



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Sir,

Sub: Open Tender inviting Technical & Price Bid for “Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUCS Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).”

Interested Bidders shall submit their offer for the following scope of work as per the terms and conditions given in this Tender Notice.

Tender Ref No	PPPU: WC:18:004 Date 18.06.2018		
Scope of work	“Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUCS Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).”		
Location of work	Power Plant Piping Unit, BHEL located at Thirumayam, Pudukkottai district		
Duration of Contract	8 Months in stages from the date of commencement mentioned in LOI.		
Commencement of Work	Within 7 Days from the date of issue of Letter of Intent.		
Due Date / Time for submission of tender	14.00 hrs. on 13.07.2018		
Submission of Tender Document.	Tender Drop Box at Contracts Department First Floor, Admin Block, BHEL, Power Plant Piping Unit, Thirumayam, Pudukkottai dist. – 622507.	(Or)	Sent through Post or courier to Sr. Manager/ Contracts Department, First Floor, Admin Block, BHEL, Power Plant Piping Unit, Thirumayam, Pudukkottai dist. – 622507.
Date / Time & place for opening of Technical Bid	14.30 hrs. on 13.07.2018 at Contracts Department Admin Building, First Floor, BHEL, Power Plant Piping Unit, Thirumayam, Pudukkottai dist. – 622507.		
PRE BID MEETING Schedule	10.00 AM at PPPU - Thirumayam 03.07.2018		
Extension of Due Date for submission of tender & Date for Opening of Technical Bid, if any	Please check the Websites [http://www.bhel.com (Tender Notification page) or http://www.eprocure.gov.in] for another one week , for the extension of Due Date for submission of tender and Date for Opening of Technical Bid, if any.		
Date/Time of Price Bid Opening	The Bidders who are technically qualified will be called for Price Bid Opening / Reverse Auction. The Date / Time for the same will be intimated to the all qualified bidders separately.		
EMD: Rs. 1,96,600/- (Rupees One Lakh-Ninety-Six Thousand Six Hundred Only) NO EXEMPTION IS ALLOWED FOR SUBMISSION OF EMD. EMD HAS TO BE PAID THRUOUGH DD DRAWN ON BHEL PPPU THIRUMAYAM OR THROUGH ONLINE SBI COLLECT. COPY OF E-PAYMENT RECEIPT TO BE ATTACHED ALONG WITH TENDER DOCUMENT SUBMISSION. FOLLOWING LINK CAN BE USED FOR PAYMENT OF EMD. https://www.onlinesbi.com/sbicollect/icollecthome.htm Tender Document without EMD will be summarily rejected.			

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



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INSTRUCTION TO TENDERERS

This Tender is subject to General terms & conditions, Special Conditions of Contract and General safety precautions to be followed at work site during execution in force and which are enclosed for the reference of the tenderers.

- *The Technical Bid along with all Terms & Conditions shall be duly signed and stamped in all pages and placed in a cover duly superscripting as "TECHNICAL BID". Bids submitted with incomplete and incorrect technical details will be liable for rejection.*
- *RATE shall be furnished in the enclosed "PRICE BID" only, duly signed and sealed and placed in a separate cover duly superscripting as "PRICE BID".*
- *EMD should be submitted in a separate cover duly superscripting as "EMD".*
Totally there will be 3 Separate covers.

Cover Title	Pages of Tender document	Other required documents
Technical Bid	<i>All the pages except price bid</i>	<i>Copy of Pre-qualification criteria supporting documents for SI no 01 to 09 listed in page 123 to 124 of tender document - All stapled together or Spiral bound</i>
Price Bid	142 to 143	Nil
EMD	NA	<i>Covering letter, Demand draft or copy of e-Receipt for State Bank Collect Payment / EMD Exemption proof.</i>

- *All the above 3 covers shall be placed in a common sealed cover and shall be submitted before the said due date as given above superscripting the tender no. & date and Due Date.*
- *Tenderers should submit their bids before the said due date as given above in a sealed cover superscripting the Tender number, Tender date & Due Date and the tender will be opened in the presence of tenderers with due authorization.*
- *At the time of opening of Tender, the tenderer or representatives may participate after producing the authorization obtained from the authorized signatory of the tenderer specifying the purpose. Also the specimen signature of the representative should be authorized.*
- *Any deviation to the terms & conditions and schedules of this tender will lead to total rejection of the bid submitted.*
- *BELATED and incomplete bids will become liable for rejection.*

*Thanking you,
For Bharat Heavy Electricals Ltd.*

*N. Rajagopal
SM/ Contracts,
Power Plant Piping Unit
BHEL -Thirumayam - 622507
Contact No. 04333-279554
nraja@bhel.in*

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TENDER TERMS AND CONDITIONS

I. PRE - QUALIFICATION CRITERIA: Refer Technical Bid (Annexure – 1)

1. *Earnest Money Deposit (EMD)*
2. *The contractor should have an Income Tax Registration (PAN). (Details of self- attested copy to be furnished)*
3. *Goods & Service Tax (GST) registration / Application Reference Number. (copy of registration details indicating GSTIN/ARN to be submitted along with offer. (If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer).*
4. *The applicable rate of GST in % should be mentioned in the Price Bid format.*
5. *The bidder could be a Proprietorship / Partnership firm / LLP / One-person company / Private Ltd company / Public Ltd company / Trust / Society in this line of service or business Documentary proof shall be shall be enclosed for the status of business.*
6. *The tenderer should have submitted IT returns, Profit & Loss account and balance sheets certified by the auditor for the three consecutive financial years (2014-15, 2015-16, 2016-17) or (2015-16, 2016-17, 2017-18)*
7. *Average Annual financial turnover during the last 3 consecutive years, ending 31st March of FY2016-17 or FY2017-18, should be at least Rs 29.48 Lakhs.*
8. *Experience of having successfully completed similar works during last 7 (Seven) years ending 31.05.2018 should be either of the following*
 - I. Three similar completed works each costing not less than the amount equal to Rs 39.30 Lakhs. (or)*
 - II. Two similar completed works each costing not less than the amount equal to Rs 49.13 Lakhs (or)*
 - III. One similar completed work costing not less than the amount equal to Rs 78.61 Lakhs.*

Similar work means, Construction of foundation for machines and building works in industry. (Documentary evidence in terms of WO/completion certificate to be enclosed.) Experience certificate from private organizations to be supported by TDS (Tax Deducted at Source) certificate issued by the organizations or Form 26 AS or bank statement for transaction of payment.

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

The works executed in the own name of the tenderer only will be considered for eligibility criteria.

9. *There should be no case or charge under investigation, enquiry or trial against the bidder or any conviction in a court of law nor should be the bidder has been suspended, blacklisted or banned by any organizations /Govt. on any grounds. Self-declaration of the above effect should be submitted.*
10. *On award of contract, the successful bidder shall comply with all the statutory requirements of PF and ESI rules & regulations and also other relevant statutory norms for their workmen deputed for this work.*

NOTES: (1) *Only those bidders, who are meeting all the above qualifying criteria, will be considered for further evaluation and others will be summarily rejected.*

(2) *All supporting documents are to be signed & stamped in each page by the bidder for further evaluation.*

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II. Scope of work:

1. **Name of Work: Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).**
2. *Time is the essence of the contract. Being a time bound project with capital expenditure, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **8 (Eight) months**, the shop floor and other works shall be completed progressively and handed over as per split up schedule.*
3. *Failure to adhere to the split-up schedule would lead to levy of Liquidated Damages (LD) for total work of that stage in Split-Up schedule; as per Clause 41: COMPENSATION FOR DELAY, under BHEL, General Conditions of Contract. **In addition to above penalties, relevant GST on penalties will also be recovered from Contractor's Bill.***
4. *The tenderers are advised to visit the plant area near Thirumayam in Pudukkottai (Dt.) and get themselves acquainted with the site conditions before submitting the offer*

Stage Number	Description of Work	Split-up Schedule
I	Casting of all Pedestals for Main Columns and Sheeting Columns	2 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
II	Completion of Equipment Foundations for Furnace, Chimney, Quench tank, bogie tracks. Construction of Control room for Blower, Blower Shed and Blower Foundation	3 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
III	Casting of RCC Flooring and Cable Trench	1 month from the date of clearance from BHEL, after completion of PEB Shed erection
IV	Completion of Periphery wall (Brick wall with jallies)	2 months from the date of clearance from BHEL, after completion of PEB Shed erection
V	Construction of RCC Tank for Heater less LPG Vaporizer	5 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
	Finishing and handing over	3 months from the date of clearance from BHEL, after completion of PEB Shed erection

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NOTE

*** Work has to be commenced within 1 week from the date of issue of LOI.**

Only a single payment will be made for each stage after successful completion of each stage.

5% of the billed value will be withheld as finishing and handing over charges and will be paid after successful completion and handing over.

5. *BHEL reserves its right to reject the tender on account of unsatisfactory past performance by the present tenderer in another project / sister unit awarded under different enquiry.*
6. *If required the tenderer may have to execute additional scope of work at proportionate cost up to 20 % of the present contract value, keeping other terms and conditions unaltered.*
7. *The rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, storage sheds, labor, materials, levies, taxes (other than GST), transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, establishment, services, revenue expenses, overheads, profits & all other incidentals etc., complete.*
8. *The brief description of items of work are given in Bill of quantities of Price Bid. Tenderer has to quote a common single percentage in Price Bid for all the items given in bill of quantities (i.e.) below (100-X) % (or) At par (100%) (or) Above (100+X) %. The percentage offered shall not have more than two digits beyond decimal point. Applicable GST shall be extra.*
9. *Quoted percentage rate shall be firm throughout the contract period including extended period if any and no cost escalation is allowed on any account.*
10. *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.*
11. *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.*
12. *The work shall be carried out as per 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.*
13. *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.*
14. *The contractor has to furnish the security deposit, as per Clause 16.1 of "General Conditions of Contract". 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.*

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15. *The contractor should deploy the erection machineries like crane etc., required for the work at site till completion and handing over of the building. Also adequate number of the following tools & Plants / instruments shall be made available always at site for the works.*
- Precise Leveling instruments and total station*
 - Full load mixture machine / mini batching*
 - Petrol / Kerosene driven vibrator/ mechanical vibrator*
 - Inter carting vehicle (tractor, hand trolley etc.)*
 - Cube Moulds*
 - Hydra cranes*
 - Power operated winches*
 - Mobile / Hydraulic crane*
 - Welding machine etc.*
16. *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.*
17. *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.*
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. *The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.*
20. *The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.*
21. *On award of contract, 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 before commencement of work and any change thereafter in the organization set up shall have the prior approval of BHEL.*
22. *The contractor should submit the program for the completion of work and the list of machineries and site personnel to be deployed for the work along with tender.*
23. *The contractor should establish his own site office, fabrication yard, handling facility, storage facility to stock about 50 MT of cement etc., for which vacant land will be allotted on specific request for which the rent will not be collected. Cost towards material and erection for creation of the above facilities/ sheds has to be borne by the contractor and no extra payments will be made by BHEL towards these.*

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24. The contractor is required to carry out erection activities as directed by the department officials. It is required to engage certain minimum strength of experienced staff for effective supervision of works as indicated below:

- | | | |
|---|---|--------|
| a. Site in-charge / Construction Manager | - | 1 No. |
| b. Qualified Surveyor | - | 1 No. |
| c. Civil Engineer (Graduate in Civil Engineering) | - | 1 No. |
| d. Supervisor/Engineer (Diploma Holder) | - | 2 Nos. |

In addition to the above, Quantity surveyors, have to be engaged to prepare measurements and submit the bills; Qualified Safety Engineer should be deployed at site.

25. To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets shall be provided at contractor's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.

26. The Contractor has to deploy adequate labor of required categories such as Unskilled, Skilled, Welder, Fitter, Mistry, technically experienced, etc. so as to execute the works simultaneously in all areas of work. Expertise labor only to be engaged for specialized items of work and the technical persons with experience and if required by BHEL shall have to produce valid certificate for verification.

27. The contractor shall follow norms of BHEL security system for movement of men & materials within the complex.

28. Contractor should engage Stores personnel who would coordinate with department officials for clearance and collection of BHEL supplied materials if any for works.

29. The Contractor 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.

30. Food/ Tea and snacks can be availed at BHEL canteen at subsidized rates, by giving intimation well in advance with regards to the number of personnel who would be making use of this facility. The costs for the same shall be recovered from the Contractor's running bills.

31. All the works shall be executed as per the standard specifications as provided in TNBP / BIS.

32. The contractor should maintain proper accounts for free issue material like cement, reinforcement steel and structural steel sections and other materials if any supplied by BHEL and these should be available at the site of work for verification and check by the Officials of BHEL at any time.

33. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge/ BHEL before they are incorporated in the work.

34. The contractor should use only the materials of reputed brand/ quality as approved by BHEL.

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35. *Sufficient care shall be taken by the contractor to avoid damages to the buried pipe lines, cables and other infrastructure etc.*
36. *Contractor's materials and tools & plants shall have to be brought inside factory with proper invoice / voucher and make necessary entry in the security gate. They should maintain proper record for tools and plants, materials, etc., brought inside the factory complex.*
37. *The contractor should extend full co-operation with the third party inspection agencies if any, engaged by BHEL to adhere to the Quality Control Procedures at the places of fabrication and erection.*
38. *The contractor should extend full co-operation to the other contractors who may be doing other works in the same area to enable them to execute their portions of work without any delay or difficulty.*
39. *On the written request from the contractor **Electrical energy required for the work may be given by this organization at any one point at the site of work at free of cost.** The approximate power requirement shall have to be indicated while submitting the tender. BHEL does not accept any liability whatsoever for non-supply, delay in supply or failure of supply of electrical energy. Contractor shall ensure that there is no wastage of electrical energy otherwise supply is liable to be stopped at contractor's risk and cost. The contractor shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution.*
40. *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.*
41. *On the written request from the contractor **Compressed air for the work will be provided by this organization at only one point near the site of work at free of cost.** The contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jackhammer with silencer wherever BHEL is not in a position to supply compressed air.*
42. *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 / RTGS transfer for any payment from BHEL, Thirumayam.*
43. *The main work order may further be split into few sub work orders as per the split-up schedule with individual delivery dates. The process of execution, billing, material tallying and submission of completion reports will be according to the individual sub work orders.*

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44. *The delivery dates for each sub-work order should be strictly adhered. Failure to do so would attract Liquidated Damages (LD) as per clause 41 of General Conditions of Contract for the entire sub-work order.*
45. *No advance / mobilization advance is payable for this work.*
46. *BHEL reserves its right to accept / reject any or all the tenders without assigning any reasons.*
47. *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.*
48. *The contractor should deploy precise instruments like total station, measuring devices using laser beam to ensure error free line, level and alignment of holding down bolts etc. The contractor is required to deploy skilled experienced laborers in handling such instruments and has to coordinate with other agencies like Pre Engineered Building contractor in achieving accuracy for trouble free erection of structures.*
49. *No Over Run Charges shall be applicable under any circumstances.*
50. *Bank Guarantee format and the list of consortium banks are enclosed for BG submission against Security Deposit*
51. *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 Pudukottai, Tamil Nadu only.*
52. *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.*
53. *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.*
54. *In case Letter of Intent (LOI) is issued through email, the System 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.*
55. *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*

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

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 finalization 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.

56. *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.*

57. *The bidder along with its associate/ collaborators / sub-contractors / sub vendors / consultants / service providers shall strictly adhere to BHEL fraud prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of the management about any fraud or suspected fraud as soon as it comes to their notice*

58. **Deviations**

The contractor shall not make any alteration in addition to or omission from the work as described in the tender documents except in pursuance of the written instructions of the Engineer-in-charge. No such deviation from the work described in the tender documents shall be valid unless the same has been specifically confirmed and accepted by the Accepting Officer in writing and incorporated in the contract.

The Accepting Officer may deviate either by way of addition or deduction, from the work so described, provided that the contract sum be not thereby varied on the whole by more than the percentage set out in the tender documents. The value of all addition and deductions will be added to, or deducted from the contract sum. Whenever the Accepting Officer intends to exercise such a right, his intention shall specify the deviations which are to be made, the lump sum assessment or the proposed basis of payment, the extra time allowed, if any, and the date for completion of the entire contract.

*Any objection by the Contractor to any matter concerning the order shall be notified by him in writing to the Engineer-in-charge within **Seven days** from the date of such order, but under no circumstances shall the work be stopped (unless so ordered by the Engineer-in-charge) owing to differences or controversy that may arise from such an objection. In the absence of such a notification of objection by the contractor, he will be deemed to have accepted the order and the conditions stated therein. In the event of the contractor failing to agree with the Engineer-in charge regarding the terms of the proposed deviation, the objection shall be referred to the Project Manager whose decision shall be final conclusive and binding on the Contractor.*

59. **ARBITRATION & CONCILIATION**

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Refer Clause No 58: in BHEL, General Conditions of Contract.

Except as provide elsewhere in this contract, in case amicable settlement is not reached between the parties, in respect of any dispute or difference ; arising out of the formation, breach, termination, validity or execution of the contract; or, the respective rights and liabilities of the parties ; or, in relation to interpretation of any provision of the contract; or , in any manner touching upon the contract, then, either party may, by a notice in writing to the other party refer such dispute or difference to the sole arbitrations of an arbitrator appointed by Head of the BHEL Unit /Region/Division issuing the contract .

The arbitrator shall pass a reasoned award and the award arbitrator shall be final and binding upon the parties.

Subject as aforesaid, the provisions of arbitration and conciliation Act 1996 (India) or statutory modification or re-enactments thereof and the rules made thereunder and for the time being in force shall apply to the arbitration proceedings under the clause. The seat of arbitration shall be Pudukkottai, Tamil Nadu

The cost of arbitration shall be borne as per the award of the Arbitrator.

Subject to the arbitration in terms of clause, the Courts at Pudukkottai, Tamil Nadu Shall have Exclusive jurisdiction over any matter arising out of or in connection with this Contract.

Notwithstanding the existence or any dispute or differences and / or reference for the arbitration, the Contractors shall proceed with and continue without hindrance the performance of its obligation under this Contract with due diligence and expedition in a professional manner expect where the contract has been terminated by either party in terms of this Contract.

In case of contract with public sector enterprise (PSE) or a Government department, the following shall be applicable:

In the event of any dispute or difference relating to the interpretation and application of the provisions of the Contract, such dispute or difference shall be referred by either party for arbitration to the sole arbitrator in the Department of public Enterprises to be nominated by the Secretary to the Government of India in-charge of the Department of public Enterprises. The arbitration and conciliation Act, 1996 shall not be applicable to arbitration under this clause. The award of the arbitrator shall be binding upon the parties to the dispute, provided, however, any party aggrieved by such award may make further reference for setting aside or revision of the award to the law secretary, department of legal affairs, ministry of law and justice, Government of India. Upon such reference the dispute shall be decided by the law secretary or the special secretary or Additional secretary when so authorized by the law secretary, whose decision shall bind the parties hereto finally and conclusively. The parties to the dispute will share equally the cost of arbitration as intimated by the arbitrator.

The contractor shall strictly adhere to various labor laws in force.

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Dt. 18.06.2018

III. PAYMENT TO THE CONTRACTOR:

A. Payment to the Contractor:

Contractor shall raise the bills for each sub work order as per the specified split up schedule only after completion of all the works in that work order and billing will be done based on "CHAPTER IV, VALUATION AND PAYMENT" under "BHEL, General Conditions of Contract."

5% of the bill value will be withheld for finishing works and the same shall be paid on successful completion of work, certified jointly by the contractor and executive incharge.

The charges incurred by the contractor by means of availing the canteen facilities shall be deducted from the Contractor's running bills.

B. Processing of Bills:

The Contractor after completing each work in the split up schedule aforementioned, shall submit a bill in triplicate detailing the various items of work done in the work supported by the requisitions issued from time to time. The Contractor shall, once in every month, submit to the HOD separately details of their claims for the work done by them up to and including the previous month which are not covered by their contract agreement in any of the following respects:

- a) Deviation from the items provided in the contract documents.*
- b) Extra items / new items of work.*
- c) Items in respect of which rates have not been settled. He should in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claims and that no further claims shall be raised by him in respect of the work done up to and including the period under report. Payment will be at the sole discretion of BHEL.*

B.1 Along with bills, Contractors has to furnish copy of the following documents for further processing of bills:

- a) Copy of payment challan of previous Month / Quarter as proof of deposit of GST along with a certificate from the Contractor that tax collected from BHEL has been remitted to tax authorities.*
- b) Any other relevant document which is required from time to time as per BHEL requirement.*
- c) If the Contractor is not registered for any statutory obligation and not liable thereto, then a declaration shall be submitted along with offer that they are within the threshold limit.*

IV. CONTRACT PERIOD:

- 1. The contract execution period is for the period aforementioned in Page No: 1 of this tender notice.*
- 2. If required, BHEL reserves the right to extend this subject contract for a further period under same terms and conditions.*
- 3. The contract may be terminated by BHEL due to violations or non-performance of the Contract conditions by giving one month's notice*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

V. General

1. *The contractor agrees to indemnify the company against all claims and losses arising as a liability under the Payment of Wages Act, Employees Provident Fund & Miscellaneous Provisions Act, Industrial Disputes Act, Employees State Insurance Act, Contract Labor (Regulation & Abolition) Act, Workmen's Compensation Act, Arbitration Act, Minimum Wages Act, Inter State Migration Act etc. or any civil or criminal law in force so far as they relate to security personnel employed by the contractor for the company.*
2. *The liability of any compensation for injury to their staff or others arising as a result of duties by the staff shall be that of the contractor.*
3. *Income Tax or any other statutory dues liable to be paid by the contractor shall be recovered from the bills of the contractor for which TDS certificate will be issued by BHEL.*
4. *With regard to the interpretation of the terms and conditions of this contract, the decision of the Head of the Unit / BHEL – PPPU Thirumayam shall be final.*

VI. COMMERCIAL TERMS & CONDITIONS:

01. RATE:

- a. *Rate should be quoted in **Percentage** as numerals and in words in the attached price bid format.*
- b. *The rates quoted should be **Exclusive of GST (but inclusive of any other taxes & duties)** levied or to be levied both by Central and State Government Authorities in future. Such levies, if any, should be borne only by the Contractor.)*
- c. *The applicable Rate of GST in % should be mentioned in the Price Bid Format.*
- d. *GST Payment will be reimbursed as per statutory provisions, subject to production of proof of payment / remittances only.*
- e. *The rates quoted in the tender shall remain **valid** initially for a period of at least "**THREE MONTHS**" from the date of opening of Price Bid. After successful award of contract, the rates shall be firm throughout the contract period and no cost escalation is allowed on any account.*
- f. *Should a tenderer find discrepancies or omissions in the drawings or any of the tender documents, should be in doubts as to their meaning; he should at once address the authority inviting the tender for clarifications. Every endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall be taken upon himself to provide for the risk or any error which may be subsequently discovered and shall make no subsequent claim on account thereof.*
- g. *Contractor has to ensure that all statutory payment as per Minimum wages act/ Payment of Wages act etc. and BHEL additional payment (as indicated in welfare conditions) to be taken care of while quoting. No claim in respect to payment to workman will be entertained at a later stage. It will be responsibility of contractor to comply with statutory payments to workmen in this regard.*
- h. ***Before tendering, the tenders are strongly advised to inspect the site of work and its environments and be well acquainted with the actual working and other relevant conditions, position of materials and labour under scope of work covered.***

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Tender Notice

Dt. 18.06.2018

- i. *Conditional and late tenders, tenders containing prima-facie absurd rates and amounts, tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions herein contained and the tenders not in original are liable to be rejected.*
- j. *Canvassing in any form w.r.t. tenders is strictly prohibited and the tenders submitted by contractors who resort to canvassing are liable for rejection.*
- k. *In the event of tender being submitted by the firm, the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned. In the latter case, a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.*
- l. *Earnest Money Deposit will be refunded to the unsuccessful tenderers normally within 15 days of the award of work. In the case of successful tender, the earnest Money Deposit will be retained as part of the Security Deposits for satisfactory completion of the work. If the bidder withdraws his offer after submission of tender or after acceptance of tender or fails to start the work, the EMD shall be forfeited.*
- m. *BHEL reserves the right to*
 - i) *Cancel the tender at any stage.*
 - ii) *Finalize the contract through Reverse Auction / Price Bid Opening.*
 - iii) *Negotiate or refloat the tender opened if L1 price is not the lowest acceptable price to BHEL inter-alia other reasons.*
- n. *BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders have to give their acceptance for participation in RA. **Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.***
- o. *In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "online sealed bid" in the Reverse Auction. Non-submission of "online sealed bid" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.*
- p. *All payments from BHEL in view of the execution of the contract are liable for IT (TDS), GST, PF & Group Insurance and all other statutory provisions as applicable. Hence, bidders shall confirm that they have suitable mechanism for effective compliance to the same.*
- q. *GST and all other taxes shall be shown extra in the bid. Bharat Heavy Electricals Limited, Thirumayam will not entertain any claim what so ever in this respect after opening the tenders. Also GST Registration / GST application reference number have to be provided as applicable.*

02. Taxes and Duties:

The percentage rate quoted shall not include applicable GST.

- a. *Response to Tenders will be entertained only if the contractor has a valid GST registration no which should be clearly mentioned in the offer.*
- b. *The Contractor shall mention their GST registration number in all their invoices and invoices shall be in the format as specified/prescribed under GST laws. Invoices shall necessarily contain Invoice number (in case of multiple numbering system is being followed for billing like SAP invoice no, commercial invoice no etc., then the Invoice No which is linked/uploaded in GSTN network shall be clearly indicated), item description as per PO, Quantity, Rate, Value, applicable taxes with nomenclature (like IGST, SGST, CGST & UTGST) separately, HSN / SAC Code, etc.*
- c. *All invoices shall bear the SAC code (Services Accounting Code) & HSN Code (if applicable) for each item separately (Harmonized System of Nomenclature).*

Place
Date

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- d. *Payment shall be effected only after submission of declaration to the effect that all invoice particulars are/were uploaded in the GSTN network/ portal & All tax liability as per GST rules and regulations have been and will be discharged, shall be mentioned in the invoice. If it is not mentioned in the invoice, a separate declaration shall be submitted as per the requirement of BHEL.*
- e. *GST charged in the tax invoice/debit note/revised tax invoice by the contractor shall be released separately to the contractor only after contractor files the outward supply details in GSTR-1 on GSTN portal and input tax credit of such invoice is matched with corresponding details of outward supply of the supply and has paid the GST at the time of filing the monthly return.*
- f. *All documents like Work completion certificate and any other document mentioned in PO, shall be submitted.*
- g. *Contractor shall submit to BHEL the GST compliant tax invoice/debit note/revised tax invoice on the basis of which BHEL will claim the input tax credit in its return (if Input Tax Credit is applicable).*
- h. *For all works executed within the calendar month, input credit will be availed within that month in line with monthly returns filing cycle (if Input Tax Credit is applicable). In case of any discrepancy in the document or non-submission of documents mentioned in the PO, then BHEL will not be able to accept or account the works executed, in such case availing of tax credit will be deferred to next month or so.*
- i. *In case of discrepancy in the data uploaded by contractor in the GSTN portal or in case of any shortages or rejection in the works executed, then BHEL will not be able to avail the tax credit (if Input Tax Credit is applicable) and will notify the Contractor of the same. The Contractor has to rectify the data discrepancy in the GSTN portal or issue credit note (details to be uploaded in GSTN portal) for the shortages or rejections, within the calendar month notified by BHEL.*
- j. *For any such delay in availing of tax credit for reasons attributable to the Contractor (as mentioned above), interest (calculated @ SBI Base Rate + 6%) along with penalty if any will be deducted for the delayed period i.e. from the month of receipt till the month tax credit is availed, from the running bills.*
- k. *If GST will be payable on reverse charge, then the same shall be payable directly to Govt by BHEL under reverse charge.*
- l. *TDS under GST (as & when applicable) shall be deducted at prevailing rates on applicable value from the running bills.*
- m. *In case of deduction/excess in completion certificate/measurements, credit note /debit note shall be issued within the time limit prescribed in GST law and accordingly contractor shall adjust his tax liability.*
- n. *In case any new tax / levy / duty etc. becomes applicable after the date of Bidder's offer but before opening of the price Bid, 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.*
- o. *New Taxes/Levies - In case the Government imposes any new levy/tax on the output service/ goods/ after price bid opening, the same shall be reimbursed by BHEL at actual.*

All taxes and duty other than GST

The contract price shall be inclusive of all (save the specific exclusions as enumerated in this contract) taxes, fees, license charges, deposits, duties, tools, royalty, Octroi, commissions or other charges which may be levied on the input goods consumed and output goods delivered in the course of Works

Place
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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from the contractors bills or otherwise as deemed fit.

03. RISK PURCHASE:

- I. *In the event of any successful Tenderer's failure to fulfil any of the Tender / Contract Terms & Conditions / Obligations, explicitly expressed or implied, as per Tender / Contract, BHEL may entrust the job to alternate vendor and get it completed to meet the BHEL service requirements and additional expenditure if any including consequential cost shall be totally recovered from the contractor who failed to complete the job in line with the BHEL tender / contract.*
- II. *The decision of BHEL with regard to the actual losses / consequential expenditure incurred by BHEL shall be final and binding on the contractor.*

Place
Date

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Terms & Conditions of Reverse Auction (RA)

Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

- 1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.*
- 2. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of “online sealed bid” by the bidder for any of the eligible items for which techno-commercially qualified will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.*
- 3. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding ON-LINE-BIDDING through internet, at NO extra cost to the Bidders.*
- 4. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.*
- 5. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.*
- 6. Bidders have to fax the Compliance form before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.*
- 7. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at “Total Cost to BHEL” like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, GST for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.*
- 8. Reverse auction will be conducted on scheduled date & time.*
- 9. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, as provided on case-to-case basis to Service provider within two working days of Auction without fail.*
- 10. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL’s standard practice.*
- 11. Bidders shall be required to read the “Terms and Conditions” section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the “Business Rules of Reverse Auction”, which will be communicated before the Reverse Auction.*
- 12. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.*
- 13. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.*
- 14. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) will not be allowed to participate in further RA process provided minimum three bidders are left after removal of H1 bidder.*

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

15. In case of tie for H1 bid (Identical online sealed bids), 15 minutes additional time shall be provided and all the participating bidders shall be informed by mail/ message on bidding screen to enable bidders submit revised online sealed bids so as to break the tie.

