardening compound of proportion one part of hardonate (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.	SQM
26	50	Providing and laying 7 mm thick (approximate) ceramic glazed floor tiles of first quality approved make confirming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 20 mm thick cement mortar 1:4, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	SQM

27	50	Providing and laying 7mm thick (approximate) ceramic glazed wall tiles of first quality of approved make confirming to IS:15622 and in all colours of required sizes in skirting, walls, risers of steps and dado laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3 plaster and joined with white cement using appropriate colour pigment etc.complete, all as per standard specifications.	SQM
28	100	Plastering with cement mortar 1:5, 12 mm thick as per standard specification	SQM
29	50	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.	SQM
30	500	White washing on surfaces with three or more coats using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete.	SQM
31	600	Removing white/colour wash/distemper by scraping, sand papering and preparing the surfaces smooth including necessary repairs to scratches etc. complete.	SQM
32	200	Applying one coat of exterior emulsion primer (ACE or any other equivalent) of approved brand and manufacture on wall surfaces at all levels. Rate includes cost of all material and labour charges.	SQM
33		Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete.	
	200	Two Coats	SQM
34		Distemping using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications.	
	400	Three coats (A priming coat with approved primer and two coats of distemping).	SQM
35		Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications.	
	20	Three coats (A priming coat with approved primer and two coats of synthetic enamel paint).	SQM

36		Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls)	
a	20	15 mm dia nominal bore.	M
b	20	20 mm dia nominal bore.	M
c	50	25 mm dia nominal bore.	M
d	20	32 mm dia nominal bore.	M
e	50	40 mm dia nominal bore.	M
f	50	50 mm dia nominal bore.	M
37		Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately.	
a	20	15 mm dia nominal bore.	M
b	20	20 mm dia nominal bore.	M
c	20	25 mm dia nominal bore.	M
d	20	32 mm dia nominal bore.	M
e	340	40 mm dia nominal bore.	M
f	340	50 mm dia nominal bore.	M
38		Providing and fixing in position of brass wheel valve / gate valve of approved brand with C.I wheel etc. complete. (ISI marked)	
a	20	15 to 25 mm nominal bore	EACH
b	20	32 mm nominal bore	EACH
c	20	40 mm nominal bore	EACH

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d	20	50 mm nominal bore	EACH
39		Providing and laying PVC water pipes and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately.	
a	50	PVC Pipe 75 mm OD (6 kg/Sq.cm)	M
b	50	PVC Pipe 110 mm OD (6 kg/Sq.cm)	M
c	50	PVC Pipe 160 mm OD (6 kg/Sq.cm)	M
40	10	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia PVC waste pipe etc. complete, including cutting and making good the walls wherever required.	EACH
41	20	Supplying at site of work and fixing in position of white glazed earthenware Elegant 'JUMBO TYPE' long size urinal of Parry ware or equivalent make including supply and fixing of CP spreader, PC lead connection, waste coupling, CP flange, fixing brackets and PVC bush etc., complete. The rate is inclusive of conveyance of all the above materials to site of work labour for carrying to spot and fixing with necessary screws etc., complete. All as per standard specifications and instructions of Engineer-in-charge.	SQM
42	10	Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests,suitable P or S trap etc. complete.580 mm size (White) (Parryware/Neycer/Cera)	EACH
43	8	Replacement to the damaged European water closet by providing new white glazed European water closet (white) 400 mm high of approved brand with seat & lid. Rate includes dismantling the damaged water closet, providing new EWC, fixing, all labour etc. complete.	EACH
44	10	Providing and fixing in position of 10 litre low level PVC flushing cistern of approved make with fittings and flush pipe etc. complete.	EACH

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45		Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. (internal work - exposed on walls)	
a	50	PVC Pipe 18/20 mm OD (10 kg/Sq.cm)	M
b	50	PVC Pipe 25 mm OD (10 kg/Sq.cm)	M
c	50	PVC Pipe 32 mm OD (10 kg/Sq.cm)	M
d	50	PVC Pipe 40 mm OD ( 6 kg/Sq.cm)	M
e	50	PVC Pipe 50 mm OD ( 6 kg/Sq.cm)	M
46		Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete.	
a	50	75 mm shoe	EACH
b	50	110 mm shoe	EACH
c	50	160 mm shoe	EACH
d	50	75 mm bend	EACH
e	50	110 mm bend	EACH
47	10	Supply and fixing edge moulded urinal partition of approximate size 1.20 x .90 m made up of marble slab of thickness 16 to 18 mm thickness.The scope includes cutting of walls,fixing and finishing the same to match with the existing wall.	SQM
48		Supply and fixing the following boards/sheets of approved brand & quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc.complete. Rate excludes cost of respective frame works.	
a	50	Pre laminated (both sides) particle boards - 9 mm thick - (Novapan-Standard or equivalent)	SQM
b	50	Pre laminated (both side) particle boards - 12 mm thick - (Novapan-Standard or equivalent)	SQM

