

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

**TENDER DOCUMENT (PRICE BID)**

**Name of work** : Construction of shed, RCC buildings, oil storage tank ,LPG plant related works & other infrastructural works for PPPU-BHEL near Thirumayam

**Value of work** : Rs. 132 Lakh

**Tender Notice No.** : Township 02 / 12

**Tender Schedule No.** : T -17 / 12

**Period of Contract** : 06 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 : **Construction of sheds, RCC buildings oil storage tank, LPG plant related works and other Infrastructural works for PPPU-BHEL near Thirumayam.**
02. Estimated Cost : **Rs. 132 Lakh**
03. Earnest Money Deposit : **Rs.2,00,000/-**
04. Completion Time : **SIX ( 06 ) 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 06.07.2012**
07. Date of Tender Opening : **10.00 Hrs. on 06.07.2012**
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 **210** pages in Qualification Bid and **53** 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**

01. The scope of work includes **Construction of sheds, RCC buildings, oil storage tank, LPG plant related works & other Infrastructural works for PPPU- BHEL near Thirumayam.**
02. 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.
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 **06 months**, the buildings 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 Pudukottai (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 atleast Rs. 40 lakhs (Apr 2008 – Mar 2011)
  - c) During last seven years should have successfully completed either
    - i) Three civil construction works each not less than Rs. 53 lakhs .  
or
    - ii) Two civil construction works each not less than Rs. 66 lakhs .  
or
    - iii) One civil construction work not less than Rs. 106 lakhs.
  - d) Latest Solvency (within 6 months) from the banker shall be produced for at least Rs.53 lakhs .
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.
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.

**CONTRACTOR**

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**ACCEPTING OFFICER**

10. The value of turnover and the value of similar works mentioned above excludes cost of cement, reinforcement steel and structural steel. 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 % |
| 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 **06 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 45).**
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) 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.
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)	-	2 Nos.
Structural Engineer (Graduate in Mechanical / Civil Engg.)	-	1 Nos.
Supervisor/Engineer (Diploma Holder)	-	3 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 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 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 provided by this organization at the designated points at free of cost**

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. In the event of non availability power, the contractor is required to make his own arrangement.

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 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 :** Construction of sheds, RCC buildings, oil storage tank, LPG plant related works & other Infrastructural works for PPPU- BHEL near Thirumayam.

### **ESTIMATED COST : Rs. 132 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.MANAGER / CIVIL / TOWNSHIP Bharat Heavy Electricals Limited, Tiruchirappalli – 620 014. up to **09.30 Hrs** on **06 07 12** and will be opened on the same day at **10.00 hrs.** at the Office of the SR. 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 04.07.2012** 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 **SR.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 over writings 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. Quoted rate shall be firm throughout the contract period of **06 months** and no cost escalation is allowed on any account.

**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 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 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 the period as mentioned in the tender document.
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:** Construction of sheds, RCC buildings, oil storage tank, LPG plant related works and other Infrastructural works for PPPU-BHEL near 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.	Construction of sheds, RCC buildings ,oil storage tank LPG plant related works and other Infrastructural works for PPPU- BHEL near Thirumayam.	1,32,00,000/- (Rupees one crore thirty two lakhs only)		06 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 30 PAGES

FROM SERIAL No. 16 to 45

CONTRACTOR

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

**Name of Work : Construction of sheds, RCC buildings, Oil storage tank, LPG plant related works & other infrastructural works for PPPU –  
BHEL near Thirumayam**

**Bill Of Quantities**

<b>Sl. No.</b>	<b>Qty</b>	<b>Description of work</b>	<b>Rate(Both in Figures and Words)</b>	<b>Unit</b>	<b>Amount</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 nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge.			
a	5	Brick work in cement mortar		CUM	
b	5	Stone rubble masonry in cement mortar		CUM	
c	5	Plain Cement Concrete.		CUM	
d	5	RCC works including stacking of steel bars.		CUM	
e	10	RCC pipes up to 450mm dia.		RM	
f	5	Bituminous road.		CUM	
g	5	WBM Road		CUM	
h	5	Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc.		MT	