16. Any variation between the ON-LINE Bid Value and the signed document will be considered as unethical the Tender process and will invite disqualification of Bidder, for further business dealings with BHEL as per the prevailing procedure.

"BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for the participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "Process Compliance Form" (to the designated service provider) as well as "Online sealed bid" in the Reverse Auction. Non submission of "Process Compliance form" or "online sealed bid" by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com). The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. **The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specially agrees to this condition and undertakes to execute the contract on thus awarded rates.**

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelop sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/contractors (as available on www.bhel.com)."

As a reminder to the bidders, system will flash following message (in RED color) during the course of "online sealed bid".

"Bidders to submit online sealed bid less than or equal to their envelope sealed bid already submitted to BHEL".

VII. CONDITIONS RELATED TO THE WELFARE OF LABOURS:

- 1) The successful contractor has to have his own PF, ESI / Group Insurance registration and comply with the relevant Acts. If not available immediately / already applied / pending with PF authorities, then an undertaking to comply shall be submitted on award of contract.
- 2) The Contractor has to remit PF for his workers for the same amount which he paid as total wages to the employees on monthly basis. He has to remit 13.61% from his side and deduct 12% of Wages from the monthly wages of the employees and a total of 25.61% of monthly wages should be remitted as PF i.e. each employee.
- 3) The Contractor has to produce the PF Registration Code for his workers as per the Government rules while submitting the first bill. The first bill will be processed only on production of the above code. For subsequent bills, the PF remittance challan for the engaged labor has to be submitted for bill processing.

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- 4) BHEL will not be liable for any medical attention, injury / loss of life of the persons engaged by the contractor during the work inside the factory premises as per the contract. A suitable insurance coverage (ESI / Group Insurance) for the employees shall be arranged by the Contractor at his cost from the first day of operation, towards medical treatment and compensation of any loss as per legal provisions.
- 5) The contractor shall have full control over his employees including the right to appoint, determine service conditions, discharge, dismiss, or otherwise terminate their services at any time. The contractor shall be solely responsible for any claim arising out of employment or termination of employment of his employees and for statutory payments.
- 6) In case, during the contract period if ESI scheme comes into effect, the contractor shall conform to the statutory requirements and any additional cost involved shall be borne by the contractor only.
- 7) The contractor shall employ such personnel who are medically fit and above the age of 18 only. The company has the right to direct the contractor to remove from the premises such of his personnel who may be physically, hygienically, clinically or medically found to be unfit.
- 8) The Minimum Wages as prescribed by the State Government from time to time should be paid to the contract Workers and the Wage and Attendance Registers should be produced to Welfare Section every month.

The minimum wages are given below for reference:

Sl. No	Category	Minimum Wages per day (Rs)			Minimum Wages per month (Rs)		
		Basic	DA	Total	Basic	DA	Total
1	Un Skilled Worker	258.50	163.00	421.50	7,755.00	4235.00	11,990.00
2	Semi-Skilled Worker	271.00	163.00	434.00	8,130.00	4235.00	12,365.00
3	Skilled Worker	278.50	163.00	441.50	8,355.00	4235.00	12,590.00
4	Supervisor	-	-	-	7,660.00	4235.00	11,895.00

(The above table is for illustrative purpose only. Govt circular shall be followed.)

Apart from the above, an additional monthly payment of 3200/- for Unskilled, 3700/- for Semi-Skilled worker and 4100/- each for skilled worker as applicable from time to time is to be ensured.

- 9) If the contractor employs more than twenty employees, he has to obtain license to this effect from the Factory Inspectorate and renew the same periodically.
- 10) The Contract workers should be fully aware of safety measures and observe all safety precautions during work. The contractor should also make his own arrangements to provide requisite safety devices to the workers, based on the nature of work. Any accident/incident occurring to his workers in Company's premises should be reported in writing by the Contractor to Safety, Welfare and Line Executive concerned.
- 11) A list containing the name of working persons' photo, address, age, designation, nature of work is to be furnished immediately on receipt of the contract/work order. This is required for our records and issuance of Identity Card for Gate entry.
- 12) Canteen facility will be provided to these contract workers at subsidized rates as per the provisions of The Contract labor (Regulation & Abolition) Act 1970 and the related Tamil Nadu Rules.
- 13) Minimum Bonus of 8.33% as applicable shall be paid to the contract employees as per the Payment of Bonus Act 1965.
- 14) The Contractor shall in respect of labor employed by him, comply with the following statutory provisions, rules & in regard to all matters provided therein.

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

1. *The Workmen Compensation Act 1923,*
2. *The Payment of Wages Act 1936 and the related Tamil Nadu Rules,*
3. *The Industrial Disputes Act 1947,*
4. *The Factories Act 1948 and the related Tamil Nadu Rules,*
5. *The Minimum Wages Act 1948 and the related Tamil Nadu Rules,*
6. *Employee's Provident Funds & Miscellaneous Provisions Act 1952,*
7. *The Payment of Bonus Act 1965.*
8. *The Contract labor (Regulation & Abolition) Act 1970 and the related Tamil Nadu Rules,*
9. *The Building and Other Construction Works (RE & CE) Act, 1996 and the related Tamil Nadu Rules.*

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Checklist for Documents to be submitted to HR/Welfare Section*				
S.No	Document type	Scheduled Date	Periodicity	Remarks
1	PF Registration code	On Award of contract/ on production of First bill	One time/as and when required by BHEL	
2	ESI/Group Insurance Code	On award of Contract	One time/as and when required by BHEL	
3	Form VI-A & VI-B under Contract labor (R&A) Act	On commencement and Completion of the Contract	Twice (Once on commencement and once of completion of contract)	Form VI-A to be submitted to Labour authorities and a copy to submitted to Welfare section. Form VI-B (to be prepared and endorsed by User/executing Department) to be submitted to Welfare Section
4	Labor License	To be obtained immediately from Labor authorities in case of engagement of 20 or more contract workers	One time/ on renewal of License / as and when required by BHEL	
5	Bio Data form with proper ID proof	To be submitted for all employees immediately on award of contract and as and when new employees are engaged	One time / as and when required by BHEL	Required for providing ID cards to enable entry into Factory premises and for record purpose
6	Attendance Register	To be submitted on or before 5th of every month	Monthly	To be endorsed by the contractor and BHEL authorised executive/Line Executive
7	Wage Register	To be submitted on or before 5th of every month	Monthly	1. Should show PF deduction for each employee 2. to be endorsed by the contractor and BHEL authorised executive/Line Executive
8	PF remittance challan & PF - ECR	To be submitted on or before 5th of every month	Monthly	
9	Monthly Entry Format	To be submitted on or before 25th of each month	Monthly	
10	Canteen Usage Request format	To be submitted immediately on award of contract	One time / as and when there is a change in the number of contract workers	The Canteen timings as intimated by BHEL management are to be adhered to

* The checklist is indicative, the contractor is obliged to produce any other document required, in compliance with extant statutes and BHEL practice, as and when required.

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

GENERAL CONDITIONS OF CONTRACT FOR LUMPSUM, ITEM RATES AND PERCENTAGE CONTRACT

CONTENTS

<i>Condition No</i>	<i>Description</i>
CHAPTER - I	
1	DEFINITIONS
CHAPTER - II	
<i>SCOPE OF CONTRACT</i>	
2	HEADING TO THE CONTRACT
3	CONTRACT DOCUMENTS
4	WORKS TO BE CARRIED OUT
5	PROVISIONAL ITEMS
6	DEVIATIONS
7	TIME
8	STORES & MATERIALS
9	DELAY & EXTENSION OF TIME
10	PATENT RIGHTS
11	OCTROI AND OTHER DUTIES
12	ROYALTIES
13	PLANT & EQUIPMENT
14	ASSIGNMENT OR TRANSFER OF CONTRACT
	a) SUB-CONTRACT
15	COMPLIANCE TO REGULATIONS AND BYE-LAWS
CHAPTER - III	
<i>PERFORMANCE OF THE CONTRACT</i>	
16	SECURITY DEPOSIT

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Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- 17 *ORDERS UNDER THE CONTRACT*
- 18 *ADMISSION TO SITE*
- 19 *CONTRACTOR'S SUPERVISION*
- 20 *LABOR*
- 21 *WATER*
- 22 *TEMPORARY WORKSHOPS, STORES ETC.*
- 23 *STORES & MATERIALS ON SITE*
- 24 *TOOLS AND PLANTS ON SITE*
- 25 *STATEMENT OF HIRE CHARGES*
- 26 *PRECAUTIONS AGAINST RISKS*
- 27 *NOTICE & FEES*
- 28 *SETTING OUT OF THE WORKS & PROTECTION & MAINTAINING SIGNALS
AND WORKS*
- 29 *SITE DRAINAGE*
- 30 *EXCAVATIONS, RELICS ETC.*
- 31 *FOUNDATIONS*
- 32 *COVERING-IN WORKS*
- 33 *APPROVAL OF WORKS BY STAGES*
- 34 *EXECUTION OF WORKS*
- 35 *DAY WORKS*
- 36 *INSPECTION OF THE WORKS*
- 37 *RESPONSIBILITY FOR BUILDING*
- 38 *INSURANCE OF WORKS*
- 39 *DAMAGE AND LOSS TO PRIVATE PROPERTY & INJURY TO WOKMEN*
- 40 *COMPLETION*
- 41 *COMPENSATION FOR DELAY*
- 42 *LAWS GOVERNING THE CONTRACT*
- 43 *CANCELLATION OF CONTRACT FOR CORRUPT ACT*
- 44 *CANCELLATION OF CONTRACT FOR INSOLVENCY, ASSIGNMENT OR SUB
LETTING OF CONTRACT*

Place
Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- 45 CANCELLATION OF CONTRACT FOR DEFAULT
- 46 TERMINATION OF CONTRACT FOR DEATH
- 47 SPECIAL POWERS OF DETERMINATION
- 48 FAIR WAGE

CHAPTER – IV

VALUATION AND PAYMENT

- 49 RECORDS & MEASUREMENTS
- 50 VALUATION OF DEVIATIONS
- 51 REIMBURSEMENT/ REFUND ON VARIATION IN PRICE
- 52 ADVANCES ON ACCOUNT
- 53 FINAL BILL
- 54 PAYMENT OF BILLS
- 55 RECOVERY FROM CONTRACTOR
- 56 POST TECHNICAL AUDIT OF WORKS AND BILLS
- 57 REFUND OF SECURITY DEPOSIT
- 58 ARBITRATION

ANNEXURE

- BHEL CONTRACTOR'S LABOR REGULATIONS
- MODEL RULES FOR LABOR LAWS
- BHEL SAFETY CODE

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CHAPTER- I

1. DEFINITIONS

In these General Conditions of Contract, the following terms shall have the meaning hereby assigned to them except where the context otherwise requires: -

a) *The “CONTRACT” means the documents forming the tender and acceptance thereof, together with all documents referred to therein including General and Special Conditions of Contract, Schedules ‘A’, ‘B’, ‘C’, ‘D’, ‘E’, and / or General Summary attached to the form of tender, the Bharat Heavy Electricals Limited, Schedule of Rates as amended and in force the Specifications and the Drawings. All these documents as applicable taken together shall be deemed to form one Contract and shall be complementary to one another.*

b) *The “TENDER DOCUMENTS” means the form of Tender the applicable Schedules ‘A’, ‘B’, ‘C’, ‘D’, ‘E’, and / or General Summary, General and Special Conditions of Contract and the Specification and / or Drawings as given to Contractors on payment for the purpose of preparing their tenders.*

c) *The “WORK” means the work described in the tender documents in individual work orders and/or accompanying Drawings and Specifications as may be issued from time to time to the Contractor by the Engineer-in-charge within the powers conferred upon them, including all modified or additional works and obligations to be carried out either at the site or at any Factory Workshop or other place as required for the performance of the Contract.*

d) *The “SITE” means the lands and/or other places on, in into or through which the work is to be executed under the Contract or any adjacent land, path or street which may be allotted to or used for the purpose of carrying out the contract.*

e) *The “CONTRACTOR” means the individual, firm or Company, whether incorporated or not undertaking the work and shall include the legal personal representatives of such individuals or the persons composing the firm or Company, or the successors of the firm or Company and the permitted assigns of such individual or firm or Company.*

f) *The “Engineer-in-charge” means the Engineer who is in charge for the works referred.*

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CHAPTER II

SCOPE OF CONTRACT

2. Heading to the Contract:

The heading to these conditions shall not affect the interpretation thereof.

3. Contract Documents

*The Accepting Officer shall furnish to the Contractor on demand "FREE OF COST" three copies of signed drawings and one copy of the signed agreement comprising of preamble to agreement, General and Special Specifications, Schedule 'A', 'B', 'C', & 'E', etc., (but excluding General Conditions of Contract and Drawings) and **three** copies of all further drawings issued during the progress of work.*

However, for any additional copies of the agreement or drawings required by the Contractor the same will be supplied on payment at the specified cost.

The Contractor shall keep one copy of all the Drawings and the Specifications at the site and the Engineer-in-charge or his representative shall have access to them at all reasonable times.

None of these documents shall be used by the contractor for any purpose other than that of this contract.

The Contractor shall take necessary steps to ensure that all persons employed on any work in connection with this contract have noticed that the Indian Official Secrets Act 1923 (XIX of 1923) applies to them and shall continue so to apply even after the execution of such works under the contract.

4. Works to be Carried Out

The Contract shall, except as provided under Schedules 'B' and 'C' include all labor, materials, tools, plants equipment and transport which may be required in preparation for, and in the entire execution and full completion of the work. Schedule 'A' shall be deemed to have been prepared in accordance with good practice and recognized principles and unless otherwise stated, the descriptions given therein shall be held to include waste on materials carriage and cartage, lead, return of empties, hoisting, setting, fitting in position and all other labor

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

necessary in and for the entire execution and full completion aforesaid. Any error in description or quantity in schedule 'A' or any omission there from shall not vitiate the Contract or release the Contractor from the execution of the whole or any part of the work comprised therein according to the Drawings and Specifications, or from any of his obligations under the Contract. The insertion of the name of any firm of suppliers in the Tender Documents is for the purpose of obtaining a particular class or quality of materials or workmanship but the articles or materials specified may be obtained from any other firm subject to prior written approval of the Engineer – in – charge.

In the case of a discrepancy between Schedule 'A' the specification and / or the Drawing, the Accepting Officer shall be the sole deciding authority as to which shall prevail and his decision shall be final and conclusive. If neither Drawings nor Specifications contain any mention of minor details of construction, which in the opinion of the Accepting Officer whose decision shall be final and conclusive, are reasonable and obviously and fairly intended for the satisfactory completion of the work, such details shall be provided by the Contractor without any extra cost as if they were specially mentioned and shall be deemed to be included in the contract.

The contractor will be deemed to have satisfied himself as to the nature of the site, local facilities of access and all matters affecting the execution and completion of the work. No extra charges consequent on any misunderstanding in these respects or otherwise will be allowed.

5. Provisional Items

The full amount of provisional lump sums and the value annexed to each provisional item inserted in the tender documents shall be deducted from the contract sum and the value of work ordered and executed thereunder shall be ascertained by measurement or valuation as for deviations.

No work under these items is to be begun without instructions in writing from the Engineer-in-charge.

The extent of quantities or items described as "Provisional" shall not be held to guarantee or limit the amount and description of the work to be executed by the contractor either in respect of the items concerned or the work as a whole.

No addition or deduction shall be made by the Contractor to the amount of the provisional lump sums as included in the tender documents.

6. Deviations

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

The contractor shall not make any alteration in addition to or omission from the work as described in the tender documents except in pursuance of the written instructions of the Engineer-in-charge. No such deviation from the work described in the tender documents shall be valid unless the same has been specifically confirmed and accepted by the Accepting Officer in writing and incorporated in the contract.

The Accepting Officer may deviate either by way of addition or deduction, from the work so described, provided that the contract sum be not thereby varied on the whole by more than the percentage set out in the tender documents. The value of all addition and deductions will be added to, or deducted from the contract sum. Whenever the Accepting Officer intends to exercise such a right, his intention shall specify the deviations which are to be made, the lump sum assessment or the proposed basis of payment, the extra time allowed, if any, and the date for completion of the entire contract.

*Any objection by the Contractor to any matter concerning the order shall be notified by him in writing to the Engineer-in-charge within **Seven days** from the date of such order, but under no circumstances shall the work be stopped (unless so ordered by the Engineer-in-charge) owing to differences or controversy that may arise from such an objection. In the absence of such a notification of objection by the contractor, he will be deemed to have accepted the order and the conditions stated therein. In the event of the contractor failing to agree with the Engineer-in-charge regarding the terms of the proposed deviation, the objection shall be referred to the Project Manager whose decision shall be final conclusive and binding on the Contractor.*

7. Time

Time is the essence of the contract and is specified in the tender document or in each individual Work Order.

As soon as possible after the contract is let or any substantial Work Order is placed and before work under is to begin, the Engineer-in-charge and the Contractor shall agree to a Time and Progress Chart. The Chart shall be prepared in direct relation to the time stated in the Tender Documents or the Work Order for the completion of the individual items thereof and/the contract or order as a whole. It shall indicate the forecast of the dates for the commencement of the various trade processes or sequences of the work, and shall be amended as may be required by agreement between the Engineer-in-charge and the Contractor within the limitation of the time imposed in the Tender Documents or Order

In the absence of any specific Time and Progress chart to be agreed to between the Contractor and the Engineer-in-charge, the contractor shall ensure and maintain uninterrupted progress of the work such that the entire work shall be completed within the time imposed in the Tender Documents or Order and that the proportion of work completed upto any time in relation to the entire work to be under the Contractor Order shall not be less than the

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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

proportion that the time elapsed bears to the total time of completion provided in the Tender Documents or Order.

The contractor shall suspend the execution of the work, or any part or parts thereof whenever called upon in writing by the Engineer-in-charge to do so, and shall not resume work thereon until so directed in writing by the Engineer –in-charge. The Contractor will be allowed an extension of time for completion not less than the period of suspension. However, no other claim in this respect for compensation or otherwise however will be admitted. Provided the cause for suspension is not attributable to any default on the contractor's part to proceed with or fulfill the contractual obligations. This may also be extended to allow for alteration of work made by the deviation order.

8. Stores and Materials

The Contractor shall, at his own cost and expense, provide all materials required for the works, other than those listed in Schedule 'B', which are to be supplied by Bharat Heavy Electricals Limited. All materials to be supplied by the Contractor shall be of the best kind as described in the specifications and the Contractor shall, if requested by the Engineer-in-charge, furnish proof to the satisfaction of the Engineer-in-charge, that the materials so comply with the specifications.

The contractor shall, at his own expense and without delay, supply samples of materials proposed to be used in the execution of the work for approval of the Engineer-in-charge, who may reject the materials not corresponding either in quality or character to the approved samples.

In the case of stores provided under Schedule 'B' the Contractor shall bear the cost of loading, transporting to site, unloading, storing under cover as required assembling and jointing the several parts together as necessary and incorporating or fixing these stores materials in the work, including all preparatory work of whatever description as may be required, and of closing, preparing, loading and returning empty cases or containers to the place of issue without any extra charges.

9. Delay and Extension of Time:

if, in the opinion of Engineer-in-charge the work is delayed:

- i) by reason of abnormally bad weather, OR*
- ii) by reason of serious loss or damage by fire, OR*

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- iii) *by reason of Civil commotion, local combination of workmen strikes or lockout, affecting any of the trades employed on the work OR.*
- iv) *by delay on the part of the agency or tradesman engaged by BHEL in executing work not forming part of this contract, OR*
- v) *by reason of any other cause which in the absolute discretion of the Engineer-in-charge is (when he is the Accepting Officer of the Contract) beyond the Contractor's reasonable control, then in such case the Accepting Officer on the recommendation of the Engineer-in-charge (or higher authority) may make fair and reasonable extension in the completion dates of the individual items of work or the contract as a whole. Such extension which will be communicated to the Contractor by the Engineer-in-charge in writing shall be final and binding on the Contractor. No other claim in this respect for compensation or otherwise howsoever is admissible. Upon the happening of any such event causing delay, the Contractor shall immediately give notice thereof in writing to the Engineer-in-charge but shall nevertheless use constantly his best endeavour to prevent or make good the delay and shall do all that may reasonably be required to the satisfaction of the Engineer-in-charge to proceed with the work.*

10. Patent Rights:

The Contractor shall fully indemnify B.H.E.L or the agent, servant, or employee of B.H.E.L against any action, claim or proceeding relating to infringement or the use of any patent or design or any alleged patent or design rights, and shall pay any royalties which may be payable in respect of any article / or part thereof included in the contract.

In the event of any claims being made or action brought against B.H.E.L or any agent, or servant or employee of BHEL in respect of matters aforesaid the Contractor shall immediately be notified thereof for taking necessary action provided that payment of indemnity shall not apply when such infringement has taken place in complying with the specific directions issued by the BHEL but the Contractor shall pay any royalties payable in respect of any such use.

11. Octroi and Other Duties:

All charges on account of Octroi, Terminal or Sales Tax and/or other duties on material obtained for the work (excluding materials provided by B.H.E.L on payment) shall be borne by the contractor.

12. Royalties:

Royalties fixed from time to time as per prevalent local rules will be recovered for materials, which the Contractor may be allowed to remove from quarries situated on land which is in charge of the B.H.E.L authorities.

13. Plant and Equipment:

The Contractor, shall at his own expense, supply all tools, plant and equipment (here-in-after referred to as T & P) required for the execution of the contract other than those listed in Schedule 'C' which subject to their availability may be hired by B.H.E.L., to the Contractor or issued free for use in the execution of the work as specified in Tender Documents.

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

14. Assignment or Transfer of Contract:

The Contractor shall not, without the prior written approval of the Accepting Officer, assign or transfer the Contract or any part thereof, or any share, or interest therein to any other person. No sum of money which may become payable under the Contract shall be payable to any person other than the Contractor unless the prior written approval of the Accepting Officer to the assignment or transfer of such money is given.

14. (a) Sub Contract:

The Contractor shall not sub-let any portion of the Contract without the prior written approval of the Accepting Officer.

15. Compliance to Regulations and Bye Laws:

The Contractor shall conform to the provision of any statute relating to the work and regulations and bye-laws of any local authority and of any water and lighting Companies or Undertakings with whose system the work is proposed to be connected. He shall, before making any variation from the drawings or the specifications that may be necessitated for such connections give the Engineer-in-charge notice, specifying the variation proposed to be made and the reasons there for and shall not carry out any such variation until he has received instructions from the Engineer-in-charge in respect thereof. The contractor shall be bound to give all notice required by Statute Regulations or Bye-laws as aforesaid and to pay all fees, and taxes payable to any authority in respect thereof.

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CHAPTER III

PERFORMANCE OF THE CONTRACT

16. Security Deposit

16.1 *The Security Deposit shall be collected from the successful tenderer. The total amount of security deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.*

At least 50% of the required Security Deposit, including the EMD has to be furnished by the contractor before commencement of the work.

16.2 *Security Deposit may be furnished in any one of the following forms:*

i. Cash (as permissible under the extant Income Tax Act)

ii. Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL

iii. Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL

iv. Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)

v. Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL, Trichy)

(Note: 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)

16.3 *Security Deposit can also be recovered at the rate of 10% of the gross amount progressively from each of the running bills till the total amount of the required Security Deposit is collected. 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.*

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor.

The Security Deposit shall not carry any interest

All compensation or other sums of money payable by the Contractor to BHEL, under the terms of this Contract or under any other contract with BHEL, may be deducted from the Security Deposit or realized by the sale of the Securities or from the interest arising there from or from any sums which may be due or may become due to the Contractor payable by BHEL, on any account whatsoever against this Contract or any other Contract with BHEL, and in the event of his Security Deposit being reduced by reason of such deductions or sale as aforesaid, the Contractor shall, within seven days thereafter, make good in cash or in securities endorsed as aforesaid, any sum or sums by which the Security Deposit has been so reduced.

Security Deposit is refundable only after the expiry of the maintenance period of One (1) year from the date of completion of work as stipulated in the Contract concerned.

17. Order under the contract

All orders, notices etc., to be given under the contract shall be in writing typescript or printed and if sent by registered post to the address given in the tender of the contractor, shall be deemed to have been served on the date when in the ordinary course they would have been delivered to him.

The contractor shall carry out without delay all orders given to him.

18. Admission to site

The Contractor shall not enter on (other than for inspection purposes) or take possession of the site unless permitted to do so by the Engineer-in-charge. The portions of the Site to be occupied by the Contractor will be clearly defined and marked on the site plan, and the Contractor will on no account be allowed to extend his operations beyond these areas.

The Contractor shall provide, if necessary or required at the Site, temporary access there to and shall alter, modify and maintain the same as required from time to time. He shall take out and clear away the access route when no longer required and restoring the area to its original condition.

The Engineer-in-charge shall have power to execute other works (whether or not connected with the work in the contract agreement) on the site contemporaneously with the execution of the original work and Contractor shall give reasonable facilities for this purpose.

Place
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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

B.H.E.L reserves the right of taking over, at any time, any portion of the site which they may require and the Contractor shall at his own expense clear such portion forthwith. No photographs of the Site or of the work or any part there of shall be taken, published or otherwise circulated without the prior approval of the Engineer-in-charge.

No such approval shall however exempt the contractor from complying with any statutory provisions in regard to the taking and publication of such photographs.

B.H.E.L Officials connected with the Contract shall have the right of entry to the Site at all times.

Engineer - in charge shall have the power to exclude from the site any person whose admission there to may, in his opinion be undesirable for any reason whatsoever.

19. Contractor's Supervision

The Contractor shall either himself supervise the execution of the Contract or shall appoint a competent Agent approved by the Engineer-in-charge to act in his stead. The contractor shall employ an Engineer/Agent having at least a 'Degree of Bachelor of Civil Engineering' from a recognized University/on any work with a Contract value exceeding rupees two lakhs, and having at least a Diploma in civil Engineering from a recognized college, on work with a contract value exceeding Rs. 50,000/- but not exceeding rupees two lakhs.

The Employment of an Engineer/Agent as aforesaid shall not be necessary if the Contractor himself in possession of a recognized technical qualification and is in opinion of the Engineer-in-charge capable of receiving instructions of the Engineer-in-charge and of executing the work to the satisfaction of the Engineer-in-charge. If the Contractor fails to appoint a suitable Engineer/ Agent as aforesaid, the Engineer-in-charge shall have full powers to suspend the execution of work and stop payment of any advances that may have become due until such date as a suitable Engineer/Agent is appointed and the contractor shall be held responsible for the delay caused to the work and no extension of time on this account shall be given to him as stipulated in condition (9) above.

Orders given to the Contractor's Agent/Engineer shall be considered to have the same force as if they had been given to the Contractor himself.

The contractor or his Agent shall be in attendance at the site during all working hours and shall superintend the execution of work with such additional assistance in each trade as the Engineer-in - charge may consider necessary.

Place
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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

The contractor or his accredited agent shall attend when required and without making any claim for doing so, either the Office of the Engineer-in-charge or the work site to receive instructions.

The Engineer-in-charge shall have full powers, and without assigning any reason to require the Contractor immediately to cease to employ in connection with the Contract any Agent, servant or employee whose continued employment is, in his opinion undesirable.

The Contractor shall not be allowed any compensation on this account.

LABOUR

20. *The Contractor shall employ laborer in sufficient numbers either directly or through sub-contractors to maintain the required rate of progress and of quality to ensure workmanship of the degree specified in the Contract and to the satisfaction of the Engineer-in-charge. The Contractor shall not employ in connection with the works any person who has not completed his fifteen years of age.*

The Contractor shall furnish to the Engineer-in-charge at the intervals specified by him, a distribution return of the number and description by trades of the work people employed on the works. The Contractor shall also submit on the 4th and 19th of every month to the Engineer-in-charge a true statement showing in respect of the second half of the preceding month and the 1st half of the current month

- (i) The accidents that occurred during the said fortnight showing the circumstances under which they happened and the extent of damage and injury caused by them and*
- (ii) The number of female workers who have been allowed maternity benefit as provided in the Maternity Benefit Act, 1961 or Rules made thereunder and the amount paid to them.*

The Contractor shall pay to labor employed by him either directly or through sub-contractor's wages not less than fair wages as defined in the Contractor's Labor Regulations.

The contractor shall in respect of labor employed by him either directly or through sub-contractors comply with or cause to be complied with Contractor's Labor Regulations in regard to all matters provided therein.

The Contractor shall comply with the provisions of the Payment of Wages Act 1936, Minimum Wages Act 1948, Employers liability Act 1938, Workmen's Compensation Act 1923, Industrial Disputes Act 1947, Maternity Benefit Act 1961 and Mines Act 1952, Contract Labor Regulation and Abolition Act 1970 or any modifications there of or any other law relating thereto and rules made thereunder from time to time.

The contractor shall be liable to pay his contribution and the employees' contribution to the State Insurance Scheme in respect of all labor employed by him for the execution of the contract,

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

in accordance with the provision of "The Employees State Insurance Act, 1948" as amended from time to time. In case the contractor fails to submit full details of his account of labor employed and the contribution payable, the Engineer-in-charge shall recover from the running bills of contractor an amount of contribution as assessed by him. The amount so recovered shall be adjusted against the actual contribution payable for Employees' State Insurance.