49		Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminium snap beading shall be paid in basic item.)	
a	20	With glass panes 4 mm thick	SQM
b	20	With glass panes 5.5 mm thick	SQM
50	4400	Desludging and cleaning the underground equalising reservoirs by dewatering, scraping the silt deposited on floor, brushing, swabbing, cleaning, scraping side walls and floors with bleaching powder, removing dirt, moss, cleaning the reservoirs with fresh water etc. complete. Rate includes labour, scaffolding, brushes, brooms etc. complete. Bleaching powder, electrical/diesel operated pumps with power/diesel and fresh water will be supplied by BHEL at free of charges.	SQM
51	8	Cleaning of over head water tank of 500 cum capacity with a staging height of ABOUT 35 M from ground level by de-watering, removing algae, fungus, scouring the silt deposited on the floors of the tank, removing cobweb, brushing, scraping the side walls of inner and outer shells, floors, columns and beams using necessary cleaning powder on all interior surfaces and kept under disinfection for a minimum of 12 hour, then washing thoroughly with clean water without any residual cleaning powder or any other foreign matter etc., complete. Necessary cleaning powder, brushes, brooms and ladder will be supplied by BHEL at stores at free of cost. Contractor has to take all safety precautions.	EACH

**PART B**

1	12	<p>Operation and Maintenance of valve in water supply work in round the clock shift ( 3 shifts per day - each shift being 8 hrs ) including Sundays &amp; holidays. The scope of work includes operation of pump in various bore wells, Under Ground Sump and filling the water in the overhead tanks provided in various buildings, maintaining and recording the water levels in the register. Further, the scope of work also includes attending to repair works in water supply lines in various buildings, toilets etc., inspection and maintenance of water supply main and distribution lines.( Earthwork excavation and refilling if required will be paid under separate item ). All materials such as pipes specials etc will be issued by BHEL at free of cost. The labour should also attend to the faults in the electrical equipments such as motors,switches, panel boards, lighting circuits, and replace the electric bulbs, flourecent lamp , fuses etc., Further the labour should claen and maintain the electrical equipments like motors, starters, panel boards transformers, generator rooms , pump houses, valve chambers etc.</p> <p>Note:- 1. The above list is not exhaustive but only indicative. The contractor is also required to carry out activities not specifically mentioned here but required for the better upkeep of the area</p> <p>2. All the materials, spares, consumables, tools etc. will be supplied by BHEL at Stores at free of charges and Contractor should maintain necessary records for the same</p> <p>3.The Contractor has to visit the site and estimate the manpower requirement such as Trade certificate holder and helper before quoting their offer.</p> <p>4. Any unworkable/unrealistic rate is liable for rejection.</p> <p>5.Non deplyment of man power in any shift will attract recovery on pro rata basis plus 10 % .</p> <p>6.In addition to the minimum wage addlitional payment of Rs 2000 per Month for unskilled worker, Rs 2300 per Month for Semi Skilled Worker and Rs .2500 per Month for Skilled worker should be paid.</p>	MON
2		<p>Cleaning, washing and swabbing the following inside Factory complex including the floor area dado etc. as per the frequency mentioned against each activity in Annexure-1 in all toilets, wash basins, tea-points, etc. Payment will be made based on the actual work done and on acknowledgement from the user departments. Quoted rate shall include cost of labour, tools &amp; plants, machineries, necessary chemicals, acids and other cleaning materials, etc. Required quantity of water, power and storage room will be given by BHEL at free of cost.</p>	
A	5000	Wash basin	Each Time

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B	7400	Urinal	Each Time	
C	6700	Water closet	Each Time	
D	1400	Bathroom	Each Time	
E	800	Wash trough up to 2m length	Each Time	
3	12	Operation and Maintenance of 600 CUM capacity sewage treatment plant round the clock at PPPU BHEL, Thirumayam to treat the sewage from the plant. The scope covers deputing qualified and experienced technician for operation of the plant. The operation is required to monitor proper functioning of all the equipments and the system in total for effective performance of the plant for better results .The scope includes operation of the equipments attending to minor defects then and there cleaning and lubricating the rotating parts periodically ,maintaining the electrical system such as directed by BHEL, collecting samples for testing including submission of test report at contractor cost, maintaining the log book for all the activities. Required number of operators are to be made available for round the clock shifts. Required consumables and chemicals will be supplied at BHEL stores at free of cost.	Month	
4	200	Removal of all blockages in the sewer line of various diameter (100mm to 600mm) for all sizes and depth (maximum 2 meters) manholes including removal of manhole cover cleaning of all blockages wherever required including conveyance of all debris generated thorough washing using clean water and replacing the removed manhole cover in original position etc completed. The rate shall the included all labour charges cost of required water, tools and plants incidental charges.	M	.58
			TOTAL	

