

# **Bharat Heavy Electricals Limited**

**High Pressure Boiler Plant  
Tiruchirappalli – 620 014. India  
Civil Engineering Department (Factory)**

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

**Name of work** : Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy.

**Value of work** : Rs.25.96 Lakhs + Applicable service tax

**Tender Notice No.** : CF:TN:025/16-17

**Tender Schedule No.** : CF:TS:048/16-17

**Period of Contract** : 6 (Six) Months

**EMD** : Rs 52,000.00/-

**Issued to** :

**BHARAT HEAVY ELECTRICALS LIMITED**  
**TIRUCHIRAPPALLI – 620 014**  
**CIVIL ENGINEERING DEPARTMENT (FACTORY)**  
**PREAMBLE**

01. The scope of work includes **Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy** .The scope also includes excavation of trenches, laying of HDPE pipes, specials, including aligning, jointing, testing, construction of valve chambers, dismantling of existing pipelines, refilling, etc., complete.
02. Time is the essence of the contract. Being a time bound improvement works the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **6 (Six) months**, the laying of pipe line shall be completed progressively and handed over as per agreed split up schedule.
03. The tender value excludes cost of HDPE pipes, cement which will be supplied by BHEL at Stores at free of cost as indicated in Schedule B of the Tender document.
04. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by  $\pm 20\%$  (twenty percentage).
05. **Quoted rate for all items shall be firm throughout the contract period of 6 (Six) months including extended period if any and no cost escalation is allowed on any account.**
06. 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.
07. **The item rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete.**
- The rate quoted shall not include service tax. However the service tax as applicable for this contract work can be claimed from BHEL along with their monthly bills for further payment to be made to the authorities concerned. The contractor has to submit the service tax payment challan as a documentary proof of having paid the service tax for the previous bill for which he has received the service tax payment along with the subsequent bill for which payment has to be processed.
- The L1 position based on the quoted values ( subject to calculations) excluding service tax, will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the service tax criteria for the vendors who had participated in the tender. In case of exemption from the payment of service tax, the contractor has to submit a declaration along with necessary documents to substantiate the declaration.
08. The tenderers are advised to visit BHEL Factory at Tiruchirappalli and get themselves acquainted with the site conditions before submitting the offer.
09. 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.
10. The tentative/expected percentage breakup for various nature of works to be executed are indicated below for guide lines. However this will not be a binding one and this may vary according to the necessity at the time of execution. Any claim by the contractor will not be entertained on this aspect on any account.

Civil works (including maintenance nature of work)	10 %
HDPE Pipe line work	90 %
Road maintenance works	--
Structural steel & cloaking works	--
Structural steel painting, white washing, colour washing etc.	--
Water supply, Railways, Interior Decoration, Horticulture & all other Miscellaneous works.	--

11. The work shall be carried out as per drawings released then and there, 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. (From page No. 11 to 13) of Price bid.**
12. 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.
13. The percentage rate offered is for finished item of works and shall provide for the complete cost towards, fuel, tools, tackles, plant & machinery, temporary works, labour, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colony, Establishment, services, revenue expenses, overheads, profits & all other incidentals etc., complete.
14. **New Taxes / Levies**  
In case the Government imposes any new levy / tax on the output service / goods / work after award of the contract, the same shall be reimbursed by BHEL at actual. In case any new tax / levy / duty etc. becomes applicable after the date of Bidder's offer, the Bidder / Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same **before opening of Price Bid**. Claim for any such impact after opening the Price Bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
15. After award of work the contractor has to furnish the security deposit, as per Clause 13 of Tender Notice, attached in the Tender Document. 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.
16. For any clarification on the tender document, the bidder may seek the same in writing or through email, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
17. The contractor should bring the construction earth moving machineries like Excavator, 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 kept at site for the works always.
- a) Precise Leveling instruments
  - b) Inter carting vehicle (tractor, hand trolley etc)
  - c) Welding machine etc.(Automatic butt fusion welding machine)
18. 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.
19. In the event of any conflict between requirement of any clause of this specification / documents / drawings / data sheets etc. or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error / missing pages / other clerical errors in the tender documents, noticed must be pointed out before submission of offer, else BHEL's interpretation shall prevail.
20. **Order of Precedence**  
In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:
- a. Amendments / Clarifications / Corrigenda / Errata etc issued in respect of the tender documents by BHEL
  - b. Notice Inviting Tender (NIT)
  - c. Price Bid
  - d. Qualification Bid
  - e. General Conditions of Contract
21. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
22. **The following eligibility criteria shall be complied to fulfill the Qualification Bid:-**

- A) **The tenderer should have ESI, EPF, PAN, Service Tax Registration No., proof of having submitted IT returns acknowledged by IT office, Profit & Loss account and balance sheets certified by the auditor for the three financial years (2013-14, 2014-15 & 2015-16)**
- B) **Average Annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.**
- C) **Experience of having successfully completed similar works during last 7 (Seven) years ending last day of month previous to the one in which applications are invited should be either of the following**
  - i) **Three similar completed works costing not less than the amount equal to 40% of the estimated cost.**  
(or)
  - ii) **Two similar completed works costing not less than the amount equal to 50% of the estimated cost.**  
(or)
  - iii) **One similar completed work costing not less than the amount equal to 80% of the estimated cost.**

**Similar work means CIVIL- Water supply and other PIPELINE LAYING WORKS**

- D) **Latest Solvency certificate (obtained within 6 months from the date of tender opening ) from Nationalised / Scheduled Bank shall be at least for a value of 40 % of the estimated cost.**
23. Documentary evidences (Xerox copies – Gazetted officer attested & self-attested) for turnover, works experience, EPF, ESI, Service tax and Balance sheet ,Profit & Loss account & IT returns for the last three years etc., all as required & indicated in the tender document should be furnished, without which it will not be taken into account. The tenderers shall produce original document for verification if so decided by BHEL.
  24. 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.
  25. Exclusive lorries to be deployed on daily basis to clear the debris generated and on no account the debris can be left for more than three days. Otherwise BHEL would clear the debris at the contractor's risk and cost.
  26. The contractor may be required to undertake works at remote places and in such cases the contractor should make own arrangement for safety of BHEL materials, water required for the work and power etc without extra claim from BHEL.
  27. 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%.
  28. The contractor has to carryout the work in production shops without affecting the production by planning such work on holidays / obtaining proper shut down.
  29. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
  30. 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 / tenderer to ascertain the nature of work relating to similar works before qualifying.**
  31. The contractor shall strictly adhere to various labour laws in force.

32. The tenderer has to ensure payment of Minimum Wages as per Tamil Nadu State Minimum Wages as applicable under law from time to time.

The labourers engaged in this contract shall be paid additional payment as mentioned below in addition to the payment of Minimum wages as stated above.

- |                                |                    |
|--------------------------------|--------------------|
| a) Unskilled Worker            | Rs. 3200 per month |
| b) Semi-skilled Worker         | Rs. 3700 per month |
| c) Skilled Worker / Supervisor | Rs. 4100 per month |

Also the labourers shall be paid a minimum bonus which shall be 8.33% as per the payment of Bonus Act 1965 for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.

The Contractor shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.

At present the Tamil Nadu State Government Minimum wages declared is enclosed for your reference ( Ref. Page No.12 ). Normally the revision will be with effect from 1<sup>st</sup> April of every year. Tenderers are requested to quote their offer after taking into account of the above factor also.

**"The contractor has to disburse the salary/wages for their workmen preferably through Bank. If wages are paid through Banking channel, the relevant Bank statement/proof for Bank payment should also be produced along with PF and ESI challans to Welfare Section every month."**

33. The contractor shall follow norms of BHEL security system for movement of men including bio-metric system & materials within the complex.
34. The offers of the tenderer / bidders who are on the banned list and also the offer of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site ([www.bhel.com](http://www.bhel.com) ---> Tender Notification - List of Banned Firms )
35. 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 wherever required at his own cost.
36. BHEL reserves its right to reject the offer on account of unsatisfactory past performance by the present tenderer / his group / group of companies / any member in the consortium in case of consortium in another project / sister unit awarded under different enquiry. The tenderer has to declare the facts of performance with his customers and their contact details with phone & e-mail ids in his letter head. BHEL reserves its right to cancel the tender without assigning any reason.
37. Bank Guarantee format and the list of consortium banks are enclosed for BG submission against Security Deposit
38. Tenderers are requested to furnish the duly filled in E format (attached as separate in the Qualification Bid) sheet along with a cancelled cheque leaf to accept Electronic Fund Transfer / R T G S transfer for any payment from BHEL, Trichy.
39. 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.
40. 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.
41. 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.
42. The contractor should establish his own site office, labour colony, fabrication yard, handling facility, storage facility etc., for which vacant land will be allotted on specific request for which the rent will not be collected.
43. 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.
Supervisor/Engineer (Diploma Holder)	-	NIL.

In addition to the above, qualified Safety Engineer should be deployed at site to ensure the working safety at site.

44. 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.
45. 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.
46. Exclusive Stores personnel should be engaged who would co ordinate with department official for clearance and collection of BHEL supplied materials required for works.
47. Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of Factory Complex.
48. 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.
49. 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.
50. All the works shall be executed as per the standard specifications as provided in TNBP / BIS and special specifications of manufacturer of HDPE pipes & specials.
51. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
52. All the materials to be used in the work and the nature of work shall conform to the respective TNBP & BIS and National Building Organization, 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.
53. The contractor should maintain proper accounts for cement, HDPE PIPES and other materials if any supplied by this organization and these should be available at the site of work for verification and check by the Officials of this Organization at any time.
54. 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.
55. All tools and plants including jack hammer with silencer & bits, rock drilling machine, etc., required for all the works covered under this contract will have to be brought by the contractor. Compressed air alone will be provided at viable locations at free of cost by BHEL. From that point the contractor has to provide further arrangements for site works.
56. 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.
57. **The contractor should use only the materials of brand and quality as approved by BHEL.**
58. All materials and consumables brought by the contractor should have manufacturer's certificate.
59. 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 plats, materials, etc., brought inside the factory complex.

60. 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.
61. 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.
62. 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.
63. On the written request from the contractor **Water required for the work may be provided by this organization at only one point at the site of the work at free of cost.** In case of failure of water supply, the Contractor will have to make his own arrangements for water without any extra claims until supply is restored. BHEL does not accept any liability whatsoever for non-supply or delay in the supply of water under any circumstances. The contractor shall ensure that there is no wastage of water otherwise supply of water is liable to be stopped at contractor's risk and cost.
64. **Bank Guarantee format can be obtained after award of work by the successful tenderer.**
65. No advance / mobilization advance will be given and the part-payment or advance for raw materials brought by the successful tenderer will not be paid. The payment for the finished items of works only will be paid after incorporating the required raw materials into the work, if any.
66. No Over Run Charges shall be applicable under any circumstances.
67. LD/Penalty clause is applicable as per General Conditions of Contract. All the terms & conditions in the documents are binding on the tenderers.
68. BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of any contract at another project / Unit awarded against a different enquiry.
69. In all matters of dispute, the decision of General Manager, BHEL, Tiruchirappalli – 620 014 is final and binding on the successful tenderer.
70. Any claim or dispute arising from the tender stage, till/after completion of the work under the terms and conditions stipulated in the tender document/contract agreement shall only be enforced or settled in the courts at Tiruchirappalli, TamilNadu only.
71. **Force Majeure clause:** If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by BHEL subject to prompt notification by the tenderer to BHEL of the particulars of the events and supply to the BHEL if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.
72. The correspondence exchanged against the tender from both tenderer and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.
73. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.
74. In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be binding on both the parties to the business.

75. Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any ongoing tenders even if participated till the hold is officially lifted and confirmed in writing.
76. The contractor shall ensure compliance of EPF&MP Act 1952, by the subcontractors , if any engaged by the contractor
77. If, in case of opening of price bids, when there is a Tie in the percentage rates quoted by the tenderers, the ranking will be decided based on Lot System, in the presence of the bidders who witness the price bid opening.
78. MSE vendors can avail EMD / Tender Document cost waiver benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format shown below). **Tenders without EMD / Tender Document cost / MSME proof will be summarily rejected.**

**Certificate by Chartered Accountant on letter head**

This is to certify that M/s. \_\_\_\_\_ (hereinafter referred to as "company") having its registered office at \_\_\_\_\_ is registered under MSMED Act 2006, (Entrepreneur Memorandum No (Part II)) \_\_\_\_\_ dtd. \_\_\_\_\_, Category :\_\_\_\_( Micro/Small). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the latest audited financial year \_\_\_\_\_ as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No. S.O.1722(E) dated October 5, 2006):  
` \_\_\_\_\_ Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act 2006):  
` \_\_\_\_\_ Lacs

**(Strike off whichever is not applicable)**

The above investment of ` \_\_\_\_\_ Lacs is within permissible limit of ` \_\_\_\_\_ Lacs for \_\_\_\_\_ Micro / Small (Strike off which is not applicable) Category under MSMED Act 2006.

Or

The company has been graduated from its original category (Micro / Small) (Strike off which is not applicable) and the date of graduation of such enterprise from its original category is ..... (dd / mm / yyyy) which is within the period of 3 years from the date of graduation of such enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:  
(Signature)  
Name:  
Membership number:  
Seal of Chartered Accountant  
Place:  
Date:



**BHARAT HEAVY ELECTRICALS LIMITED**  
TIRUCHIRAPPALLI - 14  
**HUMAN RESOURCE MANAGEMENT**

**CIRCULAR**

No. BHEL: HR: WEL: MW

Date: 31.03.2016

**ALL CONTRACT EXECUTING/AWARDING OFFICIALS**

- Sub. : Minimum Wages Act 1948 – Fixation of Minimum rates of wages for the employment in “General Engg. and Fabrication Industry” – Revision of DA – Reg.  
Ref. : Notification No. Z3/9329/2016 dated 24.03.2016 from the Commissioner of Labour, Chennai.600 006

Consequent upon the increase in Dearness Allowance payable under the Minimum Wages Act from Rs. 4575.00 to Rs.5196.00 per month to those employed in “General Engineering and Fabrication Industry”, the Minimum Wages payable by the Contractors to their workmen engaged in the following categories would be as follows with effect from 01/04/2016:

Sl. No.	Category	Minimum Basic Wages per day	Minimum DA per day	Total Minimum Wages per day	Minimum Basic Wages per month	Minimum DA per month	Total Minimum Wages per month
1	Unskilled Worker	Rs.123.00	Rs.200.00	Rs.323.00	Rs.3690.00	Rs.5196.00	Rs.8886.00
2	Semi-Skilled Worker	Rs.133.00	Rs.200.00	Rs.333.00	Rs.3990.00	Rs.5196.00	Rs.9186.00
3	Skilled Worker	Rs.139.00	Rs.200.00	Rs.339.00	Rs.4170.00	Rs.5196.00	Rs.9366.00
4	Supervisor				Rs.3956.00	Rs.5196.00	Rs.9152.00

Contract Awarding / Executing Executives are requested to ensure that the contractors make payment to their workers not less than Minimum Wages as stated above.

**SDGM (HR-Welfare and Recruitment)**

**Cc:**

All HR Executives  
Sr.Manager/HR/PC/Chennai  
Sr.Manager/HR/PPPU/Thirumayam  
AGM/Finance  
GM/Finance  
AGM/HR  
GM/HR

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

**SCHEDULE - A**

**Name of Work: Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy.**

I / We \_\_\_\_\_ have read the condition of tender attached hereto and agree to abide by such conditions. I/We offer to execute the works in **T.S No. CF:TS:048/16-17 for a period of 06 (Six) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended **below from Page 11 to 13**

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I/We bind myself/ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me/us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to **Rs.52,000/-** lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

I / We further agree to include all tools & plants and consumables required for the work in my / our scope but required power and water will be provided at one point by BHEL at free of cost and based on this, we have quoted our percentage.

**Note:** Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. 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 overall percentage quoted by the contractor **Below (100-X) % / At par (100%) / Above (100+X) %** of the rates provided in Bill of Quantities appended below from **Page 11 to 13.**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 11 to 13	
		In Figures	In Words
1.	<b>Rs.25,96,412.20</b>  <b>= 100%</b>		

**Note: BHEL estimate rates are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 10 both in figures and in words.**

**BHEL / TRICHY-620 014  
CIVIL ENGINEERING DEPARTMENT-FACTORY**

**BILL OF QUANTITIES**

**Name of work : Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy.**

**0**

<b>Sl. No</b>	<b>QTY</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (Rs.P)</b>	<b>Amount (Rs.P)</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	20.00	Bituminous Road	CUM	<b>380.64</b>	<b>7612.80</b>
b	20.00	WBM/WMM	CUM	<b>235.95</b>	<b>4719.00</b>
c	20.00	Plain Cement Concrete.	CUM	<b>391.72</b>	<b>7834.40</b>
d	20.00	RCC works including stacking of steel bars by manual/mechanical means.	CUM	<b>927.77</b>	<b>18555.40</b>
2	8000.00	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth up to 30 cm measured at a height of 1 metre above ground level and removal of rubbish up to a distance of 50 metre.	SQM	<b>4.55</b>	<b>36400.00</b>
3		Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes <b>bailing or pumping out water during excavation due to subsoil water, rain etc.</b>			

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
a	2160.00	All kind of soil except rock	CUM	140.03	302464.80
b	240.00	Ordinary Rock	CUM	224.47	53872.80
4	200.00	Supply and filling with river sand in foundation, plinth, under floor etc.including watering, ramming, consolidating and dressing complete.	CUM	508.88	101776.00
5	2400.00	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	79.83	191592.00
6	80.00	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. <b>0 to 1 KM</b>	CUM	115.35	9228.00
7	50.00	Supply RCC pipes (NP2 Class) of <b>600 mm dia</b> 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.	RM	1333.60	66680.00
8	50.00	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of factory premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, leveling etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety precautions. Payment will be made on trip basis with a lorry load of minimum 300 cft ./ Trip. <b>2-3 KM</b>	EACH	888.46	44423.00
9	50.00	Hire charges for engaging earth moving machinery (Hydraulic Excavator) 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	1112.98	55649.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
10	2000.00	Laying HDPE pipes of PE 100 with pressure rating of PN 10 with suitable fittings and specials such as tees, bends, reducers, caps etc., and <b>joining them</b> wherever required by fusion butt welding using automatic superior quality butt fusion welding machines, other tools and plants for holding arrangements during welding, to correct line, level, alignment etc., complete The quoted rate shall include cost of loading, transportation, unloading and lowering into trenches at site , jointing of fittings and specials with necessary flanges and fusion welding. The rate also includes hire charges for the fusion butt welding machine, tools and plants required for jointing and Pressure testing as per standard norms and all as per standard specifications and instructions of Engineer-in- charge. The rate quoted excludes cost of pipes and specials which will be supplied by BHEL at free of cost from stock yard. Earth work and refilling will be paid under separate items. <b>355mm dia (OD)</b>	RM	810.00	1620000.00
11	5.00	Jointing HDPE pipe line with existing CI/HDPE pipe lines to match both the existing and new pipe lines with suitable specials such as flanges, tees, bends, tapers etc., complete. Rate to include cost of supply of <b>HDPE flanges / slip on flanges</b> of required sizes with standard holes confirming top relevant BIS and of approved brand as directed by the department and to match with CI pipes and specials like tees, bends, tapers etc., jointing materials like bolts, nuts, rubber insertions jointing with fusion welding wherever required but excluding cost of earth work excavation and refilling which will be paid separately under respective items. This item is applicable for all joints at junctions, crossings, bends and change in diameters. <b>355mm dia (OD)</b>	EACH	15121.00	75605.00
<b>GRAND TOTAL (Applicable service tax extra)</b>					<b>25,96,412.20</b>

## SCHEDULE 'B'

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

Sl.No.	DESCRIPTION	PLACE OF ISSUE
1	Cement	BHEL STORES or Stock yard
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL STORES or Stock yard
3	HDPE pipes & specials	BHEL STORES or Stock yard
4	Cast iron pipes & specials including pig lead for jointing	BHEL STORES or Stock yard

2. It will be the responsibility of the Contractor to submit his demands for the above stores in writing atleast seven days in advance of the actual requirement.
3. Issue of Stores is subject of the availability at the place of issue cited above, items of stores to be issued by BHEL which are not available at the time of indenting by the contractor may be supplied by BHEL after necessary procurement. The contractor shall not be entitled to any claim of compensation for delay in the supply of stores by BHEL under any circumstances.
4. The materials will be issued only during the working hours of the BHEL Stores Department ( 8.00 a.m. to 4.30 p.m. ). Contractor shall have to transport them to the site of work at his own cost as soon as they are issued to him.
5. The steel materials if issued will be in random lengths and sizes as stocked by the BHEL and the cost of all cutting, conversion, substitution and fabrication as well as wastage shall have to be borne by the Contractor.
6. The contractor shall from time to time render proper account of all materials issued to him by BHEL. If he fails to do so, no further issue of materials will be made to him and he will be held responsible for any delay in the execution of the work which may occur on this account.
7. Where A.C. Sheets and accessories, Doors, Windows, Sanitary fittings, Special glasses or other items are issued free of cost to the contractor, the contractor will have to make good at his own cost any loss or damage to any part or whole of the items issued to him as above. All wastage within the premises limits as fixed by BHEL will be charged for at the prescribed issued rates of BHEL. Excess wastage will be charged for at punitive rates which will be 100% higher than the issue rates.
8. All surplus materials in good condition which are not returned to the BHEL Stores as also quantities of materials consumed in excess of the max. permissible limit as fixed by BHEL shall be charged for at punitive rates.

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

## **SCHEDULE 'C'**

### **ISSUE OF TOOLS AND PLANTS TO CONTRACTORS**

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

The above drawing is enclosed in the Price Bid.

## **SCHEDULE 'E'**

### **LEAD STATEMENT**

Sl.No.	Name of Material	Name of Source	Lead Particulars both for Factory and Township
1	Cement	BHEL Stores	2 Kilometre
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL Stores	2 Kilometre
3	HDPE pipes & specials	BHEL Stores	2 Kilometre
4	Cast iron pipes & specials including pig lead for jointing	BHEL Stores	2 Kilometre

CONTRACTOR

15

ACCEPTING OFFICER

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

## AUTHORITY TO TENDER

Tender Notice No.CF:TN: **015/16-17** Office of the

**DGMCIVIL/PLANNING(F&T)  
BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHY – 14.**

Tender Schedule No.CF:TS: **037/16-17**

~~Lumpsum / Percentage rate /~~ Item rate tender for works required in in  
**“Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy.. .**

**Messrs.** ..... ‘are / is hereby authorized to tender for the above work. The Tender is to be delivered at the Office of the **DGM/ CIVIL / PLANNING (F&T), 53 Building Ground floor** Bharat Heavy Electricals Limited, Thiruverumbur, Tiruchirappalli – 620 014, **up to 14.00 hrs. on 13.04.2017** -addressed to the **DGM / Civil / Planning(F&T),Building No.53 Ground floor**, 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**

CONTRACTOR

16

ACCEPTING OFFICER

Contract Agreement No.....

**TENDER**

To

**DGMCIVIL/PLANNING(F&T)**  
Bharat Heavy Electricals Limited  
Unit : Tiruverumbur  
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the work of **“Replacement of SSTP pumping main with HDPE Pipe Phase I (From Reservoir to RPS -2000 meter) in BHEL Trichy.”**

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

1. Specifications (General & Particular )
2. Drawings
3. Schedule ‘A’, ‘B’, ‘C’, ‘D’ & ‘E’ and Bill of Quantities attached hereto.
4. Schedule or 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 & condition contained or referred therein and as detailed in Schedule ‘A’ and Bill of Quantities annexure thereto an 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 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..... Telephone No.  
Address

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 .....