The Engineer-in-charge shall on a report having been made by an Inspecting Officer as defined in the Contractor's labor Regulations have the power to deduct from the moneys due to the Contractor any sum required or estimated to be required for making good the loss suffered by the worker or worker by reason of non-fulfillment of the Conditions of the Contract for the benefit of workers, non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the Contract or non-observance of the said Contractor's Labor Regulations.

The Contractor shall indemnify the B.H.E.L against any payments to be made under and for observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.

In the event of the Contractor committing a default or breach of any of the provisions of the aforesaid Contractor's Labor Regulations, as amended from time to time or furnishing any information or submitting or filling any form / Register/Slip under the provisions of these Regulations which is materially incorrect then on the report of the Inspecting Officers as defined in the Contractor's Labor Regulation, the Contractor shall without prejudice to any other liability pay to the B.H.E.L a sum not exceeding Rs. 50/- as liquidated damages for every default breach or furnishing, making submitting, filling materially incorrect statement as may be fixed by the Engineer-in-charge and in the event of the Contractor's default continuing in this respect, the liquidated damages may be enhanced to Rs. 50/- per day for each day of default subject to a maximum percent of the estimated cost of works put to tender.

The Engineer in charge shall deduct such amount from bills or security deposit of the Contractor and credit the same to the Welfare Fund constituted under Regulations. The decision of the Engineer-in-charge in this respect shall be final and binding.

Model Rules for Labor Welfare

The Contractor shall at his own expense comply with or cause to be complied with Model Rules for Labor welfare as appended to these Conditions or rules framed by Government from time to time for the protection of health and for making sanitary arrangements for workers employed directly/or indirectly on the works. In case the Contractor fails to make arrangements as aforesaid, the Engineer-in-charge shall be entitled to do so and recover the cost thereof from the Contractor.

Safety Code

The Contractor shall at his own expense arrange for the safety provisions as appended to these conditions or as required by the Engineer – in – charge, in respect of all labor directly or indirectly employed for performance of the works and shall provide all facilities in connection therewith.

Place
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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

In case the Contractor fails to make arrangements and provide necessary facilities as aforesaid, the Engineer– in–charge shall be entitled to do so and recover the cost thereof from the Contractor.

Failure to comply with model Rules for Labor Welfare, Safety Code, or the provisions relating to report on accidents and to grant of maternity benefits to female workers shall make the Contractor liable to pay to the B.H.E.L as liquidated damages an amount not exceeding Rs. 50/- for each default or materially incorrect statement. The decision of the Engineer–in–charge in such matters based on reports from the Inspecting Officers as defined in the Contractor’s Labor Regulation as appended to these conditions shall be final and binding and deductions for recovery of such liquidated damages may be made from any amount payable to the Contractor.

WATER

21. *The Contractor shall allow in his Tender and provide at his cost all water required for the work or his employees on the work, together with all pipes and fittings or other means that may be necessary or required to ensure a proper and ample supply of water for all purposes connected with the work.*

Water will be supplied from the BHEL supply system, or other sources at one point fixed by the Engineer-in-charge on the site of work at free of cost. The Contractor shall make necessary arrangement for lifting pumping, carrying or conveying the water as required at his own cost.

22. Temporary Workshops, Stores Etc.

The Contractor shall, during the progress of the work provide, erect and maintain at his own expense all necessary temporary workshops, stores, offices, etc., required for the proper and efficient execution of the work. The planning, siting and erection of these buildings shall have the approval of the Engineer-in-charge and the Contractor shall at all times keep them tidy and in a clean and sanitary condition to the entire satisfaction of the Engineer-in-charge.

On completion of the work all such temporary buildings shall be cleared away and the site restored and left in a clean and tidy condition to the entire satisfaction of the Engineer-in-charge.

23. Stores and Materials on Site

All stores and materials required for the work are to be deposited by the Contractor only in places to be indicated by the Engineer-in-charge.

Where in accordance with the contract stipulations certain Stores & Materials (for incorporation in the work) are to be issued to the Contractor by the BHEL as detailed under Schedule 'B' such items will be so issued only to the extent required for the actual completion of the work as

Place
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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

stipulated in the contract. The decision of the Engineer-in-charge regarding the quantities to be issued as above shall be final and binding on the contractor. For any excess quantities consumed on the work upto 5% over the theoretical consumption will be charged at issue rates and excess consumption beyond this limit, their cost will be recovered from the Contractor at punitive rates which will be 100% (Hundred Percent) more than the issue rates of the BHEL as specified in the Instructions to the Tenderers.

In regard to the materials and stores which may be issued to the Contractor by BHEL the Contractor shall give the Engineer-in-charge reasonable notice in writing of his requirements of such stores and materials and on the approval of his demand being notified to him, he shall make immediate arrangements for drawing the same. Such stores and materials shall be transported by the Contractor at his own expense direct from the place of issue to the site of the work, unless prior written approval is obtained from the Engineer-in-charge to take them to a Store or Workshop elsewhere.

The Contractor shall have to build a weather proof shed for the storage of cement required for 15 days' consumption of the work.

BHEL Officers connected with the Contract shall have the power at any time to inspect and examine any stores or materials intended to be used in or on the work, whether on the site or at any factory or workshop or other place where such stores or materials are being fabricated or manufactured or at any place where the same are lying and the contractor shall give necessary facilities for such inspection and examination.

The Engineer-in-charge shall be entitled to have tests made of any stores or materials supplied by the Contractor who shall provide at his own expense all facilities which the Engineer-in-charge may require for this purpose. If at the discretion of the Engineer-in-charge an independent expert is employed to make any such tests his charges shall be borne by the Contractor only if the test discloses that the said stores or materials are not in accordance with the provisions of the Contract.

Should the Engineer-in-charge consider at any time during the construction or re-construction, on prior to the expiry of the "MAINTENANCE PERIOD" that the stores or materials provided by the Contractor are unsound or of a quality inferior to that contracted for or otherwise not in accordance with the contract (in respect whereof the decision of the Engineer-in-charge shall be final and conclusive) the Contractor, shall on demand, in writing from the Engineer-in-charge specifying the Stores or materials complained of, notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith remove the stores or materials so specified and provide other proper and suitable stores or materials at his own expense; to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by the Engineer-in-charge in his demand aforesaid the Engineer-in-charge may replace within others the stores or materials complained of at the risk and expense in all respects of the Contractor. The liability of the contractor under this condition shall not extend

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

*beyond the maintenance period aforesaid except as regards stores or materials which the Engineer-in-charge shall have previously given notice to the contractor to replace. (*MAINTENANCE PERIOD for any work under this Organisation will be SIX MONTHS FROM THE DATE OF ACTUAL COMPLETION of the particular work and handing over to B.H.E.L).*

All stores and materials brought to the Site shall become and remain the property of B.H.E.L and shall not be removed from the site without prior written approval of the Engineer-in-charge. However, when the work is finally completed, the Contractor shall at his own expense forthwith remove from the site all surplus stores or materials originally supplied by him and upon such removal, the same shall revert in and become the property of Contractor. All B.H.E.L Stores and materials issued to Contractor for in-incorporation or fixing in the work and which, making due allowance for reasonable wear and tear/or waste, have not on completion of the work been so incorporated or fixed, shall be returned by the Contractor at his own expense to the place of issue.

Credit for surplus stores and/ or materials returned by the contractor to B.H.E.L will be given to him at a price based on the prevailing market rate but not exceeding that at which the said stores and materials were originally issued to him but due consideration shall be given to the allowance claimed by B.H.E.L in respect or any depreciation or damage suffered by the stores and/or materials whilst in the custody of the Contractor regarding which the decision of Engineer-in-charge shall be final and conclusive.

If, in the opinion of the Engineer-in-charge (which shall be final and conclusive) any stores, supplied by B.H.E.L have either during currency of the work or after completion of the work whilst under the custody of the Contractor, become damaged to such an extent that they cannot be usefully utilized, either in the same work or in other works, the Engineer-in-charge shall not accept the stores and in the event of his rejection the contractor shall be charged for the said Stores at a rate as fixed by the Accepting Officer. The Contractor shall not be entitled to any claim whatsoever on this account.

24 Tools and Plants on site:

All tools, plants and equipment brought to the site shall become the property of B.H.E.L and shall not be removed from the site without the prior written approval of the Engineer-in-charge when the work is finally completed or the Contract is determined for reasons other than the default of the Contractor he shall forthwith remove from the site all tools, plants, equipment etc., (other than those as may have been provided by B.H.E.L) and upon such removal, the same shall in, and become the property of the Contractor.

25. Statement of Hire Charges:

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

A monthly detailed statement of the hire charge incurred in respect of B.H.E.L tools, plants, equipment etc., shall be given to the Contractor by the Engineer-in-charge.

26. Precaution Against risks:

The Contractor shall be responsible for providing at his own expense, for all precautions to prevent loss or damage from any and all risks and to minimize the amount of any such loss or damage and for the necessary steps to be taken for the said purpose until the works have been handed over complete in all respect of the Engineer-in-charge.

The Contractor shall provide all watchmen necessary for the protection of the site, the work, the materials, tools, plants, equipment and anything else lying on the Site during the progress of the work. He shall be solely responsible for and shall take all reasonable and proper steps for protecting, securing, lighting and watching, all places on or about the work and the Site which may be dangerous to any person whomsoever.

27. Notices and Fees:

The Contractor shall give all notices required by any Statutory provision or by the regulations and/or bylaws of any local Authority and/or of any Public Service, Company or Authority affected by the work or with whose system the same are or will be connected. The Contractor shall pay and indemnify B.H.E.L against any fees and charges payable under such Acts. Regulation and/or byelaws in respect of the work and shall make and supply all drawings and plans required in connection with any such notice.

28. Setting out of the Works and Protective and Maintaining Signals and Works:

The Engineer-in-charge shall supply dimensioned drawings, levels and other information necessary to enable the contractor to set out the work. The Contractor shall at his own expense set accurately according to the drawings and figured dimension thereon, all the work comprised in the contract and any extras or additions there-to and shall be solely responsible for their being so set out and executed. All bench marks, pegs, signals on the surface, alignment stones, milestones and all similar marks whether put in by B.H.E.L Authorities for the purpose of checking the Contractor's work or in the nature of permanent survey marks will during the tenure of the contract, be under the care of the Contractor who shall, at his own expense, take, all proper and reasonable precautions and care to preserve and maintain them in their true position. In the event of these marks being disturbed or obliterated by accident or due to any other cause whatsoever, the same may, if deemed necessary, be replaced by the Engineer-in-charge at the Contractor's expense and the cost thereof deducted from any money then or thereafter becoming due to the Contractor.

Where requested by the Contractor, the level marks, center line and chainage pegs corresponding to those shown on the Drawing will be pointed out to the Contractor on the

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

ground but all bench marks or chainage pegs additional to those shown on the Drawing will be set out by BHEL authorities.

29. Site Drainage:

All water that may accumulate on the site during the progress of the work or in trenches and excavations shall be removed to the entire satisfaction of the Engineer-in-charge and at Contractor's expense.

30. Excavations, Relics Etc.

Material of any kind obtained from excavation on the site shall remain the property of BHEL and shall be disposed of as Engineer-in-Charge directs.

All gold, silver, oil and other minerals of any description and all precious stones, coins, treasures, relics, antiques and other similar items which may be found in or upon the site shall be the property of Bharat Heavy Electricals Limited and the Contractor shall duly preserve the same to the satisfaction of the BHEL and shall from time to time deliver the same to such person or persons as the B.H.E.L may appoint to receive the same.

31. Foundations

The Contractor shall not lay any foundations until the excavations for the same have been examined and approved in writing by the Engineer-in-charge.

32. Covering-in Work

The Contractor shall give reasonable notice in writing to the Engineer-in-charge whenever any work is to be permanently covered up or concealed, whether by earth or other means so that it can finally be inspected or measured if necessary. In default of so doing, the Contractor shall, if required by the Engineer-in-charge uncover such work at his own expense.

33. Approval of works by Stages:

All work embracing more than one process shall be subject to examination and approval at each stage thereof and the Contractor shall give due notice in writing to the Engineer-in-charge when each stage is ready. In default of such notice being received, the Engineer-in-charge shall be entitled to approve the quality and extent thereof at any time he may choose and in the event of any dispute, the decision of the Engineer-in-charge thereon shall be final and conclusive.

34. Execution of the Work:

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

The work shall be executed in a workman-like manner and to the satisfaction in all respects of the Engineer-in-charge.

The Engineer-in-charge will communicate or confirm his instructions to the Contractor in respect of the execution of the Work in a "Work Site Order Book" maintained at his office and the Contractor shall visit this office daily and shall confirm receipt of such instructions by signing the relevant entries in this book. Such entries will rank as order or notices in writing within the intent and meaning of these conditions.

35. Day Work:

No day-work shall be performed without the prior written instructions of the Accepting Officer.

The Contractor shall give to the Engineer-in-charge reasonable notice of the start of any work ordered to be executed by day-work and shall deliver to the Engineer-in-charge within two days of the end of each pay week a return in duplicate giving full detailed accounts of labor and materials for that pay-week. One copy of each of these returns, if found correct, will be certified by the Engineer-in-charge and returned to the contractor and must be produced at the time of adjustment of accounts.

An invoice in duplicate signed by the Contractor or his agent shall be sent with each delivery of materials for day-work and the Contractor will be furnished with a receipt signed by the Engineer-in-charge specifying the description, quantities weight or measurement (as the case may be) of the articles approved, reference will be made in this receipt in the return aforesaid and the Contractor's Bill.

In the case of Lump sum Contracts, the rates to be charged and the percentage addition for profit and establishment charges, etc., will be agreed upon between the Accepting Officer and the Contractor prior to the execution of the work.

36. Inspection of the Work:

B.H.E.L Officers concerned with the Contract shall have power at any time to inspect and examine any part of the work and the Contractor shall give such facilities as may be required to be given for such inspection and examination Should Engineer-in-charge consider, at any time during the expiry of the maintenance period, that any work has been executed with unsound, imperfect or unskilled workmanship or of a quality inferior to that contracted for or not otherwise in accordance with the contract (in respect) whereof the decision of the Engineer-in-charge shall be final and conclusive the Contractor shall on demand in writing from the Engineer-in-charge specifying the fault notwithstanding that the same may have been inadvertently passed, certified and paid for, forthwith rectify or remove and reconstruct the work so specified in whole or in part as the case may be required at his own expense to the entire satisfaction of the Engineer-in-charge and in the event of his failing to do so within a period to be specified by

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

the Engineer-in-charge in his demand as aforesaid, the Engineer-in-charge may carry out the work by other means at the risk and expense in all respects of the Contractor. However, the liability of the Contractor under this condition shall not extend beyond the maintenance period except as regards workmanship which the Engineer-in-charge shall have previously given notice to the Contractor to rectify.

37. Responsibility for Building:

In the event of any building or part of any building being handed over to the Contractor for the execution of work thereto under the provisions of the Contract, he shall give a written receipt for all fixtures, glass etc. and he shall be required to make good at his own expense all damages resulting from any cause whatsoever while in his charge and on completion of the work to deliver the said building or part thereof in a clean state complete in every particular to the entire satisfaction of the Engineer-in-charge.

38. Insurance

The contractor shall within one month after the date of the acceptance of the contract, insure the work against loss or damage to the contract works, temporary work and materials erected in performance of the contract on "all risks" basis from the time of arrival on site until taken over by BHEL on completion of the contract.

The cover shall also include wherever necessary the risks of testing including breakdown or explosion of plant and machinery undergoing testing, trial and commissioning operations. The insurance shall also specifically cover removal of debris cost. The sum insured shall represent the estimated full value of the contract works inclusive of value of free supply materials by BHEL, transport charges, customs dues, express freight, overtime charges, cost of erection, value of constructional plants and machinery, removal of debris and escalation of costs where the contract includes a maintenance period, the insurance cover shall specifically include the contractors' liabilities during the maintenance period. The insurance shall also be extended to cover third party personal injury and property damage for a sum to be specified by BHEL. The insurance shall be effected in the name of BHEL and the contractor shall submit to BHEL a draft of the insurance policy for approval. The policy when issued will be lodged with BHEL together with receipts of premium for such insurance and the contractor shall maintain such policies in force until the obligations of the contractor are fully discharged.

If the contractor fails to comply with the terms of this condition the Accepting officer may insure the work and may deduct the amount of premiums from any money that may become payable to the contractor or may at his discretion refuse payment of any advances to the contractor until the contractor shall have complied with the terms of this condition. This provision does not, however, absolve the contractor of his responsibility for taking up the insurance. The contractor is, therefore, primarily responsible for taking up the insurance in time.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

39. Damage and loss to private property and injury to workmen

The contractor shall at his own expense reinstate and make good to the satisfaction of the Engineer-in-charge and pay compensation for any injury, loss or damage occasioned to any property or rights whatever including property and rights of B.H.E.L, (or agents, servants or employees of B.H.E.L) the injury loss or damage arising out of or in any way in connection with the execution or purported execution of the contract and further the contractor shall indemnify B.H.E.L, against all claims enforceable against B.H.E.L, or any agent, servant, or employee of B.H.E.L a private person, in respect of any such injury (including injury resulting in death loss or damage to any person) whosoever or property, including all claims which may arise under the workmen's Compensation Act or otherwise, or which would be enforceable against B.H.E.L.

40. Completion

The works shall be completed to the entire satisfaction of the Engineer-in-charge and in accordance with the Contractor's forecast of Time and Progress where operative, and all unused stores and materials, tools, plants, equipment, temporary buildings and things shall be removed and the site and work cleared of rubbish and all waste materials and delivered up clean and tidy to the satisfaction of the Engineer-in-charge at the Contractor's expense and/or before the Scheduled date of completion.

The B.H.E.L shall have power to take over from the Contractor from time to time each sections of the work as have been completed to the satisfaction of the Engineer-in-charge.

In case the Contractor fails to remove any of his properties, assets or fails to clear the rubbish and waste materials within 30 days of the completion of the contract, it is lawful for the contractee, that is BHEL to take such action as it deems fit to clear dispose of such properties, assets or such waste materials and charge the contractor any expenses incurred thereon.

The Engineer-in-charge shall certify to the Contractor the date on which the work is completed and the state thereof.

The Engineer-in-charge shall also certify to the Contractor the state of the work at the end of maintenance period, where applicable.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

41. Compensation for Delay:

If the contractor fails to maintain the required progress in terms of condition 7 or to complete the work and clear the site on or before the contracted or extended period of completion, he shall, without prejudice to any other right or remedy of the B.H.E.L on account of such breach, pay as agreed compensation an amount calculated as stipulated below or such smaller amount as may be fixed by the BHEL on the contract value of the work for every week that the progress remains below that specified in condition 7 or that the work remains incomplete.

This will also apply to items or group of items for which separate period of completion has been specified.

For this purpose, the term 'Contract Value' shall be the value at contract rates of the work as ordered.

- a) Completion period (as originally-stipulated) -- at 1 percent per week.
Not exceeding 6 months.*
- b) Completion period (as originally-stipulated) -- at ½ percent per week
Exceeding 6 months and not exceeding 2 years.*
- c) Completion period (as originally-stipulated) -- at¼ percent per week
Exceeding 2 years.*

Provided always that the total amount of compensation for delay to be paid under this condition shall not exceed the under noted percentage of the contract value or of the contract value of the item or group of items of work for which a separate period of completion is given:

- a) Completion period (as originally-stipulated) -- 10 percent.
Not exceeding 6 months.*
- b) Completion period (as originally-stipulated) -- 7½ percent.
Exceeding 6 months and not exceeding 2 years.*
- c) Completion period (as original-stipulated) -- 5 percent.
Exceeding 2 years*

The amount of compensation may be adjusted or set-off against any sum payable to the Contractor under this or any other contract with the B.H.E.L.

42. Laws Governing the Contract:

This contract shall be governed by the Indian Laws for the time being inforce.

43. Cancellation of Contract for Corrupt Acts:

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

The Accepting Officer, whose decision shall be final and conclusive, shall, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to Bharat Heavy Electricals Limited, cancel the contract in any of the following cases and the Contractor shall be liable to make payment to B.H.E.L for any loss or damage resulting from any such cancellation for default.

If the Contractor shall:

*a. Offer or give or agree to give to any person in BHEL service any gift or consideration of any kind as an inducement or reward for doing or for bearing to do or for having done or forborne to do a day act in relation to the obtaining or execution of this or any other contract for BHEL service **OR***

*b. Enter into a contract with B.H.E.L in connection with which commission has been paid or agreed to be paid by him or with his knowledge, unless the particulars of any such commission and the terms of payment thereof have previously been disclosed in writing to the Accepting Officer, **OR***

c. Obtain a contract with B.H.E.L as a result of ring tendering or by non-bonafide methods of competitive tendering without first disclosing the fact in writing to the Accepting Officer.

44. Cancellation of Contract for Insolvency, Assignment or Transfer or Sub-Letting of Contract:

The Accepting Officer, without prejudice to any other right or remedy which shall accrue thereafter to B.H.E.L shall cancel the contract in any of the following cases:

If the Contractor,

*a) Being an individual, or if a firm any partner thereof shall at any time be adjudged bankrupt or have a receiving order or orders for administration of his Estate made against him or shall take any proceedings, for liquidation or composition under any Bankruptcy Act for the time being in force or make any conveyance or assignment of his effects of composition or arrangement for the benefit of his creditor or purport to do so, or if any application be made under any Bankruptcy Act for the time being in force for the sequestration of his Estate or if a trust deed be granted by him on behalf of his creditors, **OR***

*b) Being a Company, shall pass a resolution or the Court shall make an order for the liquidation of its affairs, or a Receiver or Manager on behalf of the debentures holders shall be appointed or circumstances shall arise which entitle the court or debentures holders to appoint a Receiver or Manager **OR.***

*c) Assigns, transfers, sub-lets or attempts to assign, transfer or sub-let any portion of the work without the prior written approval of the Accepting Officer. **OR***

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

d) *Shall suffer an execution being levied on his goods and allow it to be continued for a period of 21 days.*

Whenever the Accepting Officer exercises his authority to cancel the Contract under this condition, he may complete the work by any means at the Contractor's risk and expense provided always that in the event of cost of the completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost, the advantage shall accrue to the BHEL and that if the cost of completion exceeds the money due to the Contractor under the contract, the Contractor shall either pay the excess amount ordered by the Engineer-in-charge or the same shall be recovered from the Contractor by other means.

Engineer-in-charge will have powers to take possessions of the site and any materials, constructional plant, implements, stores, etc, thereon and or carryout the work by any means at the risk and cost of the contractor.

In case the BHEL completes the work under the provisions of this condition the cost of such completion to be taken into account in determining the excess cost to be charged to the contractor under this Condition shall consist of the cost of materials purchased and/or labor provided by the BHEL with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Project Engineer whose decision shall be final and conclusive.

If the contractor fails to pay the excess sum within a period of 30 days, the Engineer-in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc., and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor, it shall be recovered in accordance with the provisions of the contract.

45. Cancellation of contract in part or in full for contractor's default:

If the Contractor:

(a) makes default in commencing the work within a reasonable time from the date of handing over of the site and continue in that state after a reasonable notice from Engineer-in-charge, OR

(b) in the opinion of the Engineer-in-charge at any time, whether before or after the date or extended date for completion, makes default in proceeding with the work, with due diligence and continue in that state after a notice of seven days from Engineer-in-charge, OR

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

(c) *fails to comply with any of the terms and conditions of the contract or after 7 days' notice in writing with orders properly issued there under, (OR)*

(d) *fails to complete the work order and items of work individual dates for completion and clear the site on or before the date of completion or fails to achieve the progress as set out under clauses 7 of these General Conditions of Contract.*

The Accepting Officer may, without prejudice to any other right or remedy which shall have accrued or shall accrue thereafter to B.H.E.L cancel the contract as a whole or in part thereof or only such work order or items of work in default from the contract. Whenever the Accepting Officer exercises his authority to cancel the contract as a whole or in part under this conditions he may complete the work at the Contractor's risk and cost, provided always that in the event of the cost of completion (as certified by Engineer-in-charge which is final and conclusive) being less than the contract cost the advantage shall accrue to the B.H.E.L if the cost of completion exceeds, the money due to the contractor under this contract, the contractor shall either pay the excess amount ordered by Project Manager or the same shall be recovered from the contractor by other means. Engineer-in-charge will have power to take possession of the site and any materials, constructional plant, implements, Stores, etc., thereon.

In case the B.H.E.L completes the work or any part thereof under the provisions of this conditions the cost of such completion to be taken in to account in determining the excess cost to be charged to the contractor under this conditions shall consist of the cost of materials purchased and/or labor provided by the B.H.E.L with an addition of such percentage to cover superintendence and establishment charges as may be decided by the Project Manager/Engineer whose decision shall be final and conclusive.

If the contractor fails to pay the excess sum within a period of 30 days, the Engineer-in-charge shall have the right to sell any or all of the contractor's unused materials, constructional plant implements, temporary buildings, etc, and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if thereafter be any balance outstanding from the contractor it shall be recovered in accordance with the provision of the contract.

46. Termination of Contract for Death

Without prejudice to any of the rights or remedies under this contract if the contractor dies, the accepting Officer shall have the opinion of terminating the contract without compensation to the contractor.

47. Special Powers of Determination

If at any time after the acceptance of the tender B.H.E.L shall for any reason whatsoever not require the whole or any part of the work, to be carried out the project Manager/ Engineer shall

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

give notice in writing of the fact to the Contractor who shall have no claim to any payment of compensation or otherwise howsoever on account of any profit or advantage which he might have derived from the execution of the work in full but which he did not derive in consequence of the foreclosing of the work.

He shall be paid at Contract rates, for the full amount of the work executed including such additional works, e.g. clearing of site, etc., as may be rendered necessary by the said fore closing. He shall also be allowed a reasonable payment (as decided by the Accepting Officer) for any expenses sustained on account of labor and materials collected but which could not be utilized on the work, as verified by the Engineer-in-charge. Neither shall the Contractor have any claim for compensation on account of any alterations having been made in the original specifications, drawings, designs and instructions, involving any curtailment of the work as originally contemplated.

48. Fair Wage

a) *The contractor shall pay not less than the “Fair Wage” to laborers engaged by him on the work.*

“Fair Wage” means wage whether for time or piece work notified at the time of inviting tenders for the work and where such wages have not been notified the wages prescribed by the Project Manager/Engineer for the stations at which the work is done.

b) *The Contractor shall not withstanding the provision of any contract to the contrary, cause to be paid a “Fair Wage” to laborers indirectly engaged on the work, including any labor engaged by the Sub-Contractors in connection with the said work, as if the laborers had been directly employed by him.*

c) *In respect of laborers directly or indirectly employed on the work for the performance of the Contractors part of this Agreement, the Contractor shall comply with or cause to be complied with B.H.E.L Contractor’s Labor Regulations in regard to payment of wages, wage period deduction from wages, recovery of wages not paid and deductions unauthorized made, maintenance of wage book, wage-slips publication of scale of wage and other terms of employment inspection and submission of periodical returns and all other matters of alike nature.*

d) *The Engineer-in-charge concerned shall have the right to deduct from the money due to the contractor any sum required or estimated to be required for making good the loss suffered by a worker or workers by reason of non-fulfilment of the conditions of the contract for the benefit of the worker’s non-payment of wages or of deductions made from his or their wages which are not justified by the terms of the contract or non-observance of the regulations.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- e) *The Contractor shall be liable primarily for all payments to be made under the contract and for the observance of the Regulations aforesaid without prejudice to his right to claim indemnity from his sub-contractors.*
- d) *The regulations aforesaid shall be deemed to be a part of this contract and any breach thereof shall be deemed to be a breach of this Contract.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CHAPTER IV

VALUATION AND PAYMENT

49. Records and Measurements:

All items having a financial value shall be entered in the B.H.E.L Measurement Book/ e-Measurement Book, so that a complete record is obtained of all works performed under the Contract.

Work carried out for agreed rates will be described and similarly recorded.

Lumpsum omissions will be entered for deduction. Measurement shall be restricted to that required to ascertain the financial liability of B.H.E.L under the contract.

Work which fails to be measured in detail shall be measured physically, without reference to any local custom that may obtain excepting where it may otherwise be directed in the tender documents. The measurements shall be taken jointly by any person duly authorized on the part of the BHEL and by the Contractor.

The Engineer-in-charge shall give reasonable notice in writing to the Contractor of appointment for measurement.

The Contractor shall, without extra charge, provide assistance with appliance and other things necessary for measurement.

The Contractor shall bear all the cost of measurement of his work.

Measurement shall be entered in the B.H.E.L Measurement Book and signed and dated by both parties each day at the Site on completion of measurement. If the Contractor objects to any of the measurements recorded on behalf of the B.H.E.L a note to that effect will be made in the BHEL Measurement Book or against the item or items objected to; and such note shall be signed and dated by both the parties engaged in taking the measurement.

If, as a result of such objection, it becomes necessary to re-measure the work wholly or in part, the expense of such re-measurement shall be borne by the party requiring the measurement.

Measurement to be re-taken, provided that a net error is found by this re-measurement to amount to less than 5% (five percent) of the value as recorded by the first measurement. But, where the net errors amount to 5% and over of the said value, then the cost is to be borne by the other party. In any case, if the net value of errors found exceeds Rs. 500/- the expense of re-measurement is to be borne by the other party. If the Contractor's representative fails to attend

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

when required, the Engineer-in-charge shall have power to proceed by himself to take measurement and in that case these measurements shall be accepted by the Contractor as final.

The contractor shall, once every month, submit to the Engineer-in-charge with a copy to the Civil Manager/Senior Engineer details of his claims for the work done by him up to and including the previous month which are not covered by his Contract Agreement in any of the following respects;

- a. Deviation from the items and Specifications provided in the contract documents.*
- b. Extra Items/New Items of work*
- c. Quantities in excess of those provided in the contract schedule.*
- d. Items in respect of which rates have not been settled. He should, in addition furnish a clear certificate to the effect that the claims submitted by him as aforesaid cover all his claim and that no further claims shall be raised by him in respect of the work done up to and including the period under report.*

Except where any general or detailed description of the work in quantities expressly shows to the contrary, schedule of quantities shall be deemed to have been prepared and measurements shall be taken in accordance with

the procedure set forth in the schedule of rates specification notwithstanding any provision in the relevant standard method of measurement or any general or local custom. In the case of items which are not covered by the schedule of rates / specification, measurements shall be taken in accordance with relevant standard method of measurement issued by the Indian Standard Institution or as per standard engineering practice.