**CONTRACTOR**

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**ACCEPTING OFFICER**

## SCHEDULE 'B'

1. The following materials will be issued FREE of cost to contractor at BHEL Stores / Stock yard.

SI.No.	DESCRIPTION	PLACE OF ISSUE
1	Cement	PPPU / BHEL Stock yard
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	PPPU / BHEL Stock yard
3	A.C. / Galvalume / Polycarbonate Sheets	PPPU / BHEL Stock yard
4	Cast iron pipes & specials including pig lead for jointing	PPPU / BHEL Stock yard

2. It will be the responsibility of the Contractor to submit his demands for the above stores in writing atleast seven days in advance of the actual requirement.
3. Issue of Stores is subject of the availability at the place of issue cited above, items of stores 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 stores by BHEL under any circumstances.
4. The materials will be issued only during the working hours of the BHEL Stores Department ( 8.00 a.m. to 4.30 p.m. ). Contractor shall have to transport them 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. Where A.C. Sheets and accessories, Doors, Windows, Sanitary fittings, Special glasses or other items are issued 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
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.....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.

### **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
---	----	----NIL----

**SCHEDULE 'E'**  
**LEAD STATEMENT**

<b>Sl.No.</b>	<b>Name of Material</b>	<b>Name of Source</b>	<b>Lead Particulars for Factory</b>
1	Cement	BHEL Stores	2 Kilometre
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL Stores	2 Kilometre
3	A.C. / Galvalume / Polycarbonate Sheets	BHEL Stores	2 Kilometre
4	Cast iron pipes & specials including pig lead for jointing	BHEL Stores	2 Kilometre

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

### AUTHORITY TO TENDER

Tender Notice No. Township -01/12

Office of the  
ADDL GENERAL MANAGER  
CIVIL / TOWNSHIP  
BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHY – 14.

Tender Schedule No.T-12/12

**Item rate tender for work required in Annual Maintenance contract for attending to civil complaints (carpentry, plumbing and masonry) including pump / valve operation for PPPU BHEL at Thirumayam**

Messrs / Mr. ....

.....of.....

are / is hereby authorized to tender for the above work. The Tender is to be delivered at the Office of the ADDL.GENERAL MANAGER / CIVIL / TOWNSHIP Bharat Heavy Electricals Limited Unit, Thiruverumbur, Tiruchirappalli – 620 014, **upto 09.30 hrs. on 16 11 12** addressed to the Manager / Civil / Planning (Township), BHEL. Tiruverumbur, Tiruchirappalli – 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.....

**CONTRACTOR**

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**ACCEPTING OFFICER**

**TENDER**

To

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

**I / We hereby offer to carryout the work of Annual Maintenance contract for attending to civil complaints (carpentry, plumbing and masonry) including pump / valve operation for PPPU BHEL at Thirumayam**

I / We hereby carefully perused the following documents connected with the above noted work and agree to obide 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 upto 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

..... 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 percentage rates as indicated in Schedule 'A'.

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

Designation .....

Original /Duplicate/Triplicate

## Invoice format for Works Contract – Other than Companies

XYZ Ltd,

Address , Contact number  
 Service Tax Registration number  
 Nature of Service –

Invoice No  
 Invoice Dt

SWO No.

PO No.

Sl. No	Description	Amount
	<u>Service Description</u>	
	<u>Place of Service</u>	
	<u>Service Period</u>	
	<b>Service Value (A)</b>	
	<b>Free issue material value (B)</b>	
	<b>Total value (C)</b>	
	<b>Service Tax on (C) @ __ %</b>	
	<b>Cess 2%</b>	
	<b>Cess 1%</b>	
	<b>ST Claimed (D)</b>	
	<b>Note : Balance Service Tax will be remitted by BHEL as per notification 30 / 2012 dt.,20/06/12.</b>	
	<b>Total Amount (A)+(D)</b>	

**Declaration**

We are not taking CENVAT credit of duty on inputs, used in or in relation to the Works contract entered into BHEL, Trichy under the provisions of the CENVAT Credit Rules 2004.

**Original /Duplicate/Triplicate  
Invoice format for Works Contract –Company**

XYZ Ltd,

Address , Contact number

Service Tax Registration number

Nature of Service –

Invoice No  
Invoice Dt

SWO No.

PO No.

Sl. No	Description	Amount
	<u>Service Description</u>	
	<u>Place of Service</u>	
	<u>Service Period</u>	
	<b>Service Value (A)</b>	
	<b>Free issue material value (B)</b>	
	<b>Total value (C)</b>	
	<b>Service Tax on (C) @__ %</b>	
	<b>Cess 2%</b>	
	<b>Cess 1%</b>	
	<b>Service tax Claim (D)</b>	
	<b>Total Amount (A)+(D)</b>	

**Declaration**

We are not taking CENVAT credit of duty on inputs, used in or in relation to the Works contract entered into BHEL, Trichy under the provisions of the CENVAT Credit Rules 2004.

CONTRACTOR

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ACCEPTING OFFICER