**CONTRACTOR**

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2		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 sub grade to proper level and grade, watering and consolidating the sub grade 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	2000	All kinds of soil except rock		CUM	
b	300	Ordinary rock		CUM	
c	135	Hard rock requiring blasting		CUM	
d	120	Hard rock ( Blasting prohibited) - By Splitter		CUM	
3		Extra for every additional lift of 1.5 metre or part thereof in :			
a	720	All kinds of soil excluding rock.		CUM	
b	150	Ordinary or hard rock		CUM	
4		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 up to 50 metres and lift upto 1.5 metre, sectioning the sub grade to proper level and grade. Disposed soil are to be leveled and neatly dressed.			
a	10	Hard dense Soil		CUM	
b	10	Ordinary rock		CUM	

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5	1600	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 up to 50 m and lift up to 1.5 m etc. complete.		CUM	
6	75	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.		CUM	
7	20	Bailing or pumping out water from trenches, foundations etc., at all depths wherever necessary in the event of extraordinary occurrences as directed by Engineer in-charge and as per standard specifications.		HP/Hr	
8		Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc complete all as per standard specifications. All works up to plinth level. Rate excludes cost of centering and shuttering.			
a	140	1:4:8 graded stone aggregate 20 mm nominal size		CUM	
b	5	1:4:8 graded stone aggregate 40 mm nominal size		CUM	
c	50	1:2:4 graded stone aggregate 20 mm nominal size		CUM	
9		Centering and shuttering including strutting, propping, assembling etc. and removal of form work. Up to a maximum height of 4.50 metre of each floor and also up to floor five level.			
a	300	Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.		SQM	
b	80	Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.		SQM	

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c	475	Suspended floors, roofs, landings, balconies, access platform and sunshades.		SQM	
d	1300	Lintels, beams, plinth beams, girders, bressumers and cantilevers		SQM	
e	395	Columns, pillars, piers, abutments, posts and struts.		SQM	
f	7	Pockets or holes in foundations for holding down bolts.		SQM	
g	15	Extra for shuttering in circular work .		SQM	
10	55	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 Stores at Thirumayam at free of cost.		MT	
11	100	Random rubble masonry in Cement Mortar 1:5 in foundation and basement including simultaneous flush pointing, all as per standard specifications.		CUM	
12	90	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.		SQM	
13		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	700	0 - 1 Km		CUM	
b	50	Beyond 1 KM but Up to 2 KM		CUM	
c	50	Beyond 2 KM but Up to 3 KM		CUM	

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14	20	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 centering, 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 up to Floor V level.		CUM	
15		Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of centering, shuttering, finishing and reinforcement.			
a	125	1:1.5:3 with graded stone aggregate 20 mm nominal size - All works up to plinth level.		CUM	
b	20	1:2:4 with graded stone aggregate 20 mm nominal size - All works upto plinth level.		CUM	
c	200	1:1.5:3 with graded stone aggregate 20 mm nominal size - All works Above Plinth to Floor Five Level.		CUM	
d	10	1:2:4 with graded stone aggregate 20 mm nominal size - All works Above Plinth to Floor Five Level.		CUM	
16	325	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	

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17	225	Brick work in Cement Mortar 1:5 with FPS (second class ground moulded chamber bricks) of class designation 50 in foundation and plinth in:		CUM	
18	50	Brick work in Cement Mortar 1:5 with Fly ash bricks of class designation 75 in foundation and plinth in		CUM	
19	200	Extra for Brick work in superstructure above plinth up to floor three level in all shapes and sizes.		CUM	
20	1800	Plastering with Cement Mortar 1:5 of 12 mm thickness as per standard specifications		SQM	
21	575	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.		SQM	
22	2500	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	
23		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.			
a	2500	Two Coats		SQM	

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24	1200	White washing three coats on surfaces at all levels 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	
25		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.			
a	530	Three coats (A priming coat with approved primer and two coats of distemping).		SQM	
26		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.			
a	40	Three coats (A priming coat with approved primer and two coats of synthetic enamel paint).		SQM	
27	5	Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints.		SQM	
28	1	Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubicmetre of coarse sand for expansion joints.		CUM	

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29	6	Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm nominal size 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	
30	12	Collection from BHEL stores at PPPU Thirumayam and transporting the ERW / seamless steel tubes to the contractor's site fabrication shop, fabrication of columns, trusses, purlins, runners, hand rails, etc., ( all tubular) 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 Stores at PPPU Thirumayam at free of cost. 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.		MT	

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31	38	Collection from BHEL stores at PPPU Thirumayam 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 stores at PPPU Thirumayam at free of cost. 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.		MT	
32	50	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 & 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.		MT	