50. Valuation of Deviations:

Rates for deviated items of work will be fixed as follows: -

1. For any item of work required to be carried out after the contract has been awarded and which is not covered by Contractor's Schedule but is covered by B.H.E.L Schedule of rates the rate payable for such a fresh item will be derived from B.H.E.L Schedule by the method of proportion as follows:

a. In the same proportion to rate in B.H.E.L Schedule of Rates as the tendered rate for the nearest analogous item of work in Contractor's schedule bears to rate for the particular analogous item of work in B.H.E.L Schedule of rates.

b. If a single appropriate analogous item of work is not available in both Schedule (Contractor's and B.H.E.L Schedule) then the method of proportion will be applied to the nearest analogous group of items available in both the Schedules referred to i.e. in the same proportion as the total tendered cost of that particular group of items (the sum of the products of the

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

tendered rates and the quantities for which orders are placed bears to the total cost of the same items and quantities at the B.H.E.L Schedule of Rates.

c.If even an appropriate analogous group of items is not available in Contractor's Schedule and B.H.E.L Schedule, then the methods of proportion will be applied to all those items of the whole work, which are available in both the Schedules and for which orders have been placed on the contractor, i.e., in the same proportion as the total cost of all these items of work (the sum of the products of the tendered rates and the quantities for which orders are placed) bears to the total cost of the same items and qualities at the B.H.E.L Schedule of Rates.

II. If any work not covered by any of the foregoing is ordered on the Contractor, the basis of payment shall be decided by the Accepting Officer whose decision shall be final and conclusive and binding on the parties.

The selection of analogous items or analogous group of items referred to above shall be done by the Engineer-in-charge. Where the rates for deviated items or new items of work can be derived by the selection of different analogous items or analogous group of items, the lowest of all such derived rates shall be taken as the correct rate.

In the case of the contracts for which the Engineer-in-charge is the Accepting Officer, all disputes regarding the settlement of rates of deviated or new items or work shall be referred to the Deputy Manager/Manager whose decision shall be final and conclusive as the case may be.

51. Reimbursement / Refund on Variation in Price, Materials:

The Tendered rate is fixed throughout the Contract Period without entitling the tenderer for any Price Variation.

52. Advances on Account:

Not Applicable.

53. Final Bill

As soon as possible after the completion of the work to the satisfaction of the Engineer-in-charge, the contractor shall forward a certified final account on BHEL form, in duplicate. It shall be accompanied by all abstracts, vouchers etc., in support thereof and shall be prepared in the manner prescribed by the Engineer-in-charge. No claims will be entertained after the receipt of the final bill. The Contractor shall be entitled to be paid the final sum less the value of payments already made on account subject to certification of the final bill by the Engineer-in-charge. Any sums due from the contractor on account of Tools & Plant, Stores or any other items provided by BHEL not yet recovered from the contractor shall be deducted from the final sum aforesaid. No charge shall be allowed to the Contractor on account of the preparation of the final bill.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

54. Payment of Bills

Payments shall be made to the contractor only through NEFT/ RTGS and the contractor has to submit the EFT form to Finance department for enabling the payment.

55. Recovery from Contractor:

Whenever under the contract any sum of money shall be recoverable from or payable by the contractor the same may be deducted from any sum then due or which at any time thereafter may become due to the Contractor under the contract or under any other Contract with BHEL or from his Security Deposit or he shall pay the claim on demand.

56. Post Technical Audit of Work and Bills:

BHEL reserves the right to carry out a post-payment audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and to enforce recovery of any sums becoming due as a result thereof in the manner provided in the preceding sub-paragraphs provided however that no such recovery shall be enforced after three years of passing the final bill.

57. Refund of Security Deposit:

Security Deposit mentioned in condition 16 above, may be refunded to the contractor in respect of all contracts on expiry of the maintenance period, (described under clause 23) provided the contractor shall have rendered a "No-Demand" Certificate. In case of works where maintenance period is not involved 100% of the Security Deposit may be refunded after payment of final bill provided that the contractor shall have rendered a "No-Demand Certificate".

58. Arbitration:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Executive Director / General Manager of BHEL and if ED is unable or unwilling to act, to the sole arbitration of some other person appointed by the ED / General Manager, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Manager / Senior Engineer / Engineer-in-charge is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of B.H.E.L and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

The arbitrator to whom the matter is originally referred being transferred or vacating his office or being unable to act for any reason, such Executive Director / General Manager as aforesaid at the time of such transfer, vacation of office or inability to act, shall appoint another person to act as arbitrator in accordance with the terms of the contract. Such person shall be entitled to proceed with the reference from the stage at which it was left by his predecessor.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Subject as aforesaid the provision of the Arbitration & Reconciliation Act, 1996 or any statutory modification or re-enactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

It is a term of the contract that the party involving arbitration shall specify the dispute or disputes to be referred to arbitration under this clause together with the amount or amounts claimed in respect of each such dispute.

The arbitrator(s) may from time to time with consent of the parties enlarge the time for making and publishing the award.

The work under the Contract shall, if reasonably possible, continue, during the arbitration proceedings and no payment due or payable, to the Contractor shall be withheld on account of such proceeding.

*The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings.
The arbitrator shall give a separate award in respect of each dispute or difference referred to him.*

*The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.
The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.*

In the event of disputes or differences arising between one public sector enterprise and a Govt. Department or between two public sector enterprises the above stipulations shall not apply the provisions of BPE office memorandum No. BPE/CL 001/ 76MAN / 2 (1.10) 75-BPE (GM-1) dated 1st January 1976 or its amendments for arbitration shall be applicable.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

SPECIAL CONDITIONS OF CONTRACT

1. *No night work will be permitted without the written permission of the Engineer – in – charge.*
2. *Bulkage test on the sand to be used on the work should be conducted periodically to arrive at the correct quantity of sand to be mixed for the different proportions as and when required.*
3. *Items of work other than those mentioned in the Bill of Quantities (Tender Schedule) attached hereto will be carried out at the rates to be fixed by this organization as per relevant clauses of the General Conditions of Contract.*
4. *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.*
5. *On the written request from the contractor **Electrical energy required for the work may be given by this organization at any one point at the site of work at free of cost.** BHEL does not accept any liability whatsoever for non-supply, delay in supply or failure of supply of electrical energy. Contractor shall ensure that there is no wastage of electrical energy otherwise supply is liable to be stopped at contractor's risk and cost. The contractor shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution.*
6. *On the written request from the contractor **Compressed air for the work will be provided by this organization at only one point near the site of work at free of cost.** The contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jackhammer with silencer wherever BHEL is not in a position to supply compressed air.*
7. *Permission for erection of temporary work sheds etc., at site will have to be obtained from BHEL in writing in advance.*
8. *The works contract to be entered into with the successful tenderer will be governed by the BHEL revised General Conditions of Contract in force.*
9. *The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for under the "BHEL General Conditions of Contract and Safety Precautions" enclosed herewith.*
10. *In all matters of dispute, the decision of the General Manager, Bharat Heavy Electricals Ltd., Tiruchirappalli – 620 014. Thirumayam – 622 507, shall be final and binding on the tenderer / contractor.*
11. *Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

12. All the materials to be used in the work and nature of work shall conform to respective TNBP, IS and National Buildings Organisation Standard Specifications and shall be got approved by the Engineer – in – charge before actual incorporation in the work

13. Unless otherwise indicated in the Bill of Quantities cement, reinforcement steel (MS rods, CTD bars etc.), structural steel sections and other items (as mentioned in Schedule B) will be issued at BHEL Stores at free of cost. The Contractor's quoted rates shall therefore be inclusive of the cost of conveyance of these items from BHEL Stores to site of work including, loading, unloading and other incidental costs etc. The quantities of each items to the extent required for actual incorporation of the work will be treated as ISSUED FREE OF COST.

14. CEMENT:

Excess consumption of cement over and above the theoretical requirement as per BHEL Data up to a limit of 5% will be charged at the rate of Rs. 6,668/per M.T. + applicable taxes at the time of recovery. Consumption beyond 5% will be charged at the punitive recovery rate of Rs.13, 336/per M.T.+ applicable taxes at the time of recovery.

The above rates are only indicative and BHEL issue rate on date of actual issue will be applied.

15. REINFORCEMENT STEEL:

All surplus reinforcement rod with the contractor shall be returned to BHEL Stores at his own cost in the form of full lengths, useful cut bits and scrap. The invisible (non-returnable) wastage should not exceed a maximum of 0.5% of the actual quantity consumed in the work.

The contractor shall return all the scrap to the disposal stores at his own cost. Bent rods will also be taken as scrap only, irrespective of their length. The maximum permissible limit of scrap without recovery is 5% of actual consumption. The recovery details for the materials are as follows:

- | | | | |
|----|---|---|--|
| a) | Single recovery rate for the non-returned scrap up to 5% of actual consumption | : | Rs. 49,547/- per M.T. + applicable taxes at the time of recovery |
| b) | The punitive recovery rate for steel qty. not accounted and extra scrap generated beyond 5% of actual consumption | : | Rs. 99,095/- per M.T. + applicable taxes at the time of recovery |

The above rates are only indicative and BHEL issue rate on date of actual issue will be applied.

16. STRUCTURAL STEEL SECTIONS:

All surplus raw steel remaining with the contractor shall be returned to BHEL stores at his own cost after completion of fabrication, in the form of full lengths, useful cut bits and scrap. The following yardstick will be adopted for the purpose of classification of scrap.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

(a) Mild steel and alloy steel plates and sheets	1000X500mm and above	Useful cut bit
(b) Mild steel and alloy steel plates and sheets	Less than 1000 X 500 mm	Scrap
(c) Structural	One metre and above in length	Useful cut bits
(d) Structural	Less than one metre in length	Scrap

The invisible (Non-returnable) wastage should not exceed a maximum of 2% by weight of fabricated steel work and returnable wastage generated by way of scrap or useful cutbits shall be returned at "Actuals". Maximum permissible limit for scrap without recovery shall be 5% of actual fabricated quantity. However, every care should be taken to see that raw steel is utilized most economically by preparing necessary cutting lists to restrict the scrap within the permissible limit.

Should the quantum of invisible wastage exceed the 2% permissible limit, RECOVERY AT TWO TIMES OF THE VALUE OF the extra tonnage involved (which will be evaluated on an average cost per tonne basis considering the total raw steel materials issued) will be effected from the contractor for the excess quantity involved (2 times x Rs. 48,495 = Rs.96, 990 / MT + applicable taxes at the time of recovery).

The above rates are only indicative and BHEL issue rate on date of actual issue will be applied.

The Contractor shall submit a material tallying statement on completion of the work indicating the details of quantities of each material (section by section) received quantities used for fabrication as per DOD lists. Quantity returned in full length, useful cut bits and scrap and the quantity reckoned as invisible wastage.

i) For Structural Steel:

- a) Single recovery rate for the non-returned scrap up to 5% of actual consumption : Rs. 48,495/- per M.T + applicable taxes at the time of recovery
- b) The punitive recovery rate for steel qty. not accounted and extra scrap generated beyond 5% of actual consumption : Rs.96, 990/- per M.T. + applicable taxes at the time of recovery

ii) For Rails:

- a) Single recovery rate for the non-returned scrap up to 5% of actual consumption : Rs. 65,739/- per M.T + applicable taxes at the time of recovery
- b) The punitive recovery rate for steel qty. not accounted and extra scrap generated beyond 5% of actual consumption : Rs.1, 31,478/- per M.T. + applicable taxes at the time of recovery

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

iii) For ERW Tubes:

- a) Single recovery rate for the non-returned scrap up to 5% of actual consumption : Rs.42,534/- per M.T + applicable taxes at the time of recovery
- b) The punitive recovery rate for steel qty. not accounted and extra scrap generated beyond 5% of actual consumption : Rs.85, 068/- per M.T. + applicable taxes at the time of recovery

iv) For Seamless Steel Tubes:

- a) Single recovery rate for the non-returned scrap up to 5% of actual consumption : Rs.1,23,260/- per M.T + applicable taxes at the time of recovery
- b) The punitive recovery rate for steel qty. not accounted and extra scrap generated beyond 5% of actual consumption : Rs.2, 46,520/- per M.T. + applicable taxes at the time of recovery

The above rates are only indicative and BHEL issue rate on date of actual issue will be applied.

17. *The Contractor should maintain proper accounts of cement, MS rods / CTD bars, structural steel sections and other materials if any supplied by this organization and these should be available at the site of the work for verification and check by the official of this organization at any time.*

18. *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*

19. *The Manager / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test. The contractor shall give due notice in writing to the Inspecting Engineer of BHEL when the materials supplied to be incorporated in the work are ready for Inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him.*

20. *The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Engineer-in-charge if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.*

21. *The contractor should submit in advance every fortnight a detailed program of work to be undertaken from time to time strictly in conformities with the "Time and Progress Chart" covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set. Periodical progress reports of every fortnight should also be furnished by the Contractor regarding the collection of materials issued and to be issued from BHEL Stores and other relevant information as asked for by the Engineer-in-charge and other BHEL Officers-in-charge of the work.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

22. *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.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

SPECIAL CONDITIONS FOR STRUCTURAL STEEL WORKS

1. *The contractor will be required to submit the necessary test certificates for the materials so supplied for use on this work.*
2. *Based on the detailed shop Drawings approved by the BHEL the Contractor shall prepare at his cost, the Drawing Office Dispatch Lists (abbreviated as D.O.D.L.'s) and get them approved by BHEL. These shall contain the drawing number, the designation of items, number of pieces, based on the section weights as adopted for supply of raw materials without deduction for bolt holes and skew cuts. The DOD Lists shall form the basis for payment.*
3. *a) Fabrication shall generally be in accordance with IS 800 (latest issue) entitled "Code of practice for use of structural steel in general building constructions". Welding shall be in accordance with IS 816 entitled "Code of practice for use of metal arc welding for general construction in mild steel". The contractor shall provide necessary splicing as approved by the Engineer-in-charge, to suit the available lengths of raw steel, and no extra amount shall be paid on this account. Any specifications not covered by the Relevant Indian Standard Codes of practice shall be in accordance with the relevant BS or in its absence in accordance with the well-established standard Engineering practice to be acceptable to BHEL.*
b) Under the contract, where site fabrication is to be adopted, a suitable site near and inside the factory premises will be made available by BHEL at free of ground rent. The Contractor shall provide all plant and equipment, tools covered sheds and other facilities required for site fabrication work at his own cost.
4. *All fabricated steel work shall be given one coat of Red Oxide / Zinc Chromate primer conforming to Relevant IS code and shall be match marked suitably to facilitate their erection in position without any difficulty.*
5. *Normally no night work will be permitted. But in case of emergency and urgent in nature where night work is warranted, the Contractor shall arrange for night works providing all facilities including illumination at his own cost, after obtaining written permission from Engineer-in-charge under intimation to Security and Safety Departments.*
6. *The contractor shall submit schedules showing the program and order in which the Contractor proposes to carry out the fabrication and erection works with dates and estimated completion times for various portions of the work. Such schedules shall be approved by the Engineer-in-charge prior to the starting of the relevant works.*
7. *BHEL would expect the contractor to take up simultaneously wherever possible both fabrication and erection of structures especially where a good deal of assembly work, which is in fact a continuation of the fabrication work, is required to be done at site. The painting and cloaking items of works, wherever possible, should be done simultaneously to save time. The Contractor may with the prior approval of BHEL sublet the work. The main contractor shall however, be responsible for all works executed on his behalf by the sub-contractors.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

8. SETTING OUT AND ERECTING OF STEEL WORK:

- a) *Erection of steel work shall generally be in accordance with the provision of IS 800 (Code of practice for use of structural steel in General Constructions).*
- b) *Site assembly of members on the ground by bolting or otherwise as specified in shall be inspected thoroughly by the Engineer-in-charge, or his authorized representative and approved before erection.*
- c) *All equipment, facilities and consumables for site fabrication as well as erection plant requirement, etc., such as derricks, cranes, lifting tackles, wire ropes, chain pulley blocks, jacks, winches etc. as necessary shall be arranged for by the Contractor at his own cost. Care shall be taken to see that all equipment, tools and tackles and wire ropes etc. in use are always in good working conditions and fit for use. For all the tools and plants periodical calibration certificate from approved agency should be obtained. **The above lists should be enclosed along with the tender.***
- d) *Frames shall be lifted at such points that they will not buckle or deform. Trusses shall be lifted only at nodes. Temporary bracing shall, if required, be provided at no extra cost, to relieve erection stresses.*
- e) *In the case of trusses and similar roof structures all or at least a majority of the purlins and wind bracings, shall be erected side by side with the erection of these structures. Columns shall be erected true to plumb, (no screed bars provided and fixed by the Contractor over the prepared pedestals), true to center line, level and gauge of traveling cranes. Alignment of the columns, crane girders and rails shall be done very carefully using high precision survey instruments and necessary adjustments made to suit actual requirements. **A list of survey instruments proposed to be used shall be furnished in the tender.***
- f) *All damages to the steel work caused during the transit or otherwise shall be made good to the full satisfaction of BHEL at Contractor's own cost, before erection.*
- g) *It shall be the sole responsibility of the Contractor to ensure accuracy of level, plumb, span and alignment of steel work before erection of other components.*

9. PAINTING AFTER ERECTION:

- a) *All steel work shall be given two coats of approved brands of first quality synthetic enamel ready mixed paint / epoxy paint as the case may be. (over the priming coat already provided). The shade, make, quality and other particulars of the paint proposed to be used, shall be subject to prior approval by BHEL.*

10. TIME ALLOWED (Period of Contract)

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

The following program should be strictly followed.

Stage Number	Description of Work	Location	Split-up Schedule
I	Casting of all Pedestals for Main Columns and Sheeting Columns	Bay 8	2 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
II	Completion of Equipment Foundations	Furnace, Chimney, Quench tank, bogie tracks. Control room for Blower, Blower Shed and Blower Foundation	3 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
III	Completion of Flooring and Cable Trench	Bay 8	1 month from the date of clearance from BHEL, after completion of PEB Shed erection
IV	Completion of Periphery wall	All round Bay 8	2 months from the date of clearance from BHEL, after completion of PEB Shed erection
V	Allied Structure	Tank for Heater less LPG Vaporizer	5 months from the date of commencement of work mentioned in Letter of Intent (LOI)*.
	Finishing and handing over	Total Work	3 months from the date of clearance from BHEL, after completion of PEB Shed erection

11. *The contractor will have to provide and fix the necessary screed bars etc. at his own cost in proper line, level and position to facilitate the erection work. Further, the contractor should lay and maintain necessary temporary approaches within his working areas at his own cost to facilitate his work and for easy movement of vehicles, cranes etc. deployed on the work. Only reasonable areas will be provided by BHEL.*

12. *Till the expiry of the maintenance period of ONE YEAR after the completion of the entire contract work and handing over to BHEL, the contractor should retain the minimum equipment and staff required and should carry out the maintenance works with the least possible interference to the routine works of the new shop. Till the expiry of the maintenance period the contractor shall be responsible for all damages*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

occurring due to any fault on his part or on the part of his workmen, subcontractor or other agencies engaged by him.

13. *BHEL shall have the right to take possession of or use any completed or partially completed part of the work. Such possession or use shall not be deemed to be acceptance of any work not in accordance with the contract.*
14. *The contractor shall observe all safety regulations and take necessary safety precautions as called for under the Factories Act or other relevant statute as applicable including the use of safety boots, safety belts, helmets and other equipment and accessories for ensuring safe execution of the contract and freedom from accidents.*
15. *The Contractor should co-operate with other contractors who may be executing their work in the same area in order to facilitate efficient execution of the entire project work in this area.*
16. *The Guarantee / Warranty period for this contract shall be ONE YEAR from the date of completion of the entire work and handing over to BHEL. During this period the successful tenderer shall be at site on his own expense for replacement or repair of all defects arising out of faulty materials and/or workmanship.*
17. *Further particulars relating to design, fabrication and clarifications, if any, may be obtained on reference to the HOD/ Civil Department, BHEL, Thirumayam or his nominee.*
18. *The contractor shall engage a level-II NDT Inspector for inspection of NDT works.*
19. *Inspection will be done by BHEL Staff/ Agencies appointed by BHEL for the works covered in the tender.*
20. *Painting, DFT of primer should be 25 microns.*
21. *Finish coat Painting, DFT 20 micron for each coat. Paint shall be of first quality product and of approved brand.*
22. *Pre heating and post heating required shall be as per AWS (latest).*
23. *Welder qualification is to be done before commencement of the work and approved & qualified welder only shall be engaged in work. Necessary testing charges shall be borne by the contractor.*
24. *For the supply of material, the manufacturer's test certificate is to be produced.*
25. *The contractor shall submit material tallying statement on completion of the work indicating the details of quantities of material received, used for the work as per DODL, quantity returned in full length, useful cut bits and scrap.*
 - a *Single recovery rate for the non-returned scrap up to 5%age Rs. 40,290 / MT + applicable of actual consumption: taxes at the time of recovery*

Place
Date

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(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- b *Same as above but for Crane rail Landed cost + applicable taxes at the time of recovery*
- c *Punitive recovery rate for steel quantity not accounted and Rs. 80,580 / MT + applicable extra scrap generated beyond 5% of actual consumption. taxes at the time of recovery*
- d *Same as above but for Crane rail Double the landed cost + applicable taxes at the time of recovery*

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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

GENERAL QUALITY CONTROL PROCEDURE FOR STRUCTURAL STEEL WORKS

The following quality standards are required to be maintained in all the structural steel fabrication components.

1. *All the raw materials will be generally conforming to IS 2062-1999 or equivalent.*
2. *The welding electrodes shall be kept in oven only.*
 - a. *Submerged Arc welding has to be done for crane girder flange to web joints and built up column as per the details given in the approved drawings.*
 - b. *E7018 Welding electrode rods shall be used where the thickness of plates is 20mm and more and as specified in the drawings issued.*
 - c. *All the other weld in crane girder and butt welds in columns and beams shall be done with E 7018 welding electrodes.*
 - d. *All the welds in Nodal points of trusses and lattice girders shall be done with E 7018 welding electrodes.*
3. *Pre heating shall be done for plates having thickness 25mm & more and the temperature shall be maintained by checking with thermal chalk, as per quality standards.*
4. *All erection welding, of any component shall be done using E 7018 Welding Electrode.*
5. *100% visual check shall be carried out for raw materials and welding on all components and the welding areas during inspection, to be tested for LPI / MPI / UT / Radiography / PWHT as provided in the Quality Control Procedure.*
6. *Base plate to column shall be perfectly checked for perpendicularity.*
7. *All the components shall be checked for dimension at fit-up stage itself before the commencement of welding operation.*
8. *Contractor shall buy & use Black Hex. bolts and nuts as per IS Specifications as detailed below for fabrication & erection of steel structures.*

a	Black Hex Bolts	IS 1363 - 1984 Part – I (Class 5.6/5.8) (or latest)
b	Black Hex Nuts	IS 1363 - 1984 Part – III (or latest)
c	Plain MS washer	IS 2016 - 1975 (or latest)
d	Taper washer for beams	IS 5274 - 1975 (or latest)
e	Taper washer for channel	IS 5372 - 1975 (or latest)
f	Spring washer	IS 3063 - 1964 (or latest)

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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

9. Contractor shall buy & use the following welding consumables as detailed below:

a) SMAW Electrodes		Manufacturer
1.	E 6013 & E 7018	D & H Secheron
2.	E 6013 & E 7018	ESAB India Ltd
3.	E 6013 & E 7018	Modi Arc Electrode Co.
4.	E 6013 & E 7018	D & H Welding Electrode (I) Ltd.
5.	E 6013 & E 7018	Mantek Electrods (P) Ltd.
6.	E 6013 & E 7018	Ador Welding Ltd.
7.	E 6013 & E 7018	Varun Electrodes Pvt. Ltd.

b) SAW Wire		Brand	Manufacturer
1.	AUTO melt	Grade A	Ador Welding
2.	Mantek	Grade A	Mantek Wires
3.	Metaspool	S1 dia. 4mm	Precision Wires
4.	OK Aut Rod	12.08 L	ESAB India Ltd.

c) Flux		Manufacturer
1.	Super S41	Super Elec Inds
2.	Mantek 22	Mantek Welded Flux Co.
3.	RMH Auto Weld Grade 1	RMH Chemicals
4.	SWP 40 T	Super Weld Prod

d) GMAW (CO2)		Brand	Manufacturer
1.	ER70S-6 Co2 WIRE	Automig-1	Ador Welding Ltd.
2.	ER70S-6 Co2 WIRE	Esab MW1	Esab India Ltd., Chennai
3.	ER70S-6 Co2 WIRE	Mantek Mig	Mantek Wires
4.	ER70S-6 Co2 WIRE	Nouvarc	Nouveaux Industries (P) Ltd., Kangayam
5.	ER70S-6 Co2 WIRE	Autofil-6	Voltrac Electrode Pvt. Ltd., Tirupathi.
6.	ER70S-6 Co2 WIRE	Prima Mig/Mag	Varun Electrodes Pvt. Ltd., Panipat.

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(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

10. *Rolled steel sections of depth greater than 450mm need to be visually checked for lamination before the process of fabrication. The doubtful area to be tested for LPI and if lamination is found UT Test to be carried-out.*
11. *The welding code of practice, procedures, specifications for electrodes / consumables etc., for manual welding and auto welding shall conform to AWS D1.1/D1.1M:2006 (Latest) and as per the QCP issued by BHEL component-wise.*
12. *All the fabrication and erection works shall have to be executed as per the QCP approved by BHEL.*
13. *All the fabrication and erection works will be inspected for Quality Control by a third party inspection agency as fixed by BHEL.*

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Bharat Heavy Electricals Limited

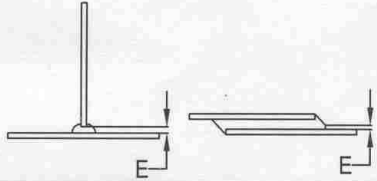
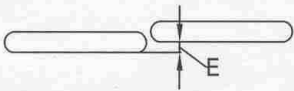
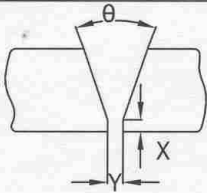
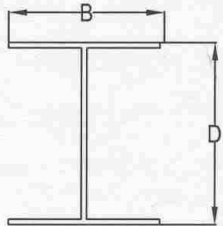
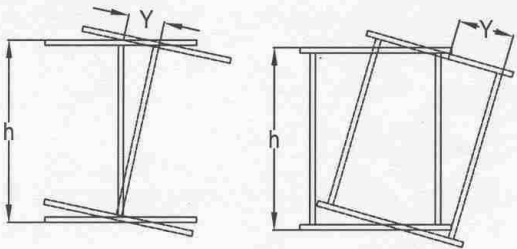
(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

DESIGNATION	DETAIL OF SKETCH	PERMISSIBLE DEVIATION
FILLET WELD FIT UP	FIG:2 	MAX.LOCALISED GAP =1.5mm
BUTT WELD	FIG:3 	CUT OF ALIGNMENT = 3 mm MAX
FIT UP	FIG:4 	FOR ,X,Y, θ REFER =1.2 &3 OF CL 7:4:3
SECTION SIZE	FIG:5 	D: UPTO 1M : ± 3mm 1M TO 2M : ± 4.5mm OVER 2M : + 7.5 mm - 4.5mm B:±3mm
TWIST ON SECTION (Y)		Y=0.005h 10 mm MAX

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

DESIGNATION	DETAIL OF SKETCH	PERMISSIBLE DEVIATION
FIG:1	<p>LINE OF FLAME HEATING</p> <p>CORRECTION OF FLANGE WARPAGE</p>	
WEB SHIFT	<p>FIG:2</p>	$\frac{b1 - b2}{2} = 2\text{mm}$
FLANGE WARPAGE	<p>FIG:3</p>	$T1+T2 = \frac{B}{100} \text{ OR } 6\text{MM}$

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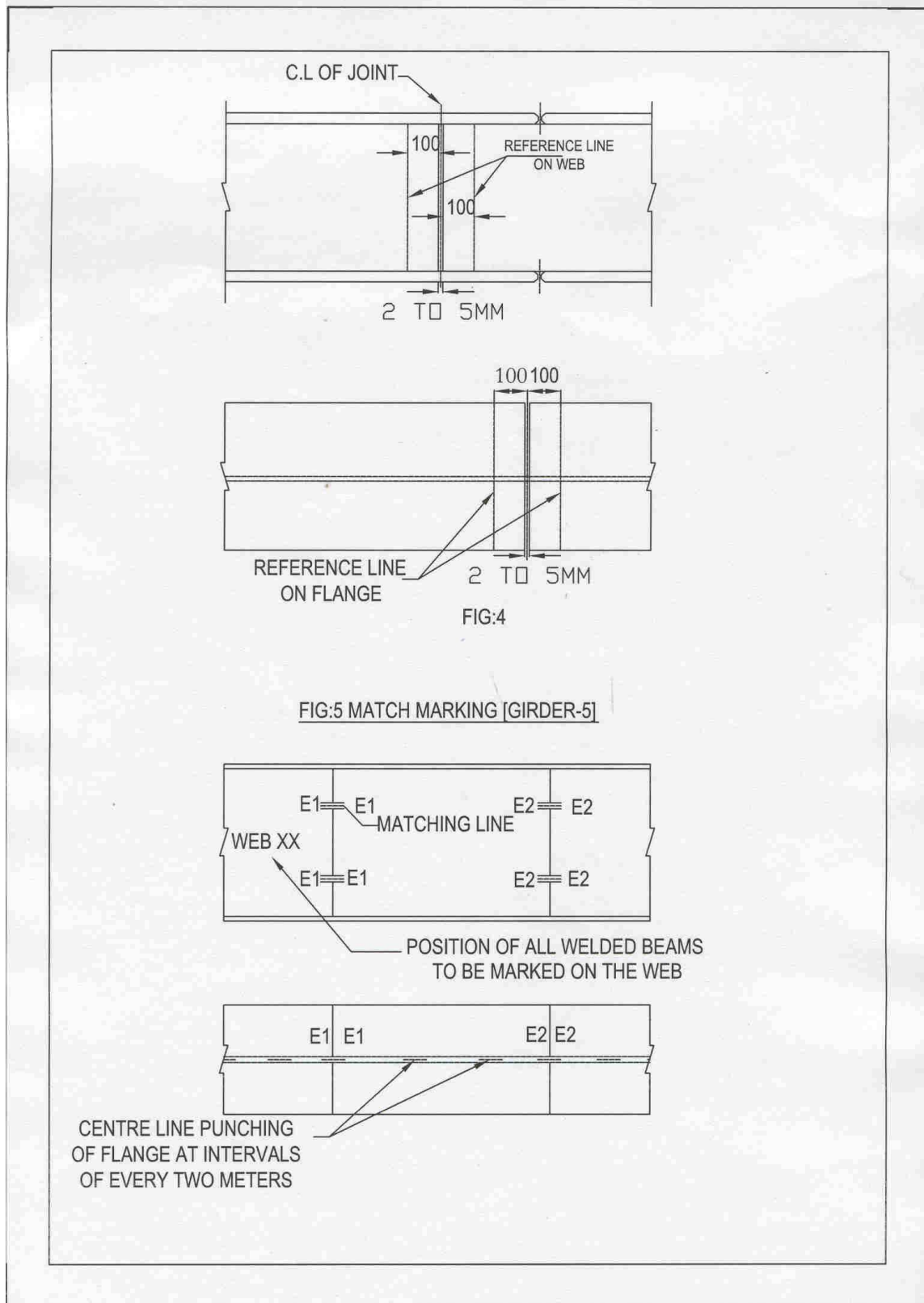
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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018



Place
Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

DESIGNATION	DETAIL OF SKETCH	PERMISSIBLE DEVIATION
WEB SHIFT	<p>FIGURE-7</p>	$\frac{b1 - b2}{2} = 2\text{mm MAX}$
FLANGE WARPAGE	<p>FIGURE-8</p>	$T1+T2 = \frac{B}{100} \text{ OR } 6\text{MM}$
CAMBER	<p>FIGURE-9</p>	$E = 1/1000 \times \text{length}$ <p>SUBJECT TO MAX] OF 10mm.</p>

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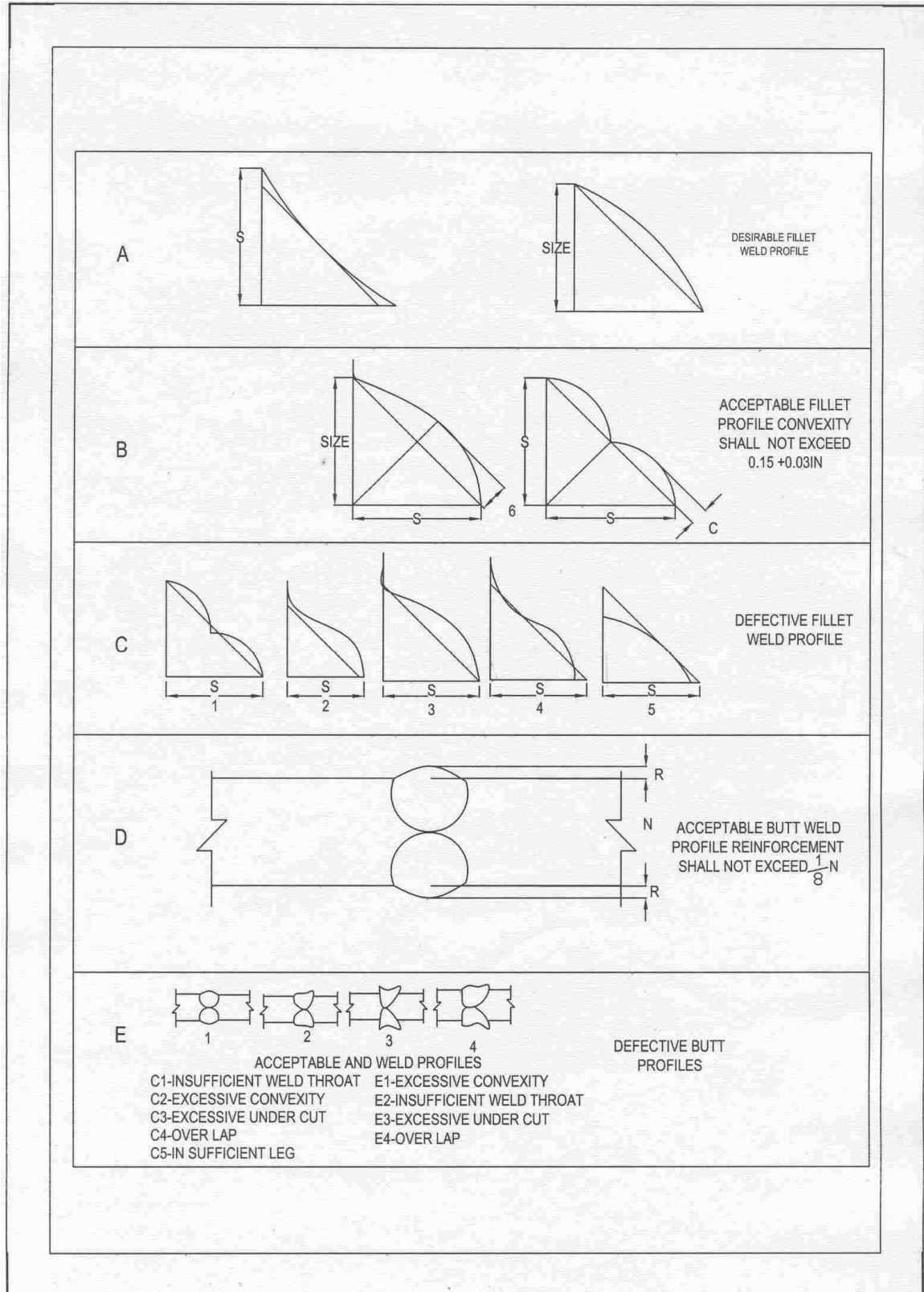
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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018



Place
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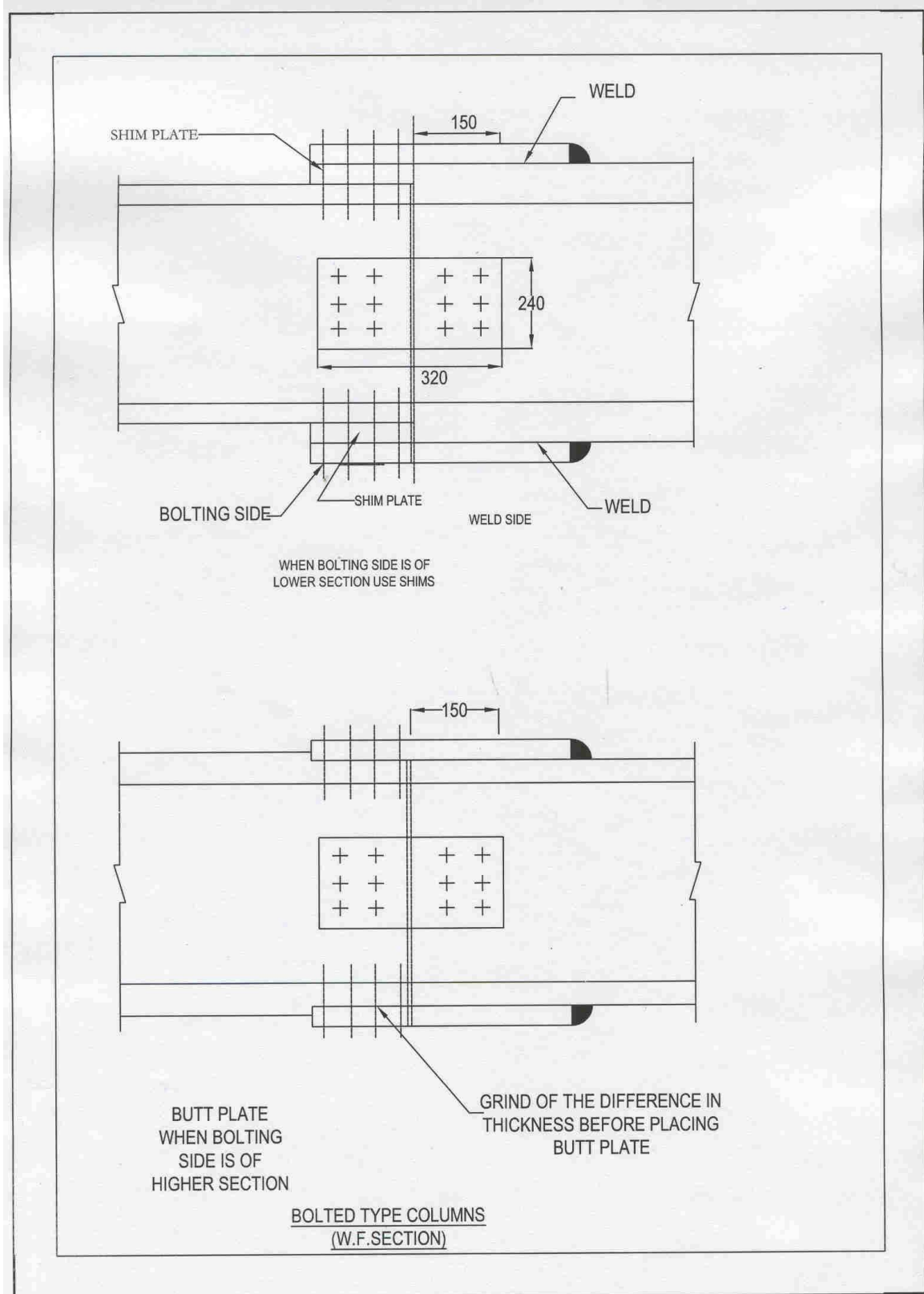
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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018



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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

GENERAL AND SPECIAL SPECIFICATIONS

1. Site Clearance *All the area upon which the construction is to be carried out and areas which are required by the Contractor for his construction facilities are to be cleared off all rubbish and objectionable matter at Contractor's own cost. Trees, if any, shall not be uprooted or cut without the prior approval of the Engineer-in-charge. All spoils, unserviceable materials and rubbish shall be burnt or removed from site. Usable materials, saleable timber, fire-wood etc., shall be stocked properly at work site in the manner as directed by the Engineer-in-charge. The cost of clearing the areas shall be deemed to have been included by the tenderer in his general rate.*

2. Earthwork for Foundations *Earthwork excavation for foundations and filling in foundations shall conform to TNBP 23 and 24. The area to be excavated or filled in with excavated materials shall be clearly demarcated in the field by the Contractor. Excavation shall be done to lines and levels defined. Excavation shall be carried out to such widths, lengths, depths, profiles and grades as shown in the drawing or as may be specified by the Engineer – in – charge. Rough Excavation may be carried out up to a depth 15 cm less than the final level but the balance shall be excavated to precise level with special care. All soft pockets of soil met with even below the final level shall be removed and the excavation filled up as directed by Engineer-in-charge. The methods of excavation shall in every case be subject to the approval of the Engineer-in-charge and the contractor shall ensure the safety and stability of the excavations, being executed by him as well adjacent buildings, structures, services and other works in the vicinity of the site of work. Wherever necessary Engineer-in-charge may direct that the sides of the excavation should be timbered and shored at the contractor's own cost, adopting a proper method approved by the Engineer-in-charge. Notwithstanding the above, should any slip occur, the contractor shall remove all the slipped materials from the excavated pit, at his own cost. He shall also make good at his own all damages caused to the work as well as adjacent buildings, structures etc., as a result of the slip, referred to. All excavation work shall be subject to inspection and approved by the Engineer-in-charge before any further works in the excavated areas allowed to commence. Should any excavation be carried out beyond the specified depth, the contractor should fill it up at his own cost with the same type and class of material as it is proposed to be laid over the excavated portion. No payment will however be made to the contractor on his account. The contractor shall ensure that the excavations and the structures under construction are kept free from water logging at all stages of construction. He shall take all necessary precautions and `streams, aquifers, springs, surface flows etc., are excluded effectively so as to ensure that the works are carried out in a reasonable dry conditions in accordance with the construction schedule. Back filling around the foundations, trenches, plinth and under the floor shall be done in accordance with TNBP 24 and 25. The finished level of the plinth filling shall be trimmed to the slope required to be given to the finished floor. Back filling, watering and consolidation of excavated earth in layers etc., complete as per specifications shall be done unless otherwise stipulated in the tender schedule.*

a. Removal of Hard rock by Blasting *This shall include all rock occurring in large masses which cannot be removed except by blasting. Blasting shall be done in conformity with TNBP 19 & 23 and as instructed by the Engineer-in-charge. When rock blasting has to be done adjacent to structures, the following precautions shall be observed. (1) All blasting should be completely muffled to prevent damage by flying pieces.*

(1) Blasting within 3 meters of the structures shall be avoided

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(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

(2) No blasting should be done within 1.5 meters of concrete / masonry structures.

(3) An isolated boulder extending under the existing structure but projecting within the area of blasting should be blasted.

(4) The contractor shall be responsible for all damages caused by blasting and shall replace or repair the damaged structures at his own cost.

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION

The following safety measures should be strictly adhered to during execution of works at sites.

1. *Providing the working platform with toe board and handrail for continuous working at heights.*
2. *Providing safety belt and life line at all times for men working at heights.*
3. *Providing dust or fume respirator in places where dust and fume concentration exists.*
4. *Providing goggles and welding screens.*
5. *Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.*
6. *Providing rubber gloves for working on electrical works.*
7. *Ensuring proper lashing of the components while being transported in vehicles.*
8. *The vehicles must have side supports or have body to support the materials conveyed.*
9. *The materials should not be allowed to extend or overflow the sides of the vehicles.*
10. *Materials should not be allowed to overhang from the rear edge of the body of the vehicle.*
11. *Driver of the vehicle must possess license.*
12. *Vehicle must not be overloaded prescribed limits.*
13. *Red flags and lights for parts projecting from the body of vehicle must be provided.*
14. *The speed restrictions within the factory premises must be strictly adhered to.*
15. *The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.*
16. *Cylinders should not be used without regulators.*
17. *All excavations must be barricaded and red lamps must be provided.*
18. *All electrical connections must be properly earthed.*
19. *No work should be taken up for execution inside shop floor, without obtaining necessary work permit.*
20. *Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly nin trusses, girders, roofing etc., of industrial and high roof buildings.*
21. *The contractor should maintain a register regarding the driver license particulars.*
22. *All personal protective equipment conforms with standard specification as per the details given in the code of conduct.*

Contractor including their sub-contractors, agents and labor engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measurers. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS

VEHICLE

1. Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.
2. The light on right side, i.e., over the driver's cabin shall be in working condition.
3. Both the head lights as well as park lamps must be in working conditions.

II. MOVEMENT OF VEHICLE

1. The vehicle should not travel at more than 20 km.ph in our premises.
2. The Driver of the vehicle must possess heavy duty license and produce on demand by the Security Staff.
3. Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.
4. In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
5. The driving should „KEEP TO THE LEFT“ at all places.
6. The vehicle should not be parked in road which could obstruct the vehicular traffic.
7. No person other than driver should be allowed to sit or stand on the prime mover or trailer.
8. The vehicle should pass only through the approved routes. Short cuts should be forbidden.
9. There must be a safe distance behind another moving truck.
10. The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

III SHIPPING

1. Strong side supports should be provided on both sides of the trailer. The side supports should be fixed in such a way that it cannot be removed even temporarily.
2. Adequate packing must be given for easy slinging operation. The packing materials should be good enough to withstand the load.
3. The stacking of loads in the truck should be evenly placed. The load should not be heaped together or dumped over the chassis.
4. The loaded materials should be fastened tightly with „WIRE ROPE“. Manila rope or coir rope should not at all be used. There must be side packing such as gunny or rubber tyre between the sharp edge of the job and wire rope in order to avoid cut in the wire rope.
5. There must be minimum two fastenings and it should be more in case of lengthier loads.
6. The wire rope should be in sound conditions i.e, there should not be links, knots or bristles etc.,
7. The wire rope ends should be clamped with “U” clamps.
8. The load on the truck should not be beyond its standard capacity. The carrying capacity must be clearly marked on the trailer also.
9. The loose pieces should be bundled before loading on the truck.
10. There must be red flags or red lamps for the lengthy loads which extend beyond chassis.
11. The load should not be over hanging more than 3 ft. from the end of the body.

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

12. *The materials should not be stacked too high to avoid hitting against live electric lines.*
13. *While transporting the scraps, there must be wire knitting cover to prevent falling of scrap.*

IV GENERAL

The vehicles should not be moved directly inside the production building in case the materials are to be unloaded there. But the vehicle should be parked outside the building and the driver should ascertain the passage as well as the unloading points with the help of shop officials. This will avoid the congestion of blocking of traffic in the gangway.

Following are the points to be ensured for the safety of contract employees

I. Identity and Entry:

1. *The contractors to give identity card to their employees with full details like employee name, company name, age, blood group, contact person with phone no. etc.*
2. *The contractors not to employ people whose age is below 18 years.*
3. *HR/ Welfare will issue passes to the trained employees only.*
4. *Welfare has to arrange for necessary infrastructure (biometric entry) for enrolment of new contract workers.*
5. *The data of daily entry oh contract workers through biometric will be made available online to the contract awarding departments HR/ Welfare*

II. Training:

1. *Safety, first aid and firefighting training to be given to two responsible Persons in each contract and they should take care of their groups on day today working*
2. *This shall be done within a period of 2 weeks after awarding of fresh contract.*
3. *For ongoing contracts, the contractors have to identify the persons to be trained Within a period of 2 weeks.*
4. *Driving/operation of Crane/jumbo/fork lift etc are to be done only by authorized persons.*

III. Dress Code:

1. *Male employees should enter gates only with safety shoes pants-shirts, (Dhoti, Lungi not permitted).*
2. *Female employees should enter gates only with safety shoes Loose dress must be avoided. (A shirt over saree/ Chudithar is a must).*
3. *Normal shoes are acceptable for office area work only.*
4. *Employees working in canteens can wear sandex.*
5. *Welfare will finalize and indicate a color coding to be provided in the dresses Used by contract employees for uniformity and easy identification of the contract workers.*

IV. Procedures:

1. *Smoking, audio-playing (mobile phone, ipod. Inbuilt music system etc in the vehicles.) are banned within the factory premises.*
2. *Moving to unrelated areas must be strictly avoided by the contract, employees entering to the other areas only with knowledge of concerned department.*
3. *Procedure (SOP) given form user department are to be adopted for all operations and maintenance - e.g tank cleaning, et plant maintenance, sewage maintenance, Oxidation pond maintenance, operation of substation, transformer maintenance etc.*

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Date

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(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

4. Adequate precautions to be taken while hazardous waste removal like paint sludge removal, chromic sludge removal, phenol and tar by contract employees.
5. The contractor should clearly inform the hazards involved to the employees. MSDS to be displayed.
6. The contract employees involved in tank cleaning, ET plant maintenance, Oxidation pond maintenance should know swimming and strict monitoring, should be ensured.
7. Line clearance(LOTO)procedure to be followed during bulb changing, electrical substation maintenance, DSL maintenance, furnace instrumentation etc.
8. Work permits to be obtained for jobs like work at height, excavation, blasting, hot work, pipe line work, roof light maintenance, work at confined space like cellar etc.

Work permit instructions

SI	Works	Instruction
NO		
1	Construction, erection & Commission of new and modification of existing civil structure	The contract workers employed shall have sufficient job knowledge and shall follow the procedures and dress code
2	Periodical Civil maintenance work at height	Only experienced people shall be allowed to carry out the work at height. Physically fit without any vertigo problem. Wear safety belt and use lifeline, Net etc.
3	Work at height – including roof light maintenance and furnace work	Only experienced and qualified electrician shall be allowed to carry out the work at height. Physically fit without any vertigo problem. Wear safety belt and use lifeline, Net etc.
4	Welding work at process plant including pipe lines, PG and acetylene plant	Only experienced people shall be allowed to carry out the work at height. Shall take care of nearby pipeline, remove all flammable materials. Get help from fire service.
5	Crane erection and modification work	Only experienced people shall be allowed to carry out the work. Wear safety belt and use life line .Net etc. Remove all loose material
6	Excavation and Blasting	Obtaining Excavation permit, shall be strictly followed. Only licensed holder shall carry out blasting, accountability shall be properly maintained for the explosives, unauthorized/ unapproved explosives shall not be allowed. Only authorized equipment shall be used for blasting.
7	Fragile roof work	Only experienced people shall be allowed to carry out the work at the fragile roof. Physically fit without any vertigo problem. Wear safety belt and use life line. Net etc. They shall be properly instructed before going to the roof.

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(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- 8 *Confined space work, cellars, furnace ducts* *Oxygen level to be checked before work, proper breathing apparatus to be used. Only experienced people shall be allowed to carry out the work at cellars/confined space.*

9. *Specified speed limit 20kmph to be followed by all the vehicles entered in factory premises.*
10. *Procedure given by user departments for spray paintings, brush painting and dip painting should be followed. Paint sludge removal, empty tin removals etc. are to be periodically carried out and sent to disposal stores.*

B. Electrical contractors:

1. *Must ensure proper care before working on electrical lines.*
2. *Must have obtained line clearance/ work permit for all electrical work, panel board cleaning, roof light changing, cable trench works and works in confined areas.*
3. *After completion of the work the line clearance / permits must be closed.*
4. *Must remove all the left out choke, bulbs, tools, fasteners etc. after completion of the work (working on height)*
5. *Portable machines, lines drilling machines must be with proper plug points.*
6. *Unused new cables and fittings are to be removed and returned properly*

C. Painting Contractors:

1. *Must know the characters of paints, thinners, solvents, etc before handling.*
2. *User departments and the contractors must provide Materials Safety Data Sheets (MSDS) for the contract employees involved in painting work.*
3. *Contractors should provide respirators to the employees doing painting work.*
4. *User departments should ensure training for contract employees in Fire prevention, firefighting etc*
5. *The training shall be through Fire/ Security department.*
6. *Contract employees must take adequate precautions to prevent fire while working.*

D. Civil Contractors

1. *Employees working in Civil instructions should be familiar with the relevant work viz masonry work constructions, tiles, partitions, floor elevated work etc.*
2. *Tools, equipment pertaining to their works must be in good condition and with valid certificates. The workers employed must be skill full enough to complete the work- roof work, work at height, excavation blasting etc.*
3. *Contractors must check the health of employees specific to occupation periodically and furnish evidence to welfare department/BHEL. This is a must for the works like working at height, Jack Hammering, sewage cleaning etc.*
4. *Vehicles used for construction works like lorries, excavation equipment (JCB), Mixing machines etc., are sound and in operating condition.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

5. *User departments should ensure that the applicable procedures are clearly understood by contract employees involved in civil maintenance viz flooring, floor cleaning, building maintenance, water line, pipe lines, storm water, ETP Maintenance etc. The adherence to the procedure must be ensured by contract supervisor.*
6. *The operators should be licensed, trained, and authorized persons. Valid certificates / documents must be shown on demand.*
7. *Employees should remove the waste materials from the work spot after completing the works.*

E. Transport Contractors:

1. *Vehicles carrying materials should have proper registration documents and must be produced on demand to BHEL security staff.*
2. *The driver of the vehicle must possess valid heavy duty license, vision test certificates & relevant valid vehicle documents as per the factory rules and to be produced on demand to the security staff.*
3. *The cleaner should be knowledgeable enough to give correct direction. Also should not drive inside or take training inside. Every vehicle should have pair of skilled driver and cleaner.*
4. *No persons other than driver should be allowed to sit or stand on the prime Movers of the trailer.*
5. *Should not do Cooking, Bathing, Vehicle cleaning etc. within the premises.*
6. *Both the head lights as well as park lamps must be in working condition.*
7. *The tire, brake, horn, turning lamps, etc must be in good conditions.*
8. *The vehicle should not be parked in the road in such a way to cause obstruction to vehicular traffic.*
9. *There must be a safe distance behind another moving truck.*
10. *If vehicle got break down, they should attend maintenance work and ensure to avoid oil and grease spillage & traffic issues.*
11. *Drivers should not do materials handling activities.*
12. *Must not stand under / close to load while lifting the materials.*
13. *Speed limit 20 km / hr to be maintained inside the factory premises.*

F. Shipping:

1. *Strong side supports should be provided on both sides of the trailer. The side supports should be fixed in such a way that it cannot be removed even temporarily.*
2. *Adequate packing must be given for easy slinging operation. The packing materials should be good enough to withstand the load.*
3. *The stacking of loads on the truck should be evenly placed. The load should not be heaped together or dumped over the chassis.*
4. *The load on the truck should not be beyond its standard capacity. The carrying capacity must be clearly marked on the trailers also.*
5. *The loaded materials should be fastened tightly with wire rope. Coil rope should not all be used.*
6. *There must be side packing such as gunny, rubber-tire between the sharp edges of the jobs and wire rope in order to avoid cut in the wire rope.*
7. *There must be minimum two fastening and it should be more in case of lengthier loads.*
8. *The loose pieces should be bundled before loading on the truck.*
9. *There must be red flags or red lamps for the lengthy load which extend beyond chassis.*
10. *The materials should not be stocked too high to avoid hitting against live electric lines.*
11. *Must not lift beyond the capacity (SWL) of mobiles cranes.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

12. Must keep valid Certificates for the individual (inclusive of vision test certificates) and lifting equipment.
13. Should not use mobile cranes for transporting and dragging.

VII Travels/Taxi Contractors

1. Must have valid documents like driving license, RC, insurance, FC, vision Test certificate.
2. Max speed limit 20KM / Hr must be followed, Timing prescribed for entry and exit to be strictly followed. Not to overtake inside the premises.
3. Seat belt must be worn by taxi drivers, park cars only in the permitted areas.
4. Using mobile phones while driving and playing I pod, inbuilt music systems etc in the vehicles. Are banned within the factory premises.

VIII Welfare:

1. The contractors are directed to generate PF number and ensure PF contribution remittance for all contract workmen engaged by them.
2. Bio – metric Entry for Contract Workmen: Contractors have been directed to cover all the contract workmen engaged by them through Bio- metric Entry System.

XI Health Check up

Contractors must check the health of employees specific to occupation Periodically and Furnace evidence to welfare department/ BHEL for updating. Specific test is a must apart from general health checkup for the works like

1. Working at Height – Vertigo test
2. Mobile crane operator – vision test, audiometric test
3. Vehicle drivers – vision test, audiometric test
4. Shot blasting operation- lung function test, audiometric test
5. Canteen employees – Dermatitis
6. Jack hammering- Lung function test, audiometric test
7. Sewage cleaning- Lung function test,
8. Electro- plating- Skin and respiratory tract
9. Grinding- Lung function test, audiometric test
10. Spray painting- Skin and respiratory tract

X Safety Equipment

Contract employees must wear the PPEs relevant to the nature for work in addition to the safety shoes

1. Welding- Welding shield and goggles

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

2. Gas cutting- Aprons, gas cutting goggles
3. Painting- PVC gloves, PVC apron, respirators
4. Electrical work – Electrical resistance gloves, gum boots (during rain)
5. Work near hot furnace – Heat resistant gloves & aprons
6. Glass wool related works- Respirators, Barrier Cream
7. Slag Removal, cleaning and grinding work- Goggles/ Dust respirators
8. Handling of rough and sharp surfaced objects- Leather gloves
9. Sanitary works- Hand gloves, gum boots
10. Contract preparation- Gum boots electrical
11. Work at Height- Rubber gloves, safety belts, fall arrestors, Life line rope

XII Violations

The following will be treated as serious violations and appropriate actions are to be initiated by the users

1. Employing people whose age is below 18 years.
2. Not wearing safety shoes or normal shoes (Contract employees will not be permitted after security gate)
3. Not wearing PPEs
4. Working without proper work permit.
5. Possession of mobile phones other than taxi drivers
6. Using mobile phones while driving
7. Unauthorized electrical connections
8. Driving/ operation of crane/ jumbo/ fork lift etc by unauthorized persons
9. Unauthorized operations/ Driving of lorries, mobile cranes etc.,
10. Smoking, Alcohol, Audio- Playing etc.,
11. Moving to unconnected areas
12. Any Willful act that creates unsafe conditions.

The contractor should engage Technical persons and Workmen and the contractor shall carry out the Health Performance check at his cost for the workman engaged in the work through a registered medical practitioner and produce the certificate on demand.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CHECK FOR HEALTH PERFORMANCE

Sl. No.	Activity	Hazard	Exposure Consequence	Check for	Periodicity
1	Concrete Dismantling	Emission of Dust & Noise	1	Lung function	Once in a Year
2	Concrete Mixing	Emission of Dust & Noise	1	Lung function	Once in a Year
3	Painting	Emission of Dust & fumes	1	Lung & throat function	Once in a Year
4	Cutting & Welding	Emission of fumes and gas. Exposure to Live wire	3	Eyes & Lung function	Once in a Year
5	Working on AC sheets	Emission of Dust	3	Lung function	Once in a Year
6	Sweeping of Roads	Emission of Dust	2	Lung function	Once in a Year
7	Collection and disposal of Sanitary waste	Foul smell & susceptibility to decease.	3	Lung function and skin irritation	Once in a Year
8	Handling of Oxygen & Acetylene Cylinders	Leakage of gas	4	Throat irritation	Once in a Year
9	Cleaning of Manholes	Exposure to poisonous gas	4	Suffocation	Once in a Year
10	Cleaning of Overhead tank	Emission of Dust	1	Suffocation & skin irritation	Once in a Year

NOTE: Exposure Consequence

- 1.Slightly harmful
2. Harmful
- 3.Very harmful
4. Extremely harmful

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

PERSONNEL PROTECTIVE EQUIPMENT

NYLON SAFETY BELT

1. It shall be made out of Nylon Webbing of width of 45mm.
2. It shall be provided with Friction Buckles and Semi Triangular Block Ring
3. It shall be provided with the Life line of 25ft. length of 10 mm dia
4. The Nylon rope with one end directly spliced to the back and the other end thimbleful and spliced with the Hook.
5. It shall be provided with ISI mark/supplied with test certificate.

ACID AND ALKALI RUBBER GOGGLE

1. It shall be made out of good quality thick Rubber with sponge lining inside.
2. It shall be suitable to fit on the face of any person.
3. It shall be fitted with clear, Non shatter able Lenses, or Toughened Lenses, in size 50 mm dia.
4. It shall give protection from splashing of chemicals and acid fumes.
5. It shall be provided with adjustable Elastic Band.

SPECTACLE TYPE SAFETY GOGGLES

1. The Frame should be of conventional type used with good quality cellulose Acetate material with reinforcement on the sides and opaque (black in colour)
2. The Toughened Lens should be an imported one (English, White Toric, plain, Optically Neutral) and should withstand the steel-ball Impact Test with ISI mark.
3. The thickness of the Lens shall be 2.8 mm.
4. The Hinged- type Foldable Wire mesh side – pieces with good Rivets shall be provided.
5. Good; durable, Screws and Hinges on the side – legs with good workmanship must be ensured.
6. There should not be any defect either in the frame, or in the Lens, and the Goggles should be of smooth and fine surface quality.
7. The size of the goggles is to be marked with Nos. 50 & 52 respectively on the inner side of one side – leg.
8. The initials of the Maker shall be embossed on the inner side of the other Leg, to identify the firm.
9. The goggles should be packed in a good, Safety Case. Completely enclosing the goggles with a cleaner.
10. Subjected to 100% inspection.

GUM BOOTS

1. Gum Boots shall be made up of Rubber/PVC material of Duck Back/Tarzan make
2. It shall have inner lining of good quality cotton/cloth

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

3. It shall have the carbon steel toe cap to the thickness of 1.5mm and should withstand the impact of 14Kgs/m and provided with ISI mark/supplied with test certificate.
4. It shall be covered up to the knee and give protection from splashing of chemicals, oil, water, etc.
5. It shall have the resistance to acids, alkali and oils
6. It shall be provided with ISI mark/supplied with test certificate.

GAS WELDING GOGGLES

1. They shall be made of Bakelite material with smooth finish
2. They shall have the vents on either side for allowing adequate ventilation, but preventing light and dust.
3. They shall have a pair of cups and screw cap arrangements to hold the filter lenses
4. They shall have a pair of filter lenses in size 50mm dia, shade no.6 of DIN specification to filter the IR radiation from the gas welding/cutting operation
5. They shall have two pairs of clear, protective cover (clear glass) in size 50mm dia.
6. They shall have a pair of spring type elastic band with adjustable leather strap

ACID AND ALKALI PROOF RUBBER GLOVES

It shall be made up of good quality, thick Rubber in size 14" and 16". Black in colour

1. It shall give protection against acid and alkali
2. It shall be of five finger type easy to wear.

HEAVY DUTY RESPIRATOR

1. It shall be made of soft PVC material so as to withstand normal usage, exposure to moisture
2. The construction shall be suitable to fit the faces of men
3. It shall have a mouth piece with White Cartridge
4. The cartridge shall be containing Sodium Hydroxide with Potassium Hydroxide
5. It shall absorb gas and afford protection against the following Vapours, gases

- | | |
|-------------------------|-----------------------|
| 1.Acetic acid | 2. Bromine |
| 3.Carbolic acid | 4. Carbon di oxide |
| 5. Chlorine | 6. Hydrochloric acid |
| 7. Hydrogen Chloride | 8. Iodine |
| 9. Nitrous gases | 10. Nitrogen di oxide |
| 11.Phosgene | 12. Sulphur di oxide |
| 13.Sulphurated Hydrogen | 14. Sulphur Trioxide |

6. It shall be provided with a dust mouth piece provided with cotton pad to be provided to filter the respiration dust

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

7. *It shall have a non-return inlet valve at the mouth piece, and side outlet valves*
8. *It shall have adjustable Elastic Strap not less than ¾" width for holding in position without discomfort*
9. *It shall be light in weight*
10. *It shall be provided with 3 nos. spare cotton pad along with each respirator*
11. *It shall be provided with ISI mark/supplied with test certificate*

DUST RESPIRATOR

1. *It shall be made of soft PVC material so as to withstand normal usage, exposure to moisture*
2. *The construction shall be suitable to fit the faces of men*
3. *It shall have a mouth piece with cotton pad to be provided to filter the respiration dust*
4. *It shall have Non-return inlet valve at the mouthpiece and side outlet respiration*
5. *It shall have adjustable Elastic Strap not less than ¾" width for holding in position without discomfort*
6. *It shall be light in weight*
7. *It shall be provided with 3 nos. spare cotton pad along with each respirator*
8. *It shall be provided with ISI mark/supplied with test certificate*

LIGHT FUME RESPIRATOR

1. *It shall be made of soft PVC material so as to withstand normal usage, exposure to moisture*
2. *The construction shall be suitable to fit the faces of men*
3. *It shall have a mouth piece with cotton pad and black cartridge containing activated charcoal to filter fumes from paint, oil etc.*
4. *It shall have Non-return inlet valve at the mouthpiece and side outlet respirable*
5. *It shall have adjustable Elastic Strap not less than ¾" width for holding in position without discomfort*
6. *It shall be light in weight*
7. *Spare cotton pad 3 nos. to be provided along with each respirator*
8. *It shall be provided with ISI mark/supplied with test certificate*

INDUSTRIAL HELMETS

1. *The Helmet shall be made of Fiber Glass Di-electric material with narrow brim*
2. *The surface of the shell shall be natural finish and Light blue colour*
3. *It shall have a Nape strap adjustable Head band equipped with sweat resisting lining. The width shall not be less than 30mm*
4. *Inner cushioning which is flexible and non-absorber of water shall be provided between the head band the shell*
5. *It shall have ventilation gap of 10mm to 20mm*
6. *Inside, the dimension of the head band in the longitudinal direction shall be 20 to 25% greater than the inside dimension of the cross wise direction*
7. *The shell shall have a clearance of less than 30mm between the inside of the top of the crown and top of the wearer's head*
8. *The wearing height shall not be less than 80 mm*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

9. *The head band shall be fitted with at least four crown straps each extending from side of the head band to the other. The width of the crown strap shall be 20mm*
10. *It shall have the leather chin strap, it must with stand the penetration resistance test and shock absorption test provided with ISI mark/supplied with test certificate*

Place
Date

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(NAME & ADDRESS WITH SEAL)



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(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

SAFETY PRACTICES DURING CONSTRUCTION

CONTENTS

- 1.0 Introduction
- 2.0 Scope
- 3.0 Definitions
- 4.0 General Duties
 - 4.1 General Duties of Execution Agencies
 - 4.2 General Duties of Owners
- 5.0 Safety Practices at Work Places
 - 5.1 General Provisions
 - 5.2 Means of Access and Egress
 - 5.3 Housekeeping
 - 5.4 Precautions Against the Fall of Materials and Persons and Collapse of Structures
 - 5.5 Prevention of Unauthorized Entry
 - 5.6 Fire Prevention and Fire Fighting
 - 5.7 Lighting
 - 5.8 Plant, Machinery, Equipment and Hand Tools
- 6.0 Construction Activities
 - 6.1 Excavation
 - 6.2 Scaffolding, Platforms & Ladders
 - 6.3 Structural Work, Laying of Reinforcement & Concreting
 - 6.4 Road Work
 - 6.5 Cutting/Welding
 - 6.6 Working in Confined Spaces
 - 6.7 Working at Heights
 - 6.8 Handling and Lifting Equipment
 - 6.9 Vehicle Movement
 - Demolition
 - 6.10 Masonry works.
- 7.0 First Aid
- 8.0 Documentation
 - Safety Awareness & Training

9.0 List of safety codes for civil Works

1.0 INTRODUCTION

Safety in Construction Management deserves utmost attention. Construction is widely recognized as one of the accident-prone activities. Most of the accidents are caused by inadequate planning, failure during the construction process and/or because of design deficiencies. Besides property loss, accidents also result in injuries and fatalities to the personnel, same needs to be prevented.

The reasons for accidents during construction activities are related to unique nature of the industry, human behavior, difficult work-site conditions, extended odd duty hours, lack of training &

Place
Date

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(NAME & ADDRESS WITH SEAL)



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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

awareness and inadequate safety management. Unsafe working methods, equipment failure and improper housekeeping also tend to increase the accident rate in construction.

Ensuring good quality of materials, equipment and competent supervision along with compliance of standard engineering practices shall go a long way to in built safety into the system.

The objective of this standard is to provide practical guidance on technical and educational framework for safety and health in construction with a view to:

- (a) *prevent accidents and harmful effects on the health of workers arising from employment in construction;*
- (b) *ensure appropriate safety during implementation of construction;*
- (c) *provide safety practice guidelines for appropriate measures of planning, control and enforcement.*

2.0 SCOPE

This document specifies broad guidelines on safe practices to be adhered to during construction activities. However, before commencing any job, specific hazards and its effects should be assessed and necessary corrective/preventive actions should be taken by all concerned. The document is intended only to supplement and not to replace or supersede the prevailing statutory requirements, which shall also be followed as applicable. For Personal Protective Equipment, PPE manual of TLC department shall be referred to. The scope of this document does not include the design aspects and quality checks during construction.

3.0 DEFINITIONS

Definitions of various terminology are given below:

- *Adequate, appropriate or suitable are used to describe qualitatively or quantitatively the means or method used to protect the worker.*
- *Brace: A structural member that holds one point in a fixed position with respect to another point; bracing is a system of structural members designed to prevent distortion of a structure.*
- *By hand: The work is done without the help of a mechanised tool.*
- *Competent Authority: A statutory agency having the power to issue regulations, orders or other instructions having the force of law.*
- *Competent person: A person possessing adequate qualifications, such as suitable training and sufficient knowledge, experience and skill for the safe performance of the specific work. The competent authorities may define appropriate criteria for the designation of such persons and may determine the duties to be assigned to them.*
- *Execution agency:
Any physical or legal person, having contractual obligation with the owner, and who employs one or more workers on a construction site*
- *Owner:*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Any physical or legal person for whom construction job is carried out.

It shall also include owner's designated representative / consultant / nominee / agent, authorized from time to time to act for and on its behalf, for supervising / coordinating the activities of the execution agency.

- *Hazard: Danger or potential danger.*
- *Guard-rail: An adequately secured rail erected along an exposed edge to prevent persons from falling.*
- *Hoist: A machine, which lifts materials or persons by means of a platform, which runs on guides.*
- *Lifting gear: Any gear or tackle by means of which a load can be attached to a lifting appliance but which does not form an integral part of the appliance or load.*
- *Lifting appliance: Any stationary or mobile appliance used for raising or lowering persons or loads.*
- *Means of access or egress: Passageways, corridors, stairs, platforms, ladders and any other means for entering or leaving the workplace or for escaping in case of danger.*
- *Scaffold: Any fixed, suspended or mobile temporary structure supporting workers and material or to gain access to any such structure and which is not a lifting appliance as defined above.*
- *Toe-board: A barrier placed along the edge of a scaffold platform, runway, etc., and secured there to guard against the slipping of persons or the falling of material.*
- *Worker: Any person engaged in construction activity.*
- *Workplace: All places where workers need to be or to go by reason of their work.*

4.0 GENERAL DUTIES

4.1 GENERAL DUTIES OF EXECUTION AGENCIES

4.1.1 Execution agency should:

- i) *Provide means and organization to comply with the safety and health measures required at the workplace.*
- ii) *Provide and maintain workplaces, plant, equipment, tools and machinery and organize construction work so that, there is no risk of accident or injury to health of workers. In particular, construction work should be planned, prepared and undertaken so that:*
 - (a) *Dangers, liable to arise at the workplace, are prevented;*
 - (b) *Excessively or unnecessarily strenuous work positions and movements are avoided;*
 - (c) *Organization of work takes into account the safety and health of workers;*
 - (d) *Materials and products used are suitable from a safety and health point of view;*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- (e) *Working methods are adopted to safeguard workers against the harmful effects of chemical, physical and biological agents.*
- iii) *Arrange for periodic safety inspections by competent persons of all buildings, plant, equipment, tools, machinery, workplaces and review of systems of work, regulations, standards or codes of practice. The competent person should examine and ascertain the safety of construction machinery and equipment.*
- iv) *Provide such supervision to ensure that workers perform their work with due regard to safety and health of theirs as well as that of others.*
- v) *Employ only those workers who are qualified, trained and suited by their age, physique, state of health and skill.*
- vi) *Satisfy themselves that all workers are informed and instructed in the hazards connected with their work and environment and trained in the precautions necessary to avoid accidents and injury to health.*
- vii) *Ensure that buildings, plant, equipment, tools, machinery or workplaces in which a dangerous defect has been found should not be used until the defect has been rectified.*
- viii) *Organize for and remain always prepared to take immediate steps to stop the operation and evacuate workers as appropriate, where there is an imminent danger to the safety of workers.*
- ix) *Establish a checking system by which it can be ascertained that all the members of a shift, including operators of mobile equipment, have returned to the camp or base at the close of work on dispersed sites and where small groups of workers operate in isolation.*
- x) *Provide appropriate first aid, training and welfare facilities to workers as per various statutes like the Factories Act, 1948 etc. and, whenever collective measures are not feasible or are insufficient, provide and maintain personal protective equipment and clothing in line with the requirement as per PPE Manual of TLC Department. They should also provide access to workers to occupational health services.*
- xi) *Educate workers about their right and the duty at any workplace to participate in ensuring safe working conditions to the extent of their control over the equipment and methods of work and to express views on working procedures adopted as may affect safety and health.*
- xii) *Ensure that except in an emergency, workers, unless duly authorized, should not interfere with, remove, alter or displace any safety device or other appliance furnished for their protection or the protection of others, or interfere with any method or process adopted with a view to avoiding accidents and injury to health.*
- xiii) *Ensure that workers do not operate or interfere with plant and equipment that they have not been duly authorised to operate, maintain or use.*
- xiv) *Ensure that workers do not sleep, rest or cook etc in dangerous places such as scaffolds, railway tracks, garages, confined spaces or in the vicinity of fires, dangerous or toxic substances, running machines or vehicles and heavy equipment etc.*
- xvii) *Obtain the necessary clearance / permits as required and specified by owner*

Place
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(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

4.2 GENERAL DUTIES OF OWNERS

4.2.1 Owners should:

- i) *co-ordinate or nominate a competent person to co-ordinate all activities relating to safety and health on their construction projects;*
- ii) *Inform all contractors on the project of special risks to health and safety; iii) Ensure that executing agency is aware of the owner's requirements and the executing agency's responsibilities with respect to safety practices before starting the job.*

5.0 SAFETY PRACTICES AT WORK PLACES

5.1. GENERAL PROVISIONS

5.1.1 *All openings and other areas likely to pose danger to workers should be clearly indicated.*

5.1.2 *Workers & Supervisors should use the safety helmet and other requisite Personal Protective Equipment according to job & site requirement. They should be trained to use personal protective equipment.*

5.1.3 *Never use solvents, alkalis and other oils to clean the skin.*

5.1.4 *Lift the load with back straight and knees bent as far as possible. Seek the help in case of heavy load.*

5.1.5 *Ensure the usage of correct and tested tools and tackles. Don't allow the make shift tools and tackles.*

5.1.6 *No loose clothing should be allowed while working near rotating equipment or working at heights.*

5.2 MEANS OF ACCESS AND EGRESS

Adequate and safe means of access (at least two, differently located) to and egress from all workplaces should be provided. Same should be displayed and maintained.

5.3 HOUSEKEEPING

5.3.1 Ensure:

- i) *proper storage of materials and equipment;*
- ii) *removal of scrap, inflammable material, waste and debris at appropriate intervals.*

5.3.2 *Removal of loose materials, which are not required for use, to be ensured. Accumulation of these at the site can obstruct means of access to and egress from workplaces and passageways.*

5.3.3 *Workplaces and passageways, that are slippery owing to oil, grease or other causes, should be cleaned up or strewn with sand, sawdust, ash etc.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

5.4 PRECAUTIONS AGAINST THE FALL OF MATERIALS & PERSONS AND COLLAPSE OF STRUCTURES

5.4.1 Precautions should be taken such as the provision of fencing, look-out men or barriers to protect any person against injury by the fall of materials, or tools or equipment being raised or lowered.

5.4.2 Where necessary to prevent danger, guys, stays or supports should be used or other effective precautions should be taken to prevent the collapse of structures or parts of structures that are being erected, maintained, repaired, dismantled or demolished.

5.4.4 All openings through which workers are liable to fall should be kept effectively covered or fenced and displayed prominently.

5.4.5 As far as practicable, guardrails and toe-boards should be provided to protect workers from falling from elevated workplaces.

5.5 PREVENTION OF UNAUTHORISED ENTRY

5.5.1 Construction sites located in built-up areas and alongside vehicular and pedestrian traffic routes should be fenced to prevent the entry of unauthorized persons.

5.5.2 Visitors should not be allowed access to construction sites unless accompanied by or authorized by a competent person and provided with the appropriate protective equipment.

5.6 FIRE PREVENTION AND FIRE FIGHTING

5.6.1 All necessary measures should be taken by the executing agency and owner to:

- i) avoid the risk of fire;
- ii) control quickly and efficiently any outbreak of fire; iii) bring out a quick and safe evacuation of persons.
- iv) Inform unit/fire station control room, where construction work is carried out within existing operating area.

5.6.2 Combustible materials such as packing materials, sawdust, greasy/oily waste and scrap wood or plastics should not be allowed to accumulate in workplaces but should be kept in closed metal containers in a safe place.

5.6.3 Places where workers are employed should, if necessary to prevent the danger of fire, be provided with:

- i) suitable and sufficient fire-extinguishing equipment, which should be easily visible and accessible;
- ii) an adequate water supply at sufficient pressure meeting the requirements.

5.6.4 To guard against danger at places having combustible material, workers should be trained in the action to be taken in the event of fire, including the use of means of escape.

5.6.5 At sites having combustible material, suitable visual signs should be provided to indicate clearly the direction of escape in case of fire.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

5.6.6 Means of escape should be kept clear at all times. Escape routes should be frequently inspected particularly in high structures and where access is restricted.

5.7 LIGHTING

5.7.1 Where natural lighting is not adequate, working light fittings or portable hand lamps should be provided at workplace on the construction site where a worker will do a job.

5.7.2 Emergency lighting should be provided for personnel safety during night time to facilitate standby lighting source, if normal system fails.

5.7.2 Artificial lighting should not produce glare or disturbing shadows.

5.7.3 Lamps should be protected by guards against accidental breakage.

5.7.4 The cables of portable electrical lighting equipment should be of adequate size & characteristics for the power requirements and of adequate mechanical strength to withstand severe conditions in construction operations.

5.8 PLANT, MACHINERY, EQUIPMENT AND HAND TOOLS

5.8.1 General Provisions

i) Plant, machinery and equipment including hand tools, both manual and power driven, should:

- a) be of proper design and construction, taking into account health, Safety and ergonomic principles.*
- b) be maintained in good working order;*
- c) be used only for work for which they have been designed.*
- d) be operated only by workers who have been authorized and given appropriate training.*
- e) be provided with protective guards, shields or other devices as required. iii) Adequate instructions for safe use should be provided.*

iii) Safe operating procedures should be established and used for all plant, machinery and equipment.

iv) Operators of plant, machinery and equipment should not be distracted while work is in progress.

- v) Plant, machinery and equipment should be switched off when not in use and isolated before any adjustment, clearing or maintenance is done.*
- vi) Where trailing cables or hose pipes are used they should be kept as short as practicable and not allowed to create a hazard.*
- vii) All moving parts of machinery and equipment should be enclosed or adequately guarded.*
- viii) Every power-driven machine and equipment should be provided with adequate means, immediately accessible and readily identifiable to the operator, of stopping it quickly and preventing it from being started again inadvertently.*
- ix) Operators of plant, machinery, equipment and tools should be provided with PPEs, including where necessary, suitable ear protection.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

5.8.2 Hand tools

- i) *Hand tools should be repaired by competent persons.*
- ii) *Heads of hammers and other shock tools should be dressed or ground to a suitable radius on the edge as soon as they begin to mushroom or crack.*
- iii) *When not in use and while being carried or transported sharp tools should be kept in sheaths, shields, chests or other suitable containers.*
- iv) *Only insulated or non-conducting tools should be used on or near live electrical installations.*
- v) *Only non-sparking tools should be used near or in the presence of flammable or explosive dusts or vapors.*

5.8.3 Pneumatic Tools

- i) *Operating triggers on portable pneumatic tools should be:*
 - a) *so placed as to minimize the risk of accidental starting of the machine.*
 - b) *so arranged as to close the air inlet valve automatically when the pressure of the operator's hand is removed.*
- ii) *Hose and hose connections for compressed air supply to portable pneumatic tools should be:*
 - a) *designed and tested for the pressure and service for which they are intended;*
 - b) *fastened securely on the pipe outlet and equipped with the safety chain, as appropriate.*
- iv) *Pneumatic shock tools should be equipped with safety clips or retainers to prevent dies and tools from being accidentally expelled from the barrel.*
- v) *Pneumatic tools should be disconnected from power and the pressure in hose lines released before any adjustment or repair is made.*

5.8.4 Electrical Tools

- i) *Low voltage portable electrical tools should generally be used.*
- ii) *All electrical tools should be earthed, unless they are "all insulated" or "double insulated" tools which do not require earthing.*
- iii) *All electrical tools should get inspected and maintained on a regular basis by a competent electrician and complete records kept.*

5.8.5 Engines

- i) *Engines should:*
 - a) *be installed so that they can be started safely and the maximum safe speed cannot be exceeded.*
 - b) *have controls for limiting speed.*
 - c) *have devices to stop them from a safe place in an emergency.*
- ii) *IC engines should not be run in confined spaces unless adequate exhaust ventilation is provided.*
- iii) *When IC engines are being fueled: the engine should be shut off.*
 - a) *care should be taken to avoid spilling fuel;*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- b) *no person should smoke or have a naked light in the vicinity.*
- c) *a fire extinguisher should be kept readily available.*
- iv) *Secondary fuel reservoir should be placed outside the engine room.*

6.0 CONSTRUCTION ACTIVITIES

The various common activities in construction are as under:

- a. *Excavation*
- b. *Scaffolding, Platforms & Ladders*
- c. *Structural Work, Laying of Reinforcement & Concreting*
- d. *Road Work*
- e. *Cutting /Welding*
- f. *Working in Confined Space*
- g. *Working at Heights*
- h. *Handling & Lifting Equipment*
- i. *Vehicle Movement*
- j. *Demolition*
- k. *Masonry Works*

The safe practices to be followed during the implementation of above construction activities are given below:

6.2 SCAFFOLDING, PLATFORMS & LADDERS

6.2.1 Metal as material of construction

i) A scaffold should be provided and maintained or other equally safe and suitable provision should be made where work cannot safely be done on or from the ground or from part of a building or other permanent structure.

ii) Scaffolds should be provided with safe means of access, such as stairs, ladders or ramps. Ladders should be secured against inadvertent movement.

iii) Every scaffold should be constructed, erected and maintained so as to prevent collapse or accidental displacement when in use.

iv) Every scaffold and part thereof should be constructed:

- (a) in such a way so as not to cause hazards for workers during erection and dismantling;*
- (b) in such a way so as guard rails and other protective devices, platforms, ladders, stairs or ramps can be easily put together;*
- (c) with sound material and of requisite size and strength for the purpose for which it is to be used and maintained in a proper condition.*
- v) Boards and planks used for scaffolds should be protected against splitting.*
- vi) Materials used in the construction of scaffolds should be stored under good conditions and apart from any material unsuitable for scaffolds.*
- vii) Couplers should not cause deformation in tubes. Couplers should be made of drop forged steel or equivalent material.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- viii) Tubes should be free from cracks, splits and excessive corrosion and be straight to the eye, and tube ends cut cleanly square with the tube axis.
- ix) Scaffolds should be designed for their maximum load as per relevant code.
- x) Scaffolds should be adequately braced.
- xi) Scaffolds which are not designed to be independent should be rigidly connected to the building at designated vertical and horizontal places.
- xii) A scaffold should never extend above the highest anchorage to an extent which might endanger its stability and strength.
- xiii) Loose bricks, drainpipes, chimney-pots or other unsuitable material should not be used for the construction or support of any part of a scaffold.
- xiv) Scaffolds should be inspected and certified:
- (a) before being taken into use;
 - (b) at periodic intervals thereafter as prescribed for different types of scaffolds;
 - (c) after any alteration, interruption in use, exposure to weather or seismic conditions or any other occurrence likely to have affected their strength or stability.
- xv) Inspection should more particularly ascertain that:
- (d) the scaffold is of suitable type and adequate for the job;
 - (e) materials used in its construction are sound and of sufficient strength;
 - (f) it is of sound construction and stable;
 - (g) that the required safeguards are in position.
- xvi) A scaffold should not be erected, substantially altered or dismantled except by or under the supervision.
- xvii) Every scaffold should be maintained in good and proper condition, and every part should be kept fixed or secured so that no part can be displaced in consequence of normal use.

6.2.2 Lifting appliances on scaffolds

i) When a lifting appliance is to be used on a scaffold:

- (a) the parts of the scaffold should be carefully inspected to determine the additional strengthening and other safety measures required;
- (b) any movement of the scaffold members should be prevented;
- (c) if practicable, the uprights should be rigidly connected to a solid part of the building at the place where the lifting appliance is erected.

6.2.3 Prefabricated scaffolds

i) In the case of prefabricated scaffold systems, the instructions provided by the manufacturers or suppliers should be strictly adhered to. Prefabricated scaffolds should have adequate arrangements for fixing bracing.

ii) Frames of different types should not be intermingled in a single scaffold.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- iii) *Scaffolding shall be erected on firm and level ground.*
- iv) *All members of metal scaffolding shall be checked periodically to screen out defective / rusted members. All joints should be properly lubricated for easy tightening.*
- v) *Entry to scaffolding should be restricted.*
- vi) *Erection, alteration and removal shall be done under supervision of experienced personnel.*
- vii) *Use of barrels, boxes, loose bricks etc., for supporting platform shall not be permitted.*
- viii) *Each supporting member of platform shall be securely fastened and braced ix) Where planks are butt-joined, two parallel putlogs shall be used, not more than 100mm apart, to give support to each plank.*
- ix) *Platform plank shall not project beyond its end support to a distance exceeding 4 times the thickness of plank, unless it is effectively secured to prevent tipping. Cantilever planks should be avoided. xi) The platform edges shall be provided with 150mm high toe board to eliminate hazards of tools or other objects falling from platform.*
- x) *Erect ladders in the “four up-one out position” xiii) Lash ladder secured with the structure.*
- xi) *Using non-slip devices, such as, rubber shoes or pointed steel ferules at the ladder foot, rubber wheels at ladder top, fixing wooden battens, cleats etc. xv) When ladder is used for climbing over a platform, the ladder must be of sufficient length, to extend at least one meter above the platform, when erected against the platform in “four up-one out position.”*
- xii) *Portable ladders shall be used for heights not more than 4mt. Above 4mt flights, fixed ladders shall be provided with at least 600 mm landings at every 6mt or less.*
- xiii) *The width of ladder shall not be less than 300mm and rungs shall be spaced not more than 300mm.*
- xiv) *Every platform and means of access shall be kept free from obstruction.*
- xv) *If grease, mud, gravel, mortar etc., fall on platform or scaffolds, these shall be removed immediately to avoid slippage.*
- xvi) *Workers shall not be allowed to work on scaffolds during storms or high wind. After heavy rain or storms, scaffolds shall be inspected before reuse. xxi) Don't overload the scaffolding. Remove excess material and scrap immediately. xxii) Dismantling of scaffolds shall be done in a pre-planned sequential manner.*

6.2.4 Suspended scaffolds / boatswain's chair

- i) In addition to the requirements for scaffolds in general as regards soundness, stability and protection against the risk of falls, suspended scaffolds should meet the following specific requirements.*
 - (a) platforms should be designed and built with dimensions that are compatible with the stability of the structure as a whole, especially the length;*
 - (b) the number or anchorage should be compatible with the dimensions of the platform;*
 - (c) the safety of workers should be safeguarded by an extra rope having a point of attachment independent of the anchorage arrangements of the scaffold;*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- (d) *the anchorage and other elements of support of the scaffold should be designed and built in such a way as to ensure sufficient strength;*
- (e) *the ropes, winches, pulleys or pulley blocks should be designed, assembled, used and maintained according to the requirements established for lifting gear adapted to the lifting of persons according to national laws and regulations;*
- (f) *Before use, the whole structure should be checked by a competent person.*

6.2.5 Bamboo / Casuarina Scaffolding

- i) *In general, it should be avoided as far as possible.*
- ii) *For construction and maintenance of residential and office buildings, bamboo / Casuarinas scaffold, if used, should conform to provisions given in IS-3696 (Part 1)-1987.*

6.3 STRUCTURAL WORK

6.3.1 General provisions

- i) *The erection or dismantling of buildings, structures, civil engineering works, formwork, false work and shoring should be carried out by trained workers only under the supervision of a competent person.*
- ii) *Precautions should be taken to guard against danger to workers arising from any temporary state of weakness or instability of a structure.*
- iii) *Formwork, false work and shoring should be so designed, constructed and maintained that it will safely support all loads that may be imposed on it.*
- iv) *Formwork should be so designed and erected that working platforms, means of access, bracing and means of handling and stabilizing are easily fixed to the formwork structure.*

6.3.2. Erection and dismantling of steel and prefabricated structures

- i) *The safety of workers employed on the erection and dismantling of steel and prefabricated structures should be ensured by appropriate means, such as provision and use of:*
 - (a) *ladders, gangways or fixed platforms;*
 - (b) *platforms, buckets, boatswain's chairs or other appropriate means suspended from lifting appliances;*
 - (c) *safety harnesses and lifelines, catch nets or catch platforms;*
- ii) *Steel and prefabricated structures should be so designed and made that they can be safely transported and erected.*
- iii) *In addition to the need for the stability of the part when erected, the design should explicitly take following into account:*
 - (a) *the conditions and methods of attachment in the operations of transport, storing and temporary support during erection or dismantling as applicable;*
 - (b) *Methods for the provision of safeguards such as railings and working platforms, and, when necessary, for mounting them easily on the structural steel or prefabricated parts.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- iv) *The hooks and other devices built in or provided on the structural steel or prefabricated parts that are required for lifting and transporting them should be so shaped, dimensioned and positioned as:*
- (a) *to withstand with a sufficient margin, the stresses to which they are subjected;*
 - (b) *Not to set up stresses in the part that could cause failures, or stresses in the structure itself not provided for in the plans, and be designed to permit easy release from the lifting appliance. Lifting points for floor and staircase units should be located (recessed if necessary) so that they do not protrude above the surface;*
 - (c) *To avoid imbalance or distortion of the lifted load.*
- v) *Store places should be so constructed that:*
- (a) *there is no risk of structural steel or prefabricated parts falling or overturning;*
 - (b) *storage conditions generally ensure stability and avoid damage having regard to the method of storage and atmospheric conditions;*
 - (c) *racks are set on firm ground and designed so that units cannot move accidentally.*
- vi) *While they are being stored, transported, raised or set down, structural steel or prefabricated parts should not be subjected to stresses prejudicial to their stability.*
- vii) *Every lifting appliance should:*
- (a) *be suitable for the operations and not be capable of accidental disconnection;*
 - (b) *be approved or tested as per statutory requirement.*
- viii) *Lifting hooks should be of the self-closing type or of a safety type and should have the maximum permissible load marked on them.*
- ix) *Tongs, clamps and other appliances for lifting structural steel and prefabricated parts should:*
- (a) *be of such shape and dimensions as to ensure a secure grip without damaging the part;*
 - (b) *be marked with the maximum permissible load in the most unfavorable lifting conditions.*
- x) *Structural steel or prefabricated parts should be lifted by methods or appliances that prevent them from spinning accidentally.*
- xi) *When necessary to prevent danger, before they are raised from the ground, structural steel or prefabricated parts should be provided with safety devices such as railings and working platforms to prevent falls of persons.*
- xii) *While structural steel or prefabricated parts are being erected, the workers should be provided with appliances for guiding them as they are being lifted and set down, so as to avoid crushing of hands and to facilitate the operations. Use of such appliances should be ensured.*
- xiii) *A raised structural steel or prefabricated part should be so secured and wall units so propped that their stability cannot be imperiled, even by external agencies such as wind and passing loads before its release from the lifting appliance.*
- xiv) *At work places, instruction should be given to the workers on the methods, arrangements and means required for the storage, transport, lifting and erection of structural steel or prefabricated parts, and, before erection starts, a meeting of all those responsible should be held to discuss and confirm the requirements for safe erection.*
- xv) *During transportation within the construction area, attachments such as slings and stirrups mounted on structural steel or prefabricated parts should be securely fastened to the parts.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- xvi) *Structural steel or prefabricated parts should be so transported that the conditions do not affect the stability of the parts or the means of transport result in jolting, vibration or stresses due to blows, or loads of material or persons. xvii) When the method of erection does not permit the provision of other means of protection against fall of persons, the workplaces should be protected by guardrails, and if appropriate by toe-boards.*
- xviii) *When adverse weather conditions such as snow, ice and wind or reduced visibility entail risks of accidents, the work should be carried on with particular care, or, if necessary, interrupted.*
- xix) *Structures should not be worked on during violent storms or high winds, or when they are covered with ice or snow, or are slippery from other causes.*
- xx) *If necessary, to prevent danger, structural steel parts should be equipped with attachments for suspended scaffolds, lifelines or safety harnesses and other means of protection.*
- xxi) *The risks of falling, to which workers moving on high or sloping girders are exposed, should be limited by all means of adequate collective protection or, where this is impossible, by the use of a safety harness that is well secured to a strong support.*
- xxii) *Structural steel parts that are to be erected at a great height should as far as practicable be assembled on the ground.*
- xxiii) *When structural steel or prefabricated parts are being erected, a sufficiently extended area underneath the workplace should be barricaded or guarded*
- xxiv) *Steel trusses that are being erected should be adequately shored, braced or guyed until they are permanently secured in position.*
- xxv) *Load-bearing structural member should not be dangerously weakened by cutting, holing or other means.*
- xxvi) *Structural members should not be forced into place by the hoisting machine while any worker is in such a position that he could be injured by the operation.*
- xxvii) *Open-web steel joists that are hoisted singly should be directly placed in position and secured against dislodgment.*

6.4 CUTTING/WELDING

6.5.1 Common hazards involved in welding/cutting are sparks, molten metal, flying particles, harmful light rays, electric shocks etc. Following precautions should be taken after getting safe work permit in form 310-016: -

- i) *A dry chemical type fire extinguisher shall be made available in the work area.*
- ii) *Adequate ventilation shall be ensured by opening manholes and fixing a shield or forced circulation of air etc., while doing a job in confined space.*
- iii) *Ensure that only approved and well-maintained apparatus, such as torches, manifolds, regulators or pressure reducing valves, and acetylene generators, be used.*
- iv) *All covers and panels shall be kept in place, when operating an electric Arc welding machine.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- v) *The work piece should be connected directly to Power supply, and not indirectly through pipelines/structures/equipment etc.*
- vi) *The welding receptacles shall be rated for 63 A suitable for 415V, 3-Phase system with a scraping earth. Receptacles shall have necessary mechanical interlocks and earthing facilities.*
- vii) *All cables, including welding and ground cables, shall be checked for any worn out or cracked insulation before starting the job. Ground cable should be separate without any loose joints.*
- viii) *Cable coiling shall be maintained at minimum level, if not avoidable. ix) An energized electrode shall not be left unattended.*
- x) *The power source shall be turned off at the end of job.*
- xi) *All gas cylinders shall be properly secured in upright position.*
- xii) *Acetylene cylinder shall be turned and kept in such a way that the valve outlet points away from oxygen cylinder.*
- xiii) *Acetylene cylinder key for opening valve shall be kept on valve stem, while cylinder is in use, so that the acetylene cylinder could be quickly turned off in case of emergency. Use flash back arrestors to prevent back-fire in acetylene/oxygen cylinder.*
- xiv) *When not in use, valves of all cylinders shall be kept closed.*
- xv) *All types of cylinders, whether full or empty, shall be stored at cool, dry place under shed.*
- xvi) *Forced opening of any cylinder valve should not be attempted.*
- xvii) *Lighted gas torch shall never be left unattended.*
- xviii) *Store acetylene and oxygen cylinders separately.*
 - xix) *Store full and empty cylinders separately.*
 - xx) *Avoid cylinders coming into contact with heat.*
- xxi) *Cylinders that are heavy or difficult to carry by hand may be rolled on their bottom edge but never dragged.*
- xxii) *If cylinders have to be moved, be sure that the cylinder valves are shut off.*
- xxiii) *Before changing torches, shut off the gas at the pressure reducing regulators and not by crimping the hose.*
- xxiv) *Do not use matches to light torches, use a friction lighter.*
- xxv) *Move out any leaking cylinder immediately. xxvi) Use trolleys for oxygen & acetylene cylinder and chain them.*
- xxvii) *Always use Red hose for acetylene and other fuel gases and Black for oxygen, and ensure that both are in equal length.*
- xxviii) *Ensure that hoses are free from burns, cuts and cracks and properly clamped.*
- xxix) *Avoid dragging hoses over sharp edges and objects*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- xxx) *Do not wrap hoses around cylinders when in use or stored.*
- xxxi) *Protect hoses from flying sparks, hot slag, and other hot objects.*
- xxxii) *Lubricants shall not be used on Ox-fuel gas equipment. xxxiii) During cutting/welding, use proper type goggles/face shields.*

6.5 WORKING IN CONFINED SPACES

6.6.1 *Following safety practices for working in confined space like towers, columns, tanks and cellars should be followed in addition to the safety guidelines for specific jobs like scaffolding, cutting/welding etc.*

- i) *Entry inside the confined area and to carry out any job should be done after issuance of valid permit only, in line with form 310-017.*
- ii) *Ensure proper and accessible means of exit before entry inside a confined space. iii) The number of persons allowed inside the area should be limited to avoid overcrowding.*
- iv) *When the work is going on in the confined space, there should always be one man standby at the nearby man way.*
- v) *Before entering inside the area - underground or located at lower elevation, probability of dense vapors accumulating nearby should also be considered in addition to inside the vessel.*
- vi) *Ensure requisite O₂ level before entry in the confined space and monitor level periodically or other wise use respiratory devices.*
- vii) *Check for no Hydrocarbon or toxic substances before entry and monitor level periodically or use requisite Personal Protective Equipment.*
- viii) *Ensure adequate ventilation or use respiratory devices.*
- ix) *Depending upon need, necessary respirator system, gas masks and suit shall be worn by everyone entering confined space. In case of sewer, manholes or in the confined area where there is a possibility of toxic or inert gas, gas masks shall be used by everyone while entering.*
- x) *Barricade the confined spaces*
- xi) *Use 24V flameproof lamp fittings only for illumination.*
- xii) *Use tools with air motors or electric tools with maximum voltage of 24V.*
- xiii) *Housekeeping shall be well maintained.*
- xiv) *Safety helmet, safety shoes and safety belt shall be worn by everyone entering the confined space.*
- xv) *Don't wear loose clothing while working in a confined space. xvi) The gas cylinders used for cutting/welding shall be kept outside.*
- xvi) *All cables, hoses, welding equipment etc., shall be removed from confined space at end of each work day, even if the work is to be resumed in the same space the next day.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- xvii) *To the extent possible sludge shall be cleared and removed from outside before entering.*
- xix) *No naked light or flame or hot work such as welding, cutting and soldering should be permitted inside a confined space or area unless it has been made completely free of the flammable atmosphere, tested and found safe by a competent person. Only non-sparking tools and flameproof hand lamps protected with guard and safety torches should be used inside such confined space or area for initial inspection, cleaning or other work required to be done for making the area safe.*
- xx) *Communication should be always maintained between the worker and the attendant.*

6.7 WORKING AT HEIGHTS

6.7.1 General Provision

- i) *While working at a height of more than 2 meters, ISI approved safety belt shall be used.*
- ii) *While working at a height of more than 2 meters, permit should be issued by competent person in form 310-015, before commencement of the job.*
- iii) *Worker should be well trained on usage of safety belt including its proper usage at the time of ascending/descending.*
- iv) *All tools should be carried in tool kits to avoid their falling.*
- v) *If the job is on fragile/sloping roof, roof walk ladders shall be used, in addition to getting safe work permit in form 310-012.*
- vi) *Provide lifeline wherever required.*
- vii) *Additional safety measures like providing Fall Arrestor Type Safety belt, safety net should be provided depending upon site conditions, job requirements.*
- viii) *Keep working area neat and clean. Remove scrap material immediately.*
- ix) *Don't throw or drop material/equipment from height.*
- x) *Avoid jumping from one member to another. Use proper passageway.*
- xi) *Keep both hands free while climbing. Don't try to bypass the steps of the ladder.*
- xii) *Try to maintain calm at height. Avoid over exertion.*
- xiii) *Avoid movements on beam.*
- xiv) *Elevated workplaces including roofs should be provided with safe means of access and egress such as stairs, ramps or ladders.*

6.7.2 Roof Work

- i) *All roof-work operations should be pre-planned and properly supervised.*
- ii) *Roof work should only be undertaken by workers who are physically and psychologically fit and have the necessary knowledge and experience for such work.*
- iii) *Work on roofs shouldn't be carried on in weather conditions that threaten the safety of workers. iv) Crawling boards, walkways and roof ladders should be securely fastened to a firm structure.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- v) *Roofing brackets should fit the slope of the roof and be securely supported.*
- vi) *Where it is necessary for a person to kneel or crouch near the edge of the roof, necessary precautions should be taken.*
- vii) *On a large roof where work have to be carried out at or near the edge, a simple barrier consisting of crossed scaffold tubes supporting a tubing guardrail may be provided.*
- viii) *All covers for openings in roofs should be of substantial construction and be secured in position.*
- ix) *Roofs with a pitch of more than 10 should be treated as sloping.*
- x) *When work is being carried out on sloping roof, sufficient and suitable crawling boards or roof ladders should be provided and firmly secured in position.*
- xi) *During extensive work on the roof, strong barriers or guardrails and toe-boards should be provided to stop a person from falling off the roof.*
- xii) *Where workers are required to work on or near roof or other places covered with fragile material, through which they are liable to fall, they should be provided with suitable roof ladders or crawling boards strong enough and when spanning across the supports for the roof covering to support those workers.*
- xiii) *A minimum of two boards should be provided so that it is not necessary for a person to stand on a fragile roof to move a board or a ladder, or for any other reason.*

6.8 HANDLING AND LIFTING EQUIPMENT:

6.8.1 General Provisions

Following are the general guidelines to be followed with regard to all types of handling and lifting equipment in addition to the guidelines for specific type of equipment dealt later on.

- i) *There should be a well-planned safety program to ensure that all the lifting appliances and lifting gear are selected, installed, examined, tested, maintained, operated and dismantled with a view to preventing the occurrence of any accident;*
- ii) *All lifting appliances shall be examined by competent persons at frequencies as specified in "The Factory act".*
- iii) *Check thoroughly quality, size and condition of all lifting tools like chain pulley blocks, slings, U-clamps, D-shackles etc. before putting them in use.*
- iv) *Safe lifting capacity of all lifting & handling equipment, tools and shackles should be got verified and certificates obtained from competent authorities before its use. The safe working load shall be marked on them.*
- v) *Check periodically the oil, brakes, gears, horns and tyre pressure of all moving equipment like cranes, forklifts, trailers etc. as per manufacturer's recommendations.*
- vi) *Check the weights to be lifted and accordingly decide about the crane capacity, boom length and angle of erection.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- vii) *Allow lifting slings as short as possible and check packing at the friction points.*
- viii) *While lifting/placing of the load, no unauthorized person shall remain within the radius of the boom and underneath the load.*
- ix) *While loading, unloading and stacking of pipes, proper wedges shall be placed to prevent rolling down of the pipes.*
- x) *Control longer jobs being lifted up from both ends.*
- xi) *Only trained operators and riggers should carry out the job. While the crane is moving or lifting the load, the trained rigger should be there for keeping a vigil against hitting any other object.*
- xii) *During high wind conditions and nights, lifting of heavy equipment should be avoided. If unavoidable to do erection in night, operator and rigger should be fully trained for night signaling. Also proper illumination should be there.*
- xiii) *Allow crane to move on hard, firm and leveled ground.*
- xiv) *When crane is in idle condition for long periods or unattended, crane boom should either be lowered or locked as per manufacturer's guidelines.*
- xv) *Hook and load being lifted shall remain in full visibility of crane operators, while lifting, to the extent possible.*
- xvi) *Don't allow booms or other parts of crane to come within 3 meters reach of overhead electrical cables.*
- xvii) *No structural alterations or repairs should be made to any part of a lifting appliance, which may affect the safety of the appliance without the permission and supervision of the competent person.*

6.8.2 Hoists

- i) *Hoist shafts should be enclosed with rigid panels or other adequate fencing at:*
 - (a) *ground level on all sides;*
 - (b) *all other levels at all points at which access is provided;*
 - (c) *all points at which persons are liable to be struck by any moving part.*
- ii) *The enclosure of hoist shafts, except at approaches should extend where practicable at least 2mt above the floor, platform or other place to which access is provided except where a lesser height is sufficient to prevent any person falling down the hoist way and there is no risk of any person coming into contact with any moving part of the hoist, but in no case should the enclosure be less than 1mt in height.*
- iii) *The guides of hoist platforms should offer sufficient resistance to bending and, in the case of jamming by a safety catch, to buckling.*
- iv) *Where necessary to prevent danger, adequate covering should be provided above the top of hoist shafts to prevent material falling down them.*
- v) *Outdoor hoist towers should be erected on firm foundations, and securely braced, guyed and anchored.*
- vi) *A ladder way should extend from the bottom to the top of outdoor hoist towers, if no other ladder way exists within easy reach.*
- vii) *Hoisting engines should be of ample capacity to control the heaviest load that they will have to move.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- viii) *Hoists should be provided with devices that stop the hoisting engine as soon as the platform reaches its highest stopping place.*
- ix) *Winches should be so constructed that the brake is applied when the control handle is not held in the operating position.*
- x) *It should not be possible to set in motion from the platform a hoist, which is not designed for the conveyance of persons. xi) Winches should not be fitted with pawl and ratchet gears on which the pawl must be disengaged before the platform is lowered.*
- xii) *Hoist platforms should be capable of supporting the maximum load that they will have to carry with a safety factor.*
- xiii) *Hoist platforms should be equipped with safety gear that will hold the platform with the maximum load if the hoisting rope breaks.*
- xiv) *If workers have to enter the cage or go on the platform at landings there should be a locking arrangement preventing the cage or platform from moving while any worker is in or on it.*
- xv) *On sides not used for loading and unloading, hoist platforms should be provided with toe-boards and enclosures of wire mesh or other suitable material to prevent the fall of parts of loads. xvi) Where necessary to prevent danger from falling objects, hoist platforms should be provided with adequate covering.*
- xvii) *Counterweights consisting of an assemblage of several parts should be made of specially constructed parts rigidly connected together.*
- xviii) *Counterweights should run in guides.*
- xix) *Platforms should be provided at all landings used by workers.*
- xx) *Following notices should be posted up conspicuously and in very legible characters:*
- (a) *on all hoists:*
- i. *on the platform: the carrying capacity in kilograms or other appropriate standard unit of weight;*
- ii. *on the hoisting engine: the lifting capacity in kilograms or other appropriate standard unit of weight;*
- (b) *on hoists authorised or certified for the conveyance of persons:*
- i. *on the platform or cage: the maximum number of persons to be carried at one time;*
- (c) *on hoists for goods only:*
- i. *on every approach to the hoist and on the platform: prohibition of use by persons.*
- xxi) *Hoists intended for the carriage of persons should be provided with a cage so constructed as to prevent any person from falling out or being trapped between the cage and any fixed part of the structure when the cage gate is shut, or from being struck by the counterbalance weight or by articles or materials tailing down the hoist way.*
- xxii) *On each side in which access is provided, the cage should have a gate fitted with devices which ensure that the gate cannot be opened except when the cage is at a landing and that the gate must be closed before the cage can move away from the landing.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- xxiii) *Every gate in the enclosure of the hoist shaft which gives access from a landing place to the cage should be fitted with devices to ensure that the gate cannot be opened except when the cage is at that landing place, and that the cage cannot be moved away from that landing place until the gate is closed.*

6.8.3 Derricks

Stiff-leg derricks

- i) *Derricks should be erected on a firm base capable of taking the combined weight of the crane structure and maximum rated load.*
- ii) *Devices should be used to prevent masts from lifting out of their seating.*
- iii) *Electrically operated derricks should be effectively earthed from the sole plate or framework.*
- iv) *Counterweights should be so arranged that they do not subject the backstays, sleepers or pivots to excessive strain.*
- v) *When derricks are mounted on wheels:*
 - a) *a rigid member should be used to maintain the correct distance between the wheels;*
 - b) *they should be equipped with struts to prevent them from dropping if a wheel breaks or the derrick is derailed.*
- vi) *The length of a derrick jib should not be altered without consulting the manufacturer.*

Guy derricks

- i. *The restraint of the guy ropes should be ensured by fitting stirrups or anchor plates in concrete foundations.*
- ii. *The mast of guy derricks should be supported by six top guys spaced approximately equally.*
- iii. *The spread of the guys of a guy derrick crane from the mast should not be more than 45° from the horizontal.*
- iv. *Guy ropes of derricks should be equipped with a stretching screw or turnbuckle or other device to regulate the tension.*
- v. *Gudgeon pins, sheave pins and fool bearings should be lubricated frequently.*
- vi. *When a derrick is not in use, the boom should be anchored to prevent it from swinging.*

6.8.4 Lifting ropes

- i) *Only ropes with a known safe working capacity should be used as lifting ropes.*
- ii) *Lifting ropes should be installed, maintained and inspected in accordance with manufacturers' instructions.*
- iii) *Repaired steel ropes should not be used on hoists.*
- iv) *Where multiple independent ropes are used, for the purpose of stability, to lift a work platform, each rope should be capable of carrying the load independently.*

6.9 VEHICLE MOVEMENT

6.9.1 *Park vehicles only at designated places. Don't block roads to create hindrance for other vehicles.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

6.9.2 Don't overload the vehicle.

6.9.3 Obey speed limits and traffic rules.

6.9.4 Always expect the unexpected and be a defensive driver.

6.9.5 Drive carefully during adverse weather and road conditions.

6.9.6 Read the road ahead and ride to the left.

6.9.7 Be extra cautious at nights. Keep wind screens clean and lights in working condition.

6.9.8 All vehicles used for carrying workers and construction materials must undergo predictive/ preventive maintenance and daily checks

6.9.9 Driver with proper valid driving license shall only be allowed to drive the vehicle

6.9.10 Routes shall be leveled, marked and planned in such a way so as to avoid potential hazards such as overhead power lines and sloping ground etc.

6.9.11 While reversing the vehicles, help of another worker should be ensured at all times

6.9.12 An unattended vehicle should have the engine switched off

6.9.13 Wherever possible one-way system shall be followed

6.9.14 Barriers/fixed stops should be provided for excavation/openings to prevent fall of vehicle

6.9.15 Load should be properly secured

6.9.16 The body of the tipper lorry should always be lowered before driving the vehicle off.

6.9.17 Signs/signals/caution boards etc. should be provided on routes.

6.10.2. Demolition of structural steelwork

- i) All precautions should be taken to prevent danger from any sudden twist, spring or collapse of steelwork, ironwork or reinforced concrete when it is cut or released.
- ii) Steel construction should be demolished tier by tier. iii) Structural steel parts should be lowered and not dropped from a height.

7.0 FIRST AID

First aid facilities should be provided in line with various statutory regulations like factory act etc. However, following care should be taken:

- i) First aid, including the provision of trained personnel should be ensured at work sites. Arrangement should be made for ensuring the medical attention of the injured workers. First aid box should be as per the Factory rules.
- ii) Suitable rescue equipment, like stretchers should be kept readily available at the construction site.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- iii) *First-aid kits or boxes, as appropriate and as per statutory requirements, should be provided at workplaces and be protected against contamination by dust, moisture etc.*
- iv) *First-aid kit or boxes should not keep anything besides material for first aid in emergencies.*
- v) *First-aid kits and boxes should contain simple and clear instructions to be followed, be kept under the charge of a responsible person qualified to render the first aid and be regularly inspected and stocked.*
- vi) *Emergency telephone numbers of nearby Hospitals, Police, Fire Station and Administration should be prominently displayed.*

8.0 DOCUMENTATION

The intention of keeping documentation of all types of accident(s) is to prevent recurrence of similar accident(s). All accidents should be reported as per Guidelines and Factories Act, 1948.

All accidents (major, minor or near miss) should be investigated, analyzed and recommendations should be documented along with implementation status.

All related data should be well-documented and further analysis highlighting the major cause(s) of accidents be done. This will help in identifying thrust areas and training needs for prevention of accidents.

9.0 SAFETY AWARENESS & TRAINING

Safety awareness to all section of personnel ranging from site-in-charge to workmen helps not only preventing the risk but also build up the confidence. Time and expenditures also get saved as a result.

Safety awareness basically seeks to persuade/inform people on safety besides supplementing skill also. Awareness program may include followings:

- i) **Poster:** *Posters with safety slogan in humorous, gruesome demonstrating manner may be used to discourage bad habits attributable to accidents by appealing to the workers' pride, self-love, affection curiosity or human aspects. These should be displayed in prominent location(s).*
- iii) **Safety Sign Boards:** *Different type of message of cautioning, attention, notice etc. should be displayed at the appropriate places for learning/ awareness of the workmen while working at site.*
- iv) **Films & Slides:** *Film(s) narrating the accident including the causes and possible remedial ways of preventing the recurrence of a similar accident should be displayed at regular intervals. Slides consisting main points of the film show may also be shown to workers.*
- v) **Talks, lectures & conferences:** *The success of these events would depend much on audience's understandings of the speaker (s). The speakers are to be knowledgeable and good presenter. Speakers should know to hold the attention and to influence the audiences.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

- vi) **Competitions:** *Organize competition(s) between the different depts., /categories of workers. The sense of reward/ recognition also will improve safety awareness and result in enhancing safety levels.*
- vii) **Exhibitions:** *Exhibitions also make the workers acquainted with hazards and means of preventive measures.*
- viii) **Safety Publication:** *Safety publications including pocket books dealing with ways of investigation and prevention in the field of safety and so on, may be distributed to workers to promote the safety awareness.*
- ix) **Safety Drives:** *From time to time, an intensive safety drive by organizing a safety day or a safety week etc. should be launched.*
- x) **Training:** *Training for covering the hazards for different trade should be imparted. Training should also include the specific hazards related to a job in addition to the general safety training as has been dealt in various chapters and should include all workers.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

10.0 LIST OF SAFETY CODES FOR CIVIL WORKS PUBLISHED BY BUREAU OF INDIAN STANDARDS

Sl.No.	Code No.	Title
01	IS : 818	Code of Practice for Safety and Health Requirements in Electric and Gas Welding and Cutting Operations – First Revision.
02	IS : 875	Code of practice for Structural safety of buildings: Masonry walls
03	IS : 933	Specification for Portable Chemical Fire Extinguisher, Foam Type – Second Revision.
04	IS :1179	Specification for Equipment for Eye and Face Protection during Welding – First Revision.
05	IS : 1904	Code of practice for Structural safety of buildings: Shallow foundations
06	IS : 1905	Code of practice for Structural safety of buildings: Masonry walls
07	IS : 2171	Specification for Portable Fire Extinguishers, Dry Powder Type – Second Revision.
08	IS : 2361	Specification for Building Grips – First Revision.
09	IS : 2750	Specification for Steel Scaffoldings.
10	IS : 2925	Specification for Industrial Safety Helmets – First Revision
11	IS : 3016	Code of Practice for Fires Precautions in Welding and Cutting Operations – First Revision
12	IS : 3521	Industrial safety belts and harnesses
13	IS : 3696	Safety Code for Scaffoldings and Ladders : Part I – Scaffoldings.
14	IS : 3696	Safety Code for Scaffoldings and Ladders : Part II – Ladders.
15	IS : 3764	Safety Code for Excavation Work
16	IS : 4014	Part I & II Code of practice for Steel tubular scaffolding
17	IS : 4081	Safety Code for Blasting and Related Drilling Operations.
18	IS : 4082	Recommendations on staking and storage of construction materials at site

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

<i>Sl.No.</i>	<i>Code No.</i>	<i>Title</i>
19	IS : 4130	<i>Safety Code for Demolition of Buildings – First Revision.</i>
20	IS : 4138	<i>Safety Code Working in Compressed Air-First Revision</i>
21	IS : 4912	<i>Safety requirements for Floor and Wall Openings, Railings and toe Boards –First Revision.</i>
22	IS : 5121	<i>Safety Code for Piling and other Deep Foundations.</i>
23	IS : 5916	<i>Safety Code for Construction involving use of Hot Bituminous Materials.</i>
24	IS : 5983	<i>Specification for Eye Protectors – First Revision.</i>
25	IS : 6922	<i>Structures subject to underground blasts, criteria for safety and design</i>
26	IS : 7205	<i>Safety Code for Erection on Structural Steel Works.</i>
27	IS : 7069	<i>Safety Code for Handling and Storage of Building Materials.</i>
28	IS :7293	<i>Safety Code for Working with Construction Machinery.</i>
29	IS : 7969	<i>Safety code for handling and storage of building material</i>
30	IS : 8758	<i>Recommendation for Fire Precautionary Measures in construction of Temporary Structures and Pandals.</i>
31	IS : 8989	<i>Safety Code for Erection of Concrete Framed Structures</i>
32	IS : 9759	<i>Guidelines for de-watering during construction</i>
33	IS : 11057	<i>Code of practice for Industrial safety nets</i>
34	IS : 13415	<i>Code of Practice on safety for Protective barriers in and around building</i>
35	IS : 13416	<i>Recommendations for preventive measures against hazards at working places</i>

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

General Terms & Conditions

- 01. POST TECHNICAL AUDIT OF WORK AND BILLS:** - BHEL reserves the right to carry out the post-payment Audit and technical examination of the work and final bill including all supporting vouchers, abstracts etc., and enforce recovery of any sum becoming due as a result thereof in the manner provided in the presiding sub-paragraphs. However, no such recovery shall be enforced after three years of passing the final bill.
- 02. 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, Hostile acts of the public enemy Civil Commotion, Epidemics, or Acts of God (Floods, Storm/Cyclone, Hurricane, Earth Quake etc.) then provided notice of happening of any such event is given by either party to other within 7 days from the date of occurrence therefore neither party shall by reason of such event be entitled to terminate this Contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance under the contract shall be resumed as soon as practicable after such event 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 of any such event, claims for extension of time shall be granted for periods considered reasonable by the Executive/Contracts/PPPU subject to prompt notification by the contractor.
- 03. ARBITRATION:** Refer clause 58 of BHEL, General Conditions of Contract
- 04. SIGNING OF CONTRACT:** Each contract document shall be signed by the Contractor with his usual signature. Contract by partnership of Hindu Joint Family firm, may be signed in the FIRM'S name by one of the Partners or the Karta or Manager as the case may be or by any other duly authorised representative followed by the name and designation of the persons so signing. Contracts by a Company shall be signed with the name of the Company by a person authorised in this behalf and a power of attorney or other satisfactory proof showing that the persons signing the Contract documents on behalf of the Company is duly authorised to do so, shall accompany the contract.
- 05. STATUTORY REQUIREMENTS:**
 - (a) All statutory requirements under Minimum Wages Act, 1948, Factories Act 1948, Workmen Compensation Act 1923, Employees Provident Fund and Miscellaneous Provisions Act, 1952, Payment of Gratuity Act 1972, Employee State Insurance Act 1948, Contract Labour (Regulation and Abolition) Act 1970, Payment of Bonus Act 1965, Income Tax Act, GST / SGST / IGST / UTGST Act and all other applicable Acts shall be complied with by the Contractor.
 - (b) Contractor shall comply with all statutory requirements, rules, regulations, notifications in relation to employment of his employees issued from time to time by the concerned authorities.
 - (c) Contractor shall indemnify BHEL against all claims and losses under various Labour Laws, statutes or any civil or criminal law in connection with employees deployed by him.
 - (d) Contractor wherever applicable shall maintain proper records prescribed by the concerned statutory authorities and provide a copy of the same to BHEL.
 - (e) Contractor shall furnish proper returns to the concerned statutory authorities and provide a copy of the same to BHEL.
- 06. REGISTERS & RECORDS:** - The Contractor shall maintain all registers and records in the proper manner and as required by the regulations of the various authorities concerned and indemnify the Employer from the consequences due to any inaccurate or faulty documentation on the part of the Contractor.
- 07. REMOTE TRANSACTIONS:** The Contractor shall agree to and comply with all such terms and conditions as BHEL may prescribe from time to time and shall confirm that all transactions effected by or through facilities for conducting remote transactions including the Internet, World Wide Web, electronic data interchange, call centers, teleservice operations (whether voice, video, data or combination thereof) or by means of electronic, computer, automated machines network or through other means of telecommunication established by BHEL shall constitute legally binding and valid transactions when done.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

08. CHANGE IN CONSTITUTION OF FIRM: *Changes in constitution of firm whenever it is made after submission of application or during currency of the contract, the existing firm has to duly inform the proposed changes to contracting department of BHEL at the appropriate time before the changes in the constitution are made. In case the absence of any such information BHEL is not responsible for the consequences arising out of the absence or suppression of information and the issue / dispute arising out of these changes and the firm is responsible for settling the issue or dispute among themselves (Partners etc.) or with the bankers or with any third party. Under the above circumstances when dispute arises and the firm does not inform the change in the constitution of the firm BHEL may reserve its rights for suspending or terminating the contract.*

09. FRAUD PREVENTION POLICY: *The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL Management about any fraud or suspected fraud as soon as it comes to their notice.*

10. COMMON TERMS AND CONDITIONS FOR WORKS CONTRACT RELEVANT TO SAFETY

- 1. All the Contract employees should be trained on Safety and certified by Safety/BHEL. New employees should undergo Safety Training before take up the work, without Safety Training no contract person is allowed to do any work.*
- 2. Use of cell phones and other mobile electronic devices (including hands-free devices) in the work spot and during the operation of a vehicle in the BHEL premises is prohibited.*
- 3. Contract employees working on BHEL premises must wear appropriate personal protective equipment. Strict adherence to all required Personal Protective Equipment (Helmet, Safety Shoes and Goggles) are mandatory, specific PPE requirements will be based on job type or tasks performed.*
- 4. Excessively loose-clothing, dhoti/Lungi is prohibited especially around rotating or moving equipment.*
- 5. The contractors' work area should be kept clean and orderly, free of clutter and trash, so that work may proceed in a safe and orderly manner. Tools should be safely positioned during use and promptly put away when no longer required.*
- 6. Fire-fighting, emergency shutdown devices, and life-saving equipment, should not be blocked by the contractor/employees and access to the path to this equipment should be maintained at all times.*
- 7. Only approved equipment should be used in locations where flammable mixtures are present. A Hot Work Permit is required when open flames, or electric arcs are in the work area and while handling flammable materials.*
- 8. Smoking is not allowed in work area.*
- 9. BHEL operate under a comprehensive Emergency Response Plan. Contractors should be aware of the site Emergency Response Plan and communicate that plan to all their employees.*
- 10. It is recommended that the contractor should know & display the emergency phone numbers like Fire, Ambulance, Safety, Security etc. at their work area.*
- 11. It is the responsibility of the contractor to understand and use the appropriate Work Permits and to verify any permit requirements at the location. Contractor must make necessary arrangements with their Representative to acquire appropriate authorization to perform those operations at the site.*

11. SAFETY CONDITIONS: Covered Separately Under "GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION"

12. SUSPENSION OF BUSINESS DEALINGS WITH SUPPLIERS /CONTRACTORS:

Penal action can be initiated on the suppliers / Contractors in line with extant 'Guidelines for Suspension of Business Dealings with Suppliers/ Contractors. The abridged version of extant 'Guidelines for suspension of

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

business dealings with suppliers/ contractors' has been uploaded on <http://www.bhel.com> on "supplier registration page"

13. GENERAL

The vehicles should not be moved directly inside the production building in case the materials are to be unloaded there. But the vehicle should be parked outside the building and the driver should ascertain the passage as well as the unloading points with the help of shop officials. This will avoid the congestion of blocking of traffic in the gangway.

14. NOTICE OF ACCIDENTS:

1) Notwithstanding anything contrary to this, in the event of accident the contractor shall be required to fill injury report and submit the Engineer in charge immediately and ensure the compliances of ESI / Workmen's compensation Act, Factories Act and Rules made thereunder. He shall also maintain a register of accident as per the Act.

2) The Contractor shall get the contract labour engaged by him insured under Workmen's Compensation policy from General Insurance Corporation of India before actually starting the work of contract. The insurance coverage should be for the entire period of Contract. The Contract shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in conjunction with the provisions of ESI Act)

15. Government Law's Covering Under This Contract: *The Contractor shall in respect of Personnel employed by him either directly or through sub-Contractors, comply with or cause to be complied with following statutory provisions and rules and in regard to all matters provided therein.*

The Contract Labour (Regulation & Abolition) Act 1970 and the related Rules.

- a. The minimum wages Act 1948 and the related rules*
- b. The payment of wages Act 1936 and the related rules.*
- c. The Factories Act 1948 and related Tamil Nadu Rules.*
- d. The Employees' Provident Fund & Miscellaneous provisions Act 1952.*
- e. The Employees State Insurance Act 1948.*
- f. Workmen Compensation Act 1923*
- g. Payment of Bonus Act 1965*
- h. Maternity Benefit Act, 1961*
- i. Payment of Gratuity Act, 1972*
- j. Inter-State Migrant Workmen (Regulation of Employment & Conditions of Service) Act, 1979*
- k. Equal Remuneration Act, 1976*
- l. Industrial Employment (Standing Order) Act, 1960 (In case of engaging 100 or more personnel)*
- m. The Industrial Disputes Act 1947*

And any other law, or modifications to the above or to the rules made there under from time to time.

Place
Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

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)) / Udyog Aadhar Memorandum _____ 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

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

CERTIFICATE OF COMPLIANCE

To

Senior Manager / Contracts
Power Plant Piping Unit,
BHEL - Thirumayam-622 507.

Sir,

We have carefully read the tender specifications connected with the above tender and have understood the technical requirements and conditions to the above tender which consists of

1. Pre-Qualification criteria,
2. Scope of work,
3. Commercial Terms & Conditions,
4. Conditions Related to The Welfare of Labors
5. General Terms and Conditions.
6. Technical Bid
7. RTGS/NEFT Format
8. PRICE BID Format

We agree to carry out the contract tendered at the rates as offered by us in the Price Bid (Rate Schedules) submitted by us and in accordance to the terms and conditions of the subject tender.

Declaration:

If the contract is awarded to us the prices shall be kept firm till the completion of contract.

- i. I/We (including all partners) certify that I/We have read the Terms and conditions and shall abide by them.
- ii. I/We certify that the information given above is true to the best of our knowledge. I/We also understand that if any of the information is found wrong, I/We am/are liable to be debarred.
- iii. I/We certify that I/We will not get myself / ourselves registered as contractor(s) in BHEL under more than one name.

Place
Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

GENERAL DETAILS:

01	Name and full address of the Company / Firm	
02	Name of contact Person with Designation	
03	Contact Details:	
	Landline No.	
	Mobile No.	
	email ID:	
04	Local Office Address with Contact person, Phone No., Mobile No., email ID, Fax No. (If any)	
05	Vendor code allotted by BHEL if any	

i) I/We hereby declare that there is no case or charge under investigation, enquiry or trial, or any conviction in a court of law.

ii) I/We are not suspended, blacklisted or banned by any organizations /Govt. on any grounds as on date.

Place
Date

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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

RTGS/NEFT FORM

To
THE PURCHASE/CONTRACT EXECUTING AGENCY/BHEL

ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

- 01 Name & Address of the
Supplier / Sub-contractor
- 02 VENDOR CODE assigned by
BHEL
- 03 NAME & ADDRESS OF THE
BANK
- 04 NAME OF THE BRANCH
- 05 BRANCH CODE
- 06 MICR CODE
- 07 ACCOUNT NUMBER
- 08 TYPE OF ACCOUNT
- 09 BENEFICIARY'S NAME
- 10 IFSC CODE OF THE BRANCH
- 11 EMAIL ID
- 12 TELEPHONE/MOBILE NO.

Details of Bank Account:

CURRENT A/C / OD / CASH CREDIT

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED by the National Electronic Funds Transfer and / or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited. I / We also agree to bear the applicable Bank Charges for the above mode of transfer. **Original cancelled cheque leaf is sent herewith (or) Scanned copy of cancelled cheque leaf sent through e-mail of the above account.**

AUTHORISED SIGNATORY WITH NAME SEAL

Banker's Certification

We confirm that we are enabled for receiving RTGS and NEFT credits and we further confirm that the account number of _____ (name of account holder), the signature of the authorized signatory and the MICR and IFSC codes of our Branch mentioned above are correct.

PLACE:
DATE:
Name Seal

with Membership No :
(Telephone / Mobile No)

(Manager / Officer's)
Signature Under Bank stamp and

Forwarded to Accounts Dept.
We confirm the above details are verified with the records available with us.
Signature of the BHEL Executive with Name Seal (Operating the Contract/Services)

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

	<i>Dissimilar / irrelevant works will not be considered for eligibility criteria. The works executed in the own name of the tenderer only will be considered for eligibility criteria.</i>	
06	<i>Financial turn-over – Average Annual financial turnover of Rs 29.48 lakhs during last 3 Financial years ending 31.03.2017 or 31.03.2018 (income tax return, P&L account and balance sheet certified by auditor for 3 consecutive financial years to be attached.)</i>	<i>(Proof attached / proof not attached)</i>
07	<i>There should be no case or charge under investigation, enquiry or trial against the bidder or any conviction in a court of law nor should be the bidder has been suspended, blacklisted or banned by any organizations /Govt. on any grounds. Self-declaration of the above effect should be submitted.</i>	<i>(Declared/ Not Declared) (As per General Details)</i>
08	<i>On award of contract, the successful bidder shall comply with all the statutory requirements of PF and ESI rules & regulations for their workmen deputed for this work.</i>	<i>Accepted / Not accepted</i>
09	<i>Willingness to participate in Reverse Auction(RA)</i>	<i>Accepted / Not accepted</i>

NOTE:

- (1) Only those bidders, who are meeting all the above qualifying criteria, will be considered for further evaluation and others will be summarily rejected.*
- (2) All supporting documents are to be signed & stamped in each page by the bidder for further evaluation.*

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

ANNEXURE – 'X'

Illustration for arriving the rates for individual items of BoQ by BHEL for the total amount quoted by the vendor

Contractor shall only quote the total amount for the work and not the individual rates for every item of BoQ. The amount quoted shall include all taxes except GST. Applicable GST would be paid extra.

The rates for the individual items of BoQ would be arrived by BHEL as follows,.

In this illustration, assume there are 5 items in the BoQ. The respective quantity and Percentage allocation is specified as below.

Assuming the amount quoted by a vendor is 10,00,000/- (Ten lakhs) for the entire package for the given quantity below,

SLNO	ITEM	Quantity	% Allocation
1	1	50	15%
2	2	33	20%
3	3	27	25%
4	4	21	30%
5	5	18	10%

Then, For item no 1,

Amount allocated for item 1 would be = $15\% \times 10,00,000$ (since % allocation is 15% for this item)
= Rs 1,50,000 /-

Hence the rate for item 1 would be = $1,50,000 / 50 = \text{Rs } 3,000/-$

In the same manner the rates for all other items would be arrived as follows,

Item 2= Rs 6,060.60

Item 3 =Rs 9,259.26

Item 4 =Rs 14,285.71

Item 5=Rs 5,555.55

The rates will be rounded off to nearest two decimal places only, so as to match the total amount or closest to the total amount, quoted by the vendor. Rates so arrived by BHEL shall be final and binding on the contractor.

Place
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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

UNPRICED BILL OF QUANTITY

ANNEXURE - BOQ

Note: Please go through the Illustration in Annexure 'X' for arriving the rates for individual items of BoQ by BHEL for the total amount quoted by the bidder.

Name of Work: Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).				
SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
1	Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. All kinds of soil except rock	CUM	3250	4.464
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. Ordinary rock	CUM	100	0.220
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. Hard rock (blasting prohibited)	CUM	100	0.449
4	Supply and spreading/filling with stone dust complying with standard specifications.	CUM	250	0.684

Place
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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Name of Work: Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).				
SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
5	<i>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. 1:4:8 with graded stone aggregate 40 mm nominal size and Sand/ approved M-Sand as fine aggregate, all as per standard specification and as per instruction of Engineer in charge</i>	CUM	175	4.687
6	<i>Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm and downgraded hard broken granite stone jelly and Sand/ approved M-Sand as fine aggregate for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications and as per instruction of Engineer in charge</i>	CUM	285	7.830
7	<i>Floor finish with 40 mm thick granolithick flooring over the concrete base while it is wet for proper bonding, the bottom 25 mm thick consisting of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and the top 15 mm finished with hardening compound of proportion one part of hardonate (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.</i>	SQM	1050	4.874
8	<i>Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforcd cement concrete of specified grade for structrural elements using 10 to 20 mm hard broken granite stone jelly and Sand/ approved M-Sand as fine aggregate, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.</i>	CUM	45	1.536

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Bharat Heavy Electricals Limited

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Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Name of Work: Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).				
SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
9	<i>Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly and Sand/ approved M-Sand as fine aggregate, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-25 Grade reinforced cement concrete and as per instruction of Engineer in charge . All work in foundation, basement and upto Floor V level.</i>	CUM	115	3.936
10	<i>Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly and Sand/ approved M-Sand as fine aggregate, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-35 Grade reinforced cement concrete and as per instruction of Engineer in charge . All work in foundation, basement and upto Floor V level.</i>	CUM	250	8.571
11	<i>Grouting the H.D bolts, underneath the base plates etc., after alignment with wet cement grout (1:1), all as per standard specifications. Rate includes cleaning the sleeves/pockets, tools and plants required for the work etc., complete except cement which will be supplied by BHEL at stores at free of cost.</i>	CUM	1.5	0.262
12	<i>Extra for providing and mixing water proofing material 'Impermo' or equivalent in cement concrete work at 1 Kg per 50 Kg of cement.</i>	KG	1500	0.688
13	<i>Random rubble masonry in foundation and basement in the mix given below including simultaneous flush pointing using Sand/ approved M-Sand as fine aggregate, all as per standard specifications. Cement mortar 1:5</i>	CUM	160	3.782
14	<i>Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift up to 1.5 m etc. complete.</i>	CUM	3000	2.585

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
15	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. 0-1KM	CUM	250	0.311
16	Providing and fixing RCC precast perforated lawn drain cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 10 mm nominal size and Sand/ approved M-Sand as fine aggregate including moulding, shuttering, finishing, carrying and fixing in position etc., complete and as per instruction of Engineer in charge. Rate excludes reinforcement steel & fabrication charges.75 mm thick	SQM	100	0.320
17	Damp proof course with cement mortar 1:3, 20 mm thick mixed with water proofing compound (Accoproof or Impermo or equivalent) at 1 Kg per 50 Kg of cement for water facing surfaces etc. complete., all as per standard specifications.	SQM	75	0.143
18	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	80	6.499
19	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. Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	SQM	1250	2.283
20	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. Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	SQM	250	0.796
21	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. Pockets or holes in foundations for holding down bolts.	SQM	60	0.445

Place
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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
22	<i>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. Suspended floors, roofs, landings, balconies, access platform and sunshades.</i>	SQM	22	0.078
23	<i>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. Lintels, beams, plinth beams, girders, bressumers and cantilevers</i>	SQM	130	0.360
24	<i>Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 40 or Pidigrout 10M or Flogrout 60 or Conbextra GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.</i>	CUM	2.2	1.285
25	<i>Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc complete.10- 14 mm diameter</i>	EACH	100	0.071
26	<i>Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints.</i>	SQM	100	0.448
27	<i>Providing hollow block masonry in cement mortar 1:5 using hollow block of sizes 400 x 200 x 200 mm / 400 x 150 x 200 mm / 400 x 100 x 200 mm or thereabouts of approved good quality including simultaneous flush pointing, all as per standard specification. Rate includes cost of hollow blocks, conveying, leading, loading, unloading, labour, incidentals etc., complete. Upto 4.50 m height from plinth level.</i>	CUM	35	1.189

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Dt. 18.06.2018

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
28	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in foundation and plinth in: Cement mortar 1:5	CUM	95	4.025
29	Brick work with mechanized autoclaved fly ash lime bricks made up of fly ash, lime, gypsum and coarse sand / stone dust to size 230 mm x 110 mm x 70 mm or thereabouts confirming to IS 12894 of class designation 50 (min) in foundation, plinth and superstructure above plinth up to floor V level as per standard specifications and instructions of Engineer in charge In cement mortar 1:5	CUM	95	4.482
30	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes.	CUM	95	0.281
31	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick	SQM	1250	1.269
32	Providing precast cement concrete Jali 1:2:4 using graded stone aggregate 6 mm nominal size with suitable reinforcement including centring and shuttering, roughening, cleaning, fixing and finishing in cement mortar 1:3 etc.complete. Rate excludes reinforcement steel & fabrication charges. 50 mm thick	SQM	250	1.471
33	Painting with exterior emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. Three coats (One coat of Primer of approved brand with two coats of Paint)	SQM	1400	1.143
34	Distempering using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications. Three coats (A priming coat with approved primer and two coats of distempering).	SQM	85	0.065

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
35	<i>White washing on surfaces using Janathacem or equivalent material to give an even shade including cleaning, brushing of walls and preparing surfaces in accordance with standard specifications. Rate includes cost of all materials, labour, curing etc., complete.</i>	SQM	25	0.003
36	<i>Providing weathering course on top of roof slab with 20 mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thickness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.</i>	CUM	0.5	0.017
37	<i>Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick and of approved brand & size, set in cement mortar 1:3 with an admixture of crude oil at 10% by weight of cement, 12 mm thick bedding layer including pointing the tiles with the same oiled mortar etc., complete, all as per standard specifications.</i>	SQM	25	0.102
38	<i>Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer), of approved make, in all colours, shades as approved by Engineer-in- Charge, in skirting, risers of steps and dados, over 12 mm thick bed of cement mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3 kg per sqm, including pointing in white cement mixed with pigment of matching shade complete</i>	SQM	150	1.102
39	<i>Providing and laying Ceramic tiles of required size and minimum thickness of 6 mm in flooring, treads of steps and landings laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 10 mm thick cement mortar 1:3, finished with flush pointing in white cement etc.complete, all as per standard specifications. For First Quality Design Ceramic tile of Size 305mm X 305mm X 6mm of all Colours</i>	SQM	60	0.796

Place
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Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

Name of Work: Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).				
SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
40	<i>Manufacturing, supplying and fixing in position of Powder coated aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in-charge. The around vertical and horizontal outer frame shall be with 4" x 1 1/4" x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 3/4" x 1 3/4" x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of of 1 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminate (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete</i>	SQM	5	0.192
41	<i>Providing and fixing powder coated aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x 1.20 mm (wt 0.656 kg /m) for outer frame , 38 x 17 x 1.20 mm (0.41 kg / m) for shutter box and 38 x 17 x 1.20 mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.</i>	SQM	10	0.324
42	<i>Providing polyester sun control film of approved brand (GARWARE or equivalent) and shade to glazed panels in doors / windows / ventilators / partitions etc.with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate includes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete. Non reflective Type - Premium Grade with Scratch Resisting Coating</i>	SQM	15	0.166

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
43	<i>Collection from BHEL stores and transporting the raw structural steel sections to the contractor's site fabrication shop, fabrication of steel work including all materials going into the process of fabrication and forming an integral part of the steel work together with all shop welding including using low hydrogen electrode wherever necessary, all as per drawings and standard specifications. Rate includes delivery of fabricated steel work at erection site ready for erection, including preparation and supply of drawing office despatch list for BHEL's approval, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes raw structural steel sections which will be supplied by BHEL at stores at free of cost.</i>	MT	35	4.728
44	<i>Painting one priming coat with approved primer over structural steel works in roof structures, columns etc., including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications. Red oxide primer</i>	MT	35	0.215
45	<i>Painting (excluding priming coat) on structural steel works in roof structures, columns etc.with synthetic enamel paint of approved brand and shade, brushing to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, scaffolding charges etc.complete. All as per standard specifications. Two coats</i>	MT	35	0.604
46	<i>Carrying from stacks at erection site to erection positions and erection of fabricated steel work including all handling, conveying, assembling, hoisting, erecting in position and site welding and or bolting, alignment of structures, all as per drawings and standard specifications. Rate includes bolts & nuts, hire for welding tools and plants, labour etc., but excluding cost of fabricated components. If required, power will be given free of cost by BHEL. Weight of fasteners will not be accounted for payment.</i>	MT	35	2.548

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
47	<i>Collection from BHEL stores and transporting of rails CR 80/R 45 etc to the contractor's site fabrication shop, straightening the rails using Gim screw or any other equipments, preparation of edge for welding the rail joints as per drawing and erecting in position at all elevations (i.e, in floor or over the girders) using cup type rail clamps with fittings. The scope includes rail alignment after erection, fixing in position, welding the joints by using approved electrode (E 11018 for CR 80 & E7018 for R 45 rails), pre heating & post heating the joints, grinding the joints neatly etc as per drawings and instruction of Engineer in charge. Rate shall include cost of providing one coat of red oxide primer as per IS specification and supply of DODL's for BHEL approval in compact disc with two copies of print outs. Quoted rate shall also include cost of consumables, hire charges for tools and plants, labour and incidentals etc complete but exclude cost of rails which will be supplied by BHEL at free of cost.</i>	MT	5	0.628
48	<i>Supplying at site of work , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., as per technical specifications given in note below for side sheeting at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every valleys, etc., complete .All as per drawings, manufacturers specifications and instructions of Engineer-in-charge .Rate includes cost of all materials like colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, self tapping / self drilling screws with EPDM washers at every valleys, etc., and labour charges for fixing, hire charges for tools and plants like drilling machines, providing lifeline and other provisions for safety, and all other incidental charges etc., complete. The payment will be made for the actual laid area only. About 90% area of the Aluminium zinc alloy coated high tensile steel sheets shall be colour coated with Light Blue RAL 5012 and 10% of the covered area is of with off white. All ridge pieces and barge boards are of white.</i>	SQM	90	0.575

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Tender No: PPPU: WC:18:004

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
49	<i>Supplying at site of work , hoisting and fixing in position of 0.47 to 0.50mm thick colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, North light curves, end curves, etc., as per technical specifications given in note below for roofing at all heights with necessary xylon coated self tapping / self drilling screws with EPDM washers at every ribs etc., complete. All as per drawings, manufacturers specifications and instructions of Engineer-in-charge .Rate includes cost of all materials like colour coated Aluminium zinc alloy coated high tensile steel rib profile sheets with accessories such as ridge pieces, barge boards, curves, etc., wherever required self tapping / self drilling screws with EPDM washers at every ribs etc., and labour charges for fixing, hire charges for tools and plants like drilling machines, providing lifeline and other provisions for safety, and all other incidental charges etc., complete. The payment will be made for the actual laid area only. Note: (1)The Aluminium zinc alloy coated high tensile steel sheets and specials shall be 0.47 to 0.50mm thick (TCT) (Aluminium around 55%, Zinc around 43%) alloy coated high tensile steel (Yield strength 550 MPA) colour coated rib profile sheets as per ASTM A792M, coating standard as per AS 1397-1933 Conforming to AZM 150 (Min Coating mass of 150 gsm) having cover width of 1000 plus or minus 10mm and over all width of 1060mm of any length to suit site conditions (2) About 90% area of the Aluminium zinc alloy coated high tensile steelsheets shall be colour coated with Light Blue RAL 5012 and 10% of thecovered area is of with off white. All ridge pieces and barge boards are ofwhite. (3) The Aluminium zinc alloy coated high tensile steel sheets shall be Pre- Primed with a Primer of 5µm and finished with a final paint coat of 17-20 µm on top surface. A single Backing coat of 7-10µm should be applied on reverse side</i>	SQM	150	0.917
50	<i>Supply and fixing corrugated fibre glass reinforced polyester translucent roof light sheets of all colours including white of following thickness to match with the existing A.C. sheet roofing/ Galvalume sheet roofing including cost of G.I. bolts, nuts, washers and bitumen washers, self tapping screws etc., complete. Payment will be based on the laid area. FRP Sheet 2 mm thick</i>	SQM	10	0.086

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
51	<i>Supplying roof extractors (Turbo Air Ventilators) of dia 600mm or thereabouts, fixing in position on AC / Aluminium zinc alloy coated high tensile steel sheet roofs at all heights with necessary screws,, bolts etc., and finishing to match with existing roof. Rate to include cost of all labour charges for fixing the roof extractors with necessary cutting of sheets to the required size ,drilling to suit the screws/ bolts, and finishing to match the existing profile including cost of roof extractors / ventilators. All as per manufacturers specifications and as directed by the Engineer in charge</i>	<i>EACH</i>	<i>6</i>	<i>0.577</i>
52	<i>Providing and placing in position PVC water stops serrated with central bulb, 225 mm wide & 8-11 mm thick for construction / expansion joints between two RCC members and fixed to the reinforcement with binding wire before pouring concrete etc. complete.</i>	<i>RM</i>	<i>210</i>	<i>1.059</i>
53	<i>Fabrication and fixing in position of M.S inserts out of M.S plates, flats, rounds, angles etc., including necessary lugs made of rounds or flats, sizing and cutting to required lengths, threading, bolting and welding as required and placing the same in position in both plain and reinforced cement concretmembers, including adjusting the shuttering if necessary, tying and holding to correct level and line. Rate includes cost of all materials, labour etc., complete but excluding raw steel sections which will be supplied by BHEL at Stores at free of cost.</i>	<i>KG</i>	<i>4250</i>	<i>1.309</i>
54	<i>Conveying from BHEL stores to site of work cutting to size and fixing in position of 75 x 75 x 6 mm or other size M.S angles in required lengths for forming the rebates in cable trench (for fixing the cable trench cover slabs) including welding in position of dowel bars to the angles and embedding the angle iron frame in the flooring concrete in proper line and level, all as per drawings and instructions of Engineer-in-charge. Rate includes loading, unloading, handling, welding and other incidental charges, preparing and supplying of DODL's for approval etc. complete, but excluding cost of M.S angles and dowel bars which will be supplied by BHEL at Stores at free of cost.</i>	<i>MT</i>	<i>4</i>	<i>0.351</i>
55	<i>Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick work in cement mortar</i>	<i>CUM</i>	<i>45</i>	<i>0.261</i>

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
56	<i>Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC louvers / RCC jally</i>	SQM	20	0.033
57	<i>Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. RCC works including stacking of steel bars by manual/mechanical means.</i>	CUM	20	0.200
58	<i>Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Plain Cement Concrete.</i>	CUM	25	0.106
59	<i>Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc.</i>	MT	10	0.169

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
60	<i>Dismantling / removing / demolishing as the case may be of the following by manually/ mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. G.I / Aluminium sheets / Aluminium Zinc alloy coated sheets from roofs and side cladding including ridges, valleys, gutters etc.</i>	SQM	100	0.054
61	<i>Providing holding down bolts of required sizes with nuts, washers etc. and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate includes cost of steel materials, bolts, nuts, washers, fabrication and machining charges, fixing, all labour etc. complete. Bolts including nuts & washers etc.complete in all sizes & lengths.</i>	KG	650	0.604
62	<i>Conveying all types & sizes of holding down bolts, nuts, washers etc. from BHEL Stores to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.</i>	KG	1250	0.321
63	<i>Supply of Mild Steel sections such as channels, angles, T sections, flats, sheets, square bars, rods, tubes etc.at site of work and fabrication of steel work for gates, Y angles, purlins, trusses, any other small structures etc., all as per required design & drawing and erecting/fixing the same in proper alignment/ position, level including site welding and or bolting/rivetting with necessary accessories such as keelmulai, keelpattai, hinges, tower bolts, aldrops etc.complete. Rate also includes providing two coats of synthetic enamel paint over one coat of red oxide primer. Payment will be made for the entire finished item of work.</i>	MT	1.5	1.185

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
64	<i>Precasting and fixing in position of RCC cable trench cover slabs of following thickness in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost. 69mm thick slab SQM 543.65</i>	SQM	125	0.742
65	<i>Providing and fixing PVC pipes of 4 K.G / Sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials