

# **Bharat Heavy Electricals Limited**

**High Pressure Boiler Plant  
Tiruchirappalli – 620 014. India**

**Civil Engineering Department (Township)**

## **TENDER DOCUMENT (PRICE BID)**

**Name of work** : Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai

**Value of work** : Rs. 125 Lakh

**Tender Notice No.** : Township 02 / 11

**Tender Schedule No.** : T 08 / 11

**Period of Contract** : 3 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 : Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai
02. Estimated Cost : **Rs. 125 Lakh**
03. Earnest Money Deposit : **Rs.2,00,000/-**
04. Completion Time : **THREE ( 3 ) 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 21.05.2011**
07. Date of Tender Opening : **10.00 Hrs. on 21.05.2011**
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 **110** pages in Qualification Bid and **27** 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**

## 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, BOCW cess 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 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, 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.
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 :** Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai

### ESTIMATED COST : Rs. 125 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 **21.05.2011** 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 **19.05.2011** 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 / 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 contractor is required to carry out the work inside the occupied quarters with least disturbance to the occupant and the total work in the quarters is to be completed on the same day. The contractor is required to inform the occupant atleast one day in advance, plan the work accordingly and collect the feedback slip from the occupant immediately on satisfactory completion of the work.
23. 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**

**CONTRACTOR**

**8**

**ACCEPTING OFFICER**

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

**CIVIL ENGINEERING DEPARTMENT (TOWNSHIP)**

**PREAMBLE**

1. The scope of work includes Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai
2. 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.
3. 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 3 **months**, the works shall be completed progressively and handed over as per agreed split up schedule.
4. The tenderers are advised to visit the plot area at Pallikaranai in Chennai and get themselves acquainted with the site conditions before submitting the offer
5. The following eligibility criteria shall be complied to fulfill the Qualification Bid:-
6. The tenderer should have EPF, PAN, New Service Tax Registration No., proof of having submitted IT return for the last three years, Profit & Loss account and balance sheet certified by the auditor.
7. Average annual financial turnover in Civil construction work in the last three years should be Rs.38 lakh .
8. During last seven years, should have successfully completed works either
  - i. Three civil works each not less than Rs. 50 lakh.
  - or
  - ii) Two similar works each not less than Rs. 63 lakh.
  - or
  - iii) One similar work not less than Rs. 100 lakh
9. Latest Solvency (within 6 months) from the banker shall be produced for at least Rs. 50 lakh .
10. The works executed in the own name of the tenderer only will be considered for eligibility criteria.
11. Dissimilar / irrelevant works will not be considered for eligibility criteria.
12. 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.
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 3 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, BOCW cess, 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 including free issue materials incorporated in the work, the same will be reimbursed on production of valid document proof for having paid service tax by the contractor.**
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. 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. 14 to 19)**
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. Further the contractor has to furnish 50 % of security deposit before signing of agreement and commencement of work.**
23. The contractor should mobilise adequate number of earth moving machineries like Hydraulic Excavator, Poclain, Doser, Tipper, Road Roller, JCB, Pile driving machineries etc., 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
  1. Precise Leveling instruments and theodolite.
  2. Inter carting vehicle
24. The contractor has to arrange sufficient number of lorries / Tippers to collect & transport the earth to the site for speedy execution..
25. 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%.

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 wherever necessary shall be submitted by the contractor in the last week of every month or as required by the department 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 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:
 

a. Site in-charge / Construction Manager	-	1 No.
b. Civil Engineer (Graduate in Civil Engineering)	-	1 No.
c. Supervisor/Engineer (Diploma Holder)	-	2 Nos.
34. 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.
35. 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.
36. The contractor shall follow norms of BHEL security system for movement of men & materials within the complex.
37. 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.
38. 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.
39. All the works shall be executed as per the standard specifications as provided in TNBP / BIS.

40. If 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.
41. All materials and consumables brought by the contractor should have manufacturer's certificate.
42. 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.
43. 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.
44. 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.
45. 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.
46. 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.
47. 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.
48. The Contractor will have to make his own arrangements for water & electricity required for construction activities without any extra claims.
49. 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.
50. 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.
51. Bank Guarantee format can be obtained after award of work in case of successful tenderer.
52. No advance / mobilization advance will be given.
53. LD / Penalty clause is applicable as per General Conditions of Contract in force.
54. 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.
55. 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.

## SCHEDULE 'A'

### LIST OF WORKS AND PRICES

**NAME OF WORK :** Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai

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>Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai</b>	<b>1,25,00,000/-</b>	<b>(Rupees one crore and twenty five lakh only)</b>	<b>THREE (3) 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 05 PAGES

FROM SERIAL No. **14 to 19**

**CONTRACTOR**

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**ACCEPTING OFFICER**

BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHIRAPPALLI – 14  
**BILL OF QUANTITIES**

**Name of Work:**-Filling & levelling the plot area including pile foundation, retaining wall, approach culvert, road and related works for piping centre, BHEL at Pallikaranai in Chennai.

Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
1		Boring, providing and installing cast in situ single under reamed vertical piles of for all depths specified diametre & 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, chisseling, 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 upto the bottom of grade beam/pile cap. Rate excludes cost of cement, reinforcement steel & fabrication charges for reinforcement)			
A	570	450 mm dia piles		RM	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
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 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	340	All kinds of soil except rock		CUM	
B	100	Ordinary rock		CUM	
3	43	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.		CUM	
4		Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering.			
A	43	1:4:8 with graded stone aggregate 40 mm nominal size.		CUM	
5		Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level.			
A	50	Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.		SQM	
B	150	Walls (any thickness) including attached pilasters, plinth, stairs, chimneys, shafts and string courses etc.		SQM	
C	450	Lintels, beams, plinth beams, girders, bressumers and cantilevers		SQM	

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Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
D	150	Columns, pillars, piers, abutments, posts and struts.		SQM	
E	50	Shuttering in circular work		SQM	
F	150	Suspended roof ,landing ,access platform		SQM	
6	30	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	
7		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 for all heights.			
A	288	RCC 1:1.5:3 with graded stone aggregate 20 mm nominal size .		CUM	
8		Random rubble masonry in foundation and basement for all height in the mix given below including simultaneous flush pointing, all as per standard specifications.			
A	725	Cement mortar 1:5		CUM	
9	14900	Supply of good earth from all distance including filling the earth (excluding rock) in the low lying plot area in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, rolling with power roller upto formation good base etc. complete. The rate shall include cost of earth, loading, leading conveyance for all distance, rolling with power roller and mechanical earth rammer wherever required to achieve recommended compaction. The payment will be made based on pre level and post level measurements.		CUM	

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Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
10		Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth for all heights			
A	95	Cement mortar 1:5		CUM	
11		Plastering with cement mortar as per standard specifications. for all heights			
A	1700	In Cement mortar 1:5, 15mm thick		SQM	
A	850	In Cement mortar 1:5, 12mm thick		SQM	
12	515	Providing laying compacting wet mix macadam (WMM) with clean, crushed , graded aggregate and granular materials and finished in accordance with the requirements of the specification (MORTH 406) and thickness as per approved plans or as directed by the Engineer.		CUM	
13	86	Providing 50 mm consolidated thick bituminous macadam over bituminous surface using IRC grade metal of 0.35 CUM of 25 to 11.20 mm, 0.21 CUM of 11.20 to 6 mm & 0.14 CUM of 6 mm and below for 10 SQM with 40 kg of bitumen for premixing, including handling charges at CMP site, labour for loading the bitumen in bitumen tank and metal to feed units, labour for attending to paver site, heating & mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix by tipper to paver site, spreading the mix in required temperature & thickness with mechanical paver to the specified grade and cross section, consolidation by power roller to get the required density, including hire charges for CMP, paver finisher, tipper, power roller, bitumen boiler, all other tools and plants, incidental charges such as barricading, provision of danger lights etc., complete. Rate includes cost of metal, bitumen, hire and running charges for tools and plants and all other incidentals etc., complete. Payment will be made on pre level & post level measurements.		CUM	

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Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
14	43	Providing semidense carpet of 25 mm consolidated thickness using machine crushed IRC size HBG metal 0.10 CUM of 13.2 mm, 0.16 CUM of 11.2 mm and 0.11 CUM of 5.60 mm and below for 10 SQM with 31 kg of bitumen for premixing for 10 SQM of 25 mm consolidated thickness of semidense carpet including cost of bitumen, handling charges, labour for loading the bitumen in bitumen tanks and metal in feeder unit, labour for attending paver units, heating & mixing the bitumen and metal to the required temperature in the central hot mix plant, conveying the mix from CMP site to work site by tipper, spreading by the paver finisher to the required grade and cross profile and consolidation by power roller, hire and running charges for CMP, paver finisher, tipper, power roller, bitumen boiler and all other tools and plants etc., complete. Rate includes cost of metal, bitumen, labour, hire and running charges of tools & plants, barricading arrangements, danger lights etc., complete. Payment will be made based on pre level & post level measurements.		CUM	
15		Providing and applying tack coat including heating the bitumen in boiler, labour for preparing the surface, spraying the bitumen as tack coat, hire & running charges for all tools & plants & all other incidentals etc. complete.			
A	1710	Over WBM surface using 4 K.G of bitumen emulsion per 10 SQM area.		SQM	
B	1710	Over bituminous surface using 2.5 K.G of bitumen emulsion per 10 SQM area.		SQM	
16	855	Applying one coat of Cement primer of approved brand on wall surfaces as per standard specifications		SQM	
17	855	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.  Two coats		SQM	

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**ACCEPTING OFFICER**

Sl. No	Quantity	Description of work	Rate in figures and Words in Rs	Unit	Amount in Rs
18	50	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	
19	250	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	
				<b>Total</b>	_____

Rupees .....only

**NOTE:-**

1. Service Tax will be extra if applicable for this contract. Service Tax paid by the contractor with respect to this work will be reimbursed by BHEL on production of documentary evidence for having paid the service tax.
2. The period of contract is Three months. The contractor is required to plan accordingly and complete the work in time.
3. The contractor has to comply with the provisions of "Building and other construction workers act 1996 (Regulation of Employment and condition of services) . The contractor has to bear 1 % cess towards BOCW act 1996 for the total value of the contract. The contractor is required to deposit the cess, within one month / before raising subsequent running bill (whichever is earlier) ,for the payment received from BHEL and submit the documentary evidence after which only BHEL will process the subsequent running bill for payment.

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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.

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<b>Sl.No.</b>	<b>DESCRIPTION</b>	<b>PLACE OF ISSUE</b>
<b>01</b>	<b>Cement</b>	<b>Site of work</b>
<b>02</b>	<b>Reinforcement Steel</b>	<b>Site of work</b>
<b>03</b>	<b>Structural Steel</b>	<b>Site of work</b>

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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 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.
5. 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.
6. 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.
7. 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
1		Layout of plot area

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

<b>Sl.No.</b>	<b>Name of Material</b>	<b>Name of Source</b>	<b>Lead Particulars both for Factory and Township</b>
	-----NIL-----		

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

### AUTHORITY TO TENDER

Tender Notice No. **Township - 02/ 11**

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

Tender Schedule No. **T- 08 / 11**

**Item rate tender for work required in Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai**

DETAILS & QUANTITIES of each item

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.GEN. MANAGER / CIVIL /TOWNSHIP Bharat Heavy Electricals Limited Unit, Thiruverumbur, Tiruchirappalli – 620 014, **upto 09.30 hrs. on 21.05.2011** addressed to the Sr.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 Addl. General Manager/Civil/ Township  
Bharat Heavy Electricals Limited  
Unit : Tiruverumbur  
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carryout the **Filling and leveling the plot area including pile foundation, retaining wall, approach culvert, road and related works for Piping Centre, BHEL at Pallikaranai in Chennai**

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 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 sold 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.....

.....  
.....

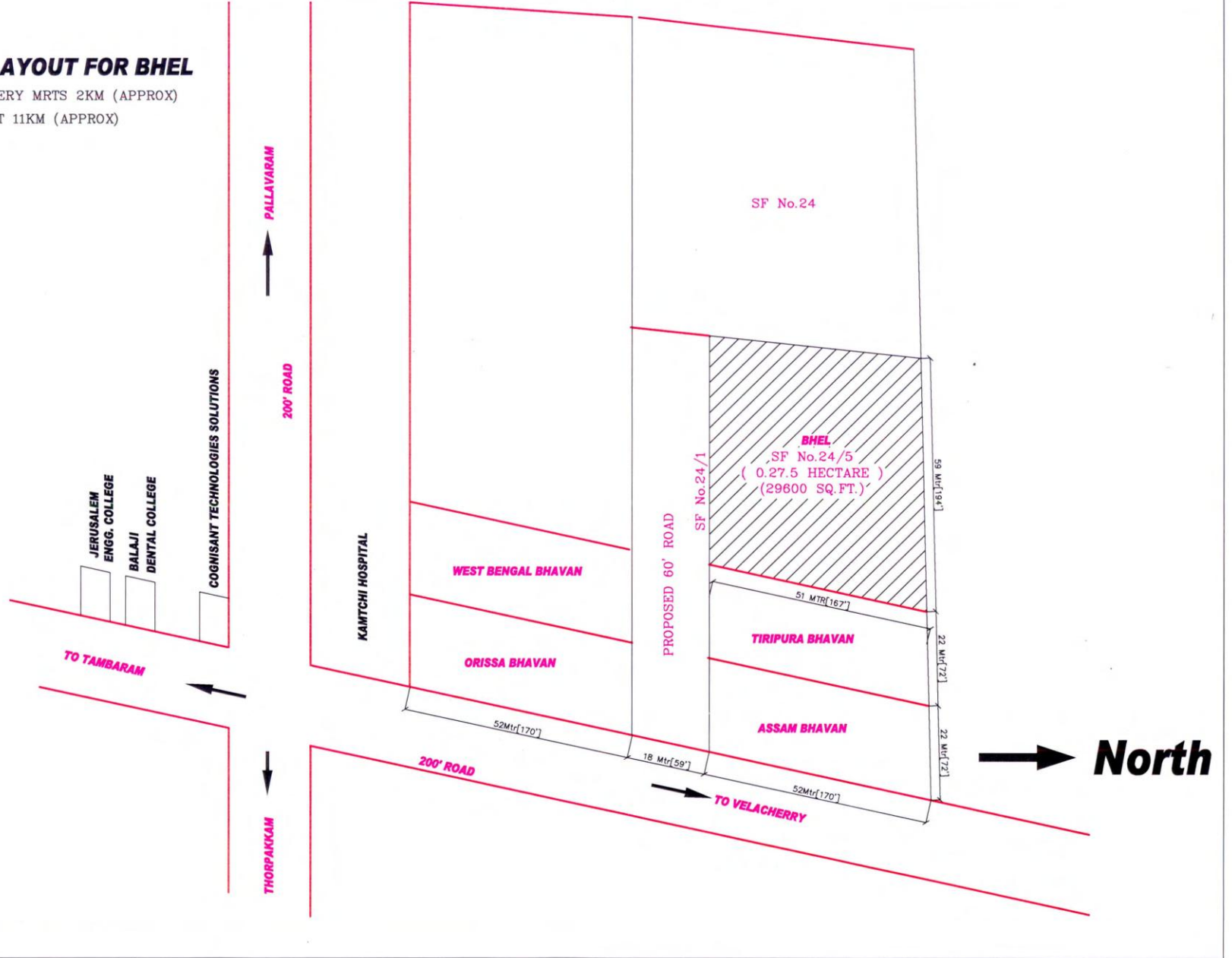
.....at the percentage rates as indicated in Schedule 'A'.

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

Designation .....

**PROPOSED SITE LAYOUT FOR BHEL**

- 1. DISTANCE FROM VELACHERY MRTS 2KM (APPROX)
- 2. DISTANCE FROM AIRPORT 11KM (APPROX)



CONTRACTOR

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ACCEPTING OFFICER