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33	50	Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with two coats of 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.		MT	
34	15	Providing precast cement concrete Jalli 1:2:4 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. 50 mm Thick		SQM	
35	30	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	
36	1500	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	

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37	40	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	
38	60	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	
39		Providing, laying and finishing the top of floor / side walls with the following slabs/ tiles of required sizes and best quality over a bedding layer of cement mortar 1:4, 20 mm thick, finished with flush pointing in white cement using appropriate colour pigment etc. complete, at all levels all as per standard specifications.			
a	10	Cuddappah slabs 20 to 25 mm thick single side polished		SQM	
b	10	Marble slabs 16 to 18 mm thick, Adanga variety		SQM	
c	10	Granite slabs 16 to 18 mm thick – Steel Gray/P White		SQM	
d	10	Granite slabs16-18 mm thick- Gem red		SQM	
e	2350	Wall / Floor tiles of make Eurocon / Ultra or Equivalent		SQM	

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f	425	Shahabad slabs 20 to 25 mm thick, single side polished - Tandur green		SQM	
40	33	Providing weathering course on top of roof slab with 20 mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thickness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.		CUM	
41	440	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick and of approved brand & size, set in cement mortar 1:3 with an admixture of crude oil at 10% by weight of cement, 12 mm thick bedding layer including pointing the tiles with the same oiled mortar etc., complete, all as per standard specifications.		SQM	
42		Supply & fixing the following furniture 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.			
a	4	Hydraulic door closer - universal type ( Heavy duty)		EACH	
b	4	Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles		EACH	
c	8	D type Anodised Aluminium handle - 125 mm		EACH	
d	8	150 x 11/12 mm Anodized Aluminium tower bolt		EACH	
e	8	Hanging type door stopper		EACH	

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43	50	Providing and fixing aluminium two track sliding window with fixed aluminium grills using aluminium sections of size 60mm x 28mm x 1.20mm for outer frame, 38mm x 17mm x 1.20mm for shutter box and 38mm x 17mm x 1.20mm for interlock, aluminium deco grill design DG 202 or equivalent, 4mm thick plain glass for panes, PVC wheels, "U" rubber, screws, locking arrangements etc., complete, all as per instructions of Engineer-in-charge		SQM	
44	15	Providing and fixing in position of PTMT towel rail 600 mm complete with brackets fixed to wooden cleats with CP brass screws with concealed fitting arrangement of approved quality & colour. ( 600 mm long towel rail with total length of 645 mm, width 78 mm and effective height of 88 mm, weighing not less than 190 grams)		EACH	
45	10	Providing and fixing 600 x 450 x 5 mm beveled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete.		EACH	
46	25	Providing and fixing RCC precast perforated lawn drain cover slabs of 75 mm thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel & fabrication charges.		SQM	

47	2	Conveying from BHEL stores at PPPU - Thirumayam to site of work cutting to size and fixing in position of 75 x 75 x 6 mm or other size M.S angles in required lengths for forming the rebates in cable trench (for fixing the cable trench cover slabs) including welding in position of dowel bars to the angles and embedding the angle iron frame in the flooring concrete in proper line and level, all as per drawings and instructions of Engineer-in-charge. Rate includes loading, unloading, handling, welding and other incidental charges, preparing and supplying of DODL's for approval etc. complete, but excluding cost of M.S angles and dowel bars which will be supplied by BHEL Stores at Thirumayam at free of cost.		MT	
	2				
48	100	Fabrication and fixing in position of M.S inserts out of M.S plates, flats, rounds, angles etc., including necessary lugs made of rounds or flats, sizing and cutting to required lengths, threading, bolting and welding as required and placing the same in position in both plain and reinforced cement concrete members, including adjusting the shuttering if necessary, tying and holding to correct level and line. Rate includes cost of all materials, labour etc., complete but excluding raw steel sections which will be supplied by BHEL Stores at Thirumayam at free of cost.		KG	
49	165	Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. In MS rounds including washer plates. Bolts in all sizes and Lengths		KG	
50	200	Conveying all types & sizes of holding down bolts, nuts, washers etc. from BHEL Stores at PPPU Thirumayam to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.		KG	

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51	100	Hire charges for engaging earth moving machinery (poclain) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc.of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.		Hour	
52	575	Supply and fixing GI chain link having 4" x 4" opening - 12 gauge for fencing including unwinding the roll and fixing in proper position, with proper tension and alignment by means of MS flat of size 50 x 6 as stiffeners, drilled with necessary holes and fitted with RCC / MS fencing post by 1.5" x 3/8 " bolt and nuts with necessary washer etc complete . Payment will be made based on fenced area. Rate includes cost of GI chain link - 12 g , 1.5" x 3/8" bolt, nuts , washers all labour and all other incidental etc complete. Necessary MS flats will be supplied by BHEL stores at PPPU Thirumayam at free of cost . fabrication charges for MS flat and drilling of holes etc will be paid under separate item.		SQM	
53	45	Providing vertical drops, fins, facias etc., of 75 mm thickness with 1:2:4 cement concrete using 6 mm granite stone chips for inner core applied on chickenmesh and neatly plastered with cement mortar 1:4, 12mm thick on both faces, finishing, curing etc., complete. Rate includes cost of all materials and labour but excluding fabrication charges for reinforcement.		SQM	

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54	5	Providing, hoisting and fixing upto floor V level plain cement concrete elements like slabs etc. of 25 to 150 mm thick of required sizes in mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly. Rate includes centring, shuttering & finishing with neat cement punning on exposed surfaces but excluding pointing.		CUM	
55	8	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	
56	5	Encasing rolled steel sections in beams and columns in cement concrete 1:2:4 using stone aggregates of size 12 to 20 mm including centering, shuttering etc. complete but excluding cost of reinforcement & fabrication charges.		CUM	
57	165	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 to 10 mm gauge hard broken granite stone chips, finishing the surfaces smooth, rounding of corners, curing, providing borders etc., complete, all as per standard specifications. (Ellis pattern flooring)		SQM	

58		Providing and fixing in position of orissa pattern water closet of approved brand with integral type foot rests,suitable P or S trap and 10 litre capacity low level flushing cistern with fittings and flush pipe of approved brand etc. complete.			
a	5	580 mm size (White) (Parryware/Neycer/Cera)		EACH	
59		Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings & brackets, cutting and making good the walls and floors wherever required etc. complete.			
a	2	White glazed		EACH	
60	20	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	
61	5	Providing and fixing in position 100 mm dia C.P brass shower rose (tilting type) of approved brand with 15 or 20 mm dia inlet.		EACH	
62		Providing and fixing in position brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked)			
a	30	15 mm nominal bore.		EACH	

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b	5	20 mm Nominal Bore		EACH	
63		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	5	32 mm nominal bore		EACH	
c	20	40 mm nominal bore		EACH	
d	20	50 mm nominal bore		EACH	
64		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.		RM	
b	25	20 mm dia nominal bore.		RM	
c	25	25 mm dia nominal bore.		RM	
d	50	40 mm dia nominal bore.		RM	
e	50	50 mm dia nominal bore.		RM	
f	25	80 mm dia nominal bore.		RM	
g	25	100 mm dia nominal bore.		RM	

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h	25	150 mm dia nominal bore.		RM	
65		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	25	15 mm dia nominal bore.		RM	
b	25	20 mm dia nominal bore.		RM	
c	100	25 mm dia nominal bore.		RM	
d	25	32 mm dia nominal bore.		RM	
e	275	40 mm dia nominal bore.		RM	
f	275	50 mm dia nominal bore.		RM	
66		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	25	PVC Pipe 25 mm OD (10 kg/Sq.cm)		RM	
b	85	PVC Pipe 50 mm OD ( 6 kg/Sq.cm)		RM	

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67		Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc.			
a	85	PVC Pipe 75 mm OD		RM	
b	135	PVC Pipe 110 mm OD		RM	
68		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.			
	300	PVC Pipe 25 mm OD (6 kg/Sq.cm)		RM	
a	160	PVC Pipe 40 mm OD (6 kg/Sq.cm)		RM	
b	160	PVC Pipe 75 mm OD (6 kg/Sq.cm)		RM	
c	35	PVC Pipe 110 mm OD (6 kg/Sq.cm)		RM	
d	35	PVC Pipe 160 mm OD (6 kg/Sq.cm)		RM	
e	25	PVC Pipe 200 mm OD (6 kg/Sq.cm)		RM	
69		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	5	75 x75 x 75 mm single tee without door.		EACH	

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b	10	110 mm shoe		EACH	
c	10	110 mm bend		EACH	
d	2	110 x 110 x 110 mm single tee with door.		EACH	
70		Providing and fixing brass ferrule with CI mouth cover including boring and tapping the main :			
a	10	15 mm nominal bore		Each	
b	10	20 mm nominal bore		Each	
c	10	25 mm nominal bore		Each	
71		Providing and fixing gun metal non - return valve of approved quality (screwed end)			
a	10	25 mm nominal bore - Horizontal		Each	
b	10	25 mm nominal bore - Vertical		Each	
c	10	40 mm nominal bore - Horizontal		Each	
d	10	40 mm nominal bore - Vertical		Each	
e	10	50 mm nominal bore - Horizontal		Each	

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f	10	50 mm nominal bore - Vertical		Each	
72	15	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications.		EACH	
73	5	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.		EACH	
74		Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 & 1285, fixed with rawl plugs & screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stainless steel screws, all complete as per architectural drawings and instructions of Engineer-in-charge. (Glazing and panelling to be paid for separately)			
a	10	For shutters of doors, windows and ventilators including providing and fixing hinges / pivots and making provision for fixing of fittings wherever required including cost of PVC/ neoprene gasket required. (Fittings shall be paid for separately)		KG	

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75		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	5	With glass panes 4 mm thick		SQM	
76	10	Supply and fixing pre laminated (both sides) particle boards of 12 mm thick of approved brand ( Noavapan , Standard , or equivalent ) & 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.		SQM	
77	1	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 20/40 or Pidigrout 5M/10M or Flogrout 40/60 or Conbextra GP1/GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.		CUM	

78	10	Providing and fixing factory made ISI marked steel glazed doors, windows and ventilators side/top/centre hung with beading etc. complete of standard rolled steel sections, joints mitered and flash butt and sash bars tenanted and riveted with 15 x 3 mm lugs, 10 cm long, embedded in cement concrete blocks 15 x10 x 10 cm of 1:3:6 or with wooden plugs and screws or rawl plugs and screws or with fixing clips or with bolts and nuts as required, including providing and fixing of hinges, pivots, 4 mm plain glass panes with glazing clips and special metal-sash putty of approved make, handles, peg stays etc. complete including a priming coat of approved steel primer excluding the cost of metal beading and other fittings. Rate includes dismantling the masonry and making good all damages etc. complete.		SQM	
79		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	25	150 mm dia		RM	
b	25	300 mm dia		RM	
c	50	450 mm dia		RM	

80		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	2	Above 0.90 and up to 1.20 m depth		EACH	
b	2	Above 1.20 and up to 1.50 m depth		EACH	
c	2	Above 1.50 and upto 1.80 m depth		EACH	
81		Supply and fixing C.I cover with/without frame for manholes/gully traps.			
a	6	500 mm dia C.I cover with frame (Medium duty) Total weight of cover and frame to be not less than 116 K.G (Weight of cover 58 K.G and weight of frame 58 K.G)		EACH	

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82		Drilling of holes for the following dia. In Industrial Reinforced cement concrete floor or in machine foundation using power drilling machines in proper manner to a maximum depth of 200mm as per std. Specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer-in-charge. The required number of anchor bolts will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes, hire and running charges for machineries, tools and plants, loading, leading, conveyance and other incidental charges for fixing anchor bolts, cleaning the debris, etc. complete.			
a	10	10-14mm dia		EACH	
b	10	15- 18mm		EACH	
c	10	19- 23mm		EACH	
d	10	24- 28mm		EACH	
83	20	Supplying and fixing in position of aluminium louver ventilator of over all size 1.10 x 0.60m or thereabout using standard anodized aluminium sections of size 2½” x 1½” for frame conforming to IS 1948 of latest edition. The louvered glass panels shall be 5mm frosted glass panes. The ventilator should have 12 No. of louvers (6 x 2) fitted properly in aluminium frame work having arrangement to close/open. The rate quoted shall include cost of all materials, labour, fixing charges, locking arrangements etc., all as per standard specifications, drawing and code of practice and instructions of Engineer-in-charge		SQM	

84 a		<p>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 &amp; bottom rails, all frames covered with 5 mm thick heat moulded PVC- C channel to form 30 x 50 mm wide styles &amp; 75 mm wide top, lock &amp; bottom rail on either side &amp; 10 mm thick (2x 5mm) 20 mm wide cross PVC sheet as gap insert for top &amp; 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.</p>			
	10	Door with frame		SQM	
85	460	<p>Supply 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 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. The payment will be made for the actual laid area only.</p>		SQM	

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86	70	Supply 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 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. The payment will be made for the actual laid area only.		SQM	
87	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 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.		SQM	
88	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.		SQM	

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		Rate includes 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.			
89	10	Supply and fixing rolling shutters of approved make, made of 80 x 1.25 mm size M.S laths interlocked together through their entire length and joined together at end by end locks mounted on specially designed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation etc.complete including cost of providing and fixing necessary 27.5 cm long wire springs grade No.2 and M.S top cover of 1.25 mm thickness for rolling shutter.		SQM	
90	2250	Providing and laying sub base with sand & gravel in the proportion of 1 : 0.75 for specified thick on prepared sub grade in accordance with the requirements of the specifications. Rate includes cost of all materials to site of work, mixing in the required proportion, spreading, compacting, rolling with contractor's power roller, all labour, other incidentals etc., complete. Payment will be made only for the finished (compacted) quantum of work.		CUM	
91	225	Supply and fixing at site of work of PVC sheet of 400 micron thickness, spreading and laying carefully over the sub base as per standard specifications and instructions of Engineer-in-charge. Rate shall include cost of labour charges, conveying the material to site of work and other incidental charges etc., all as per standard specifications		SQM	
92	25	Supply, spreading and laying to proper line, level, camber and grade with granite stones of 40 to 50 mm sizes including sectioning to camber, rolling dry with power roller, all as per standard specifications. Rate includes cost of all materials, labour, contractor's power roller charges, etc. complete.		CUM	

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93	6500	Supply and fixing ornamental M.S grills wherever necessary including a priming coat. All according to our design and specification.		KG	
94	700	Boring, providing and installing cast in situ single under reamed vertical piles of 300 mm diameter & required length below grade beam/pile cap in M 35 cement concrete piles using 20 mm & down grade hard broken granite stone jelly with necessary reinforcement including bailing out water, mobilisation of necessary plants, equipments, materials etc. complete. Rate also includes cost of boring with bentonite solution, chiseling, cutting the pile to the required cut off level, leaving necessary dowel to grade beam/pile cap etc. all as per standard specifications and as directed by the Engineer-in -charge. (Length of pile for payment shall be measured up to the bottom of grade beam/pile cap. Rate excludes cost of cement, reinforcement steel & fabrication charges for reinforcement)		RM	
95		Collection from BHEL Stores at Trichy and Transporting reinforcement Steel , Structural Steel / tubular steel sections, Galvalume Sheets, accessories and cement etc., to PPPU project site at Thirumayam. Quoted rate shall include all charges for loading, unloading, hire charges for vehicle and all other incidental charges etc complete			
a	10	Part or full load up to 10 MT		LOAD	
b	10	Above 10 MT (on pro rata)		MT	
96	10	Assisting BHEL officials in up keeping Field hostel & the site office at the project site by deploying required man power for the working hours not less than 8 hours / day as per the instructions of Engineer in-Charge. Payment will be made on monthly basis including holidays declared by BHEL as per minimum wage act in force.		Per Month	

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## SCHEDULE 'B'

1. The following materials will be issued FREE of cost to contractor at PPPU 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
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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
		Layout of LPG Plant
		Layout of canteen building

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

<b>Sl.No</b>	<b>Name of Material</b>	<b>Name of Source</b>	<b>Lead Particulars</b>
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 02 / 12**

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

Tender Schedule No. **T -17 / 12**

**Item rate tender for work required Construction of sheds, RCC buildings ,oil storage tank, LPG plant related works and other Infrastructural works for PPPU- BHEL near 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 SR. MANAGER / CIVIL /TOWNSHIP Bharat Heavy Electricals Limited Unit, Thiruverumbur, Tiruchirappalli – 620 014, **up to 09.30 hrs. on 06.07.12** addressed to the 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. Manager/Civil/ Township  
Bharat Heavy Electricals Limited  
Unit : Tiruverumbur  
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the **Construction of sheds, RCC buildings , oil storage tank, LPG plant related works and other Infrastructural works for PPPU- BHEL near Thirumayam.**

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

..... 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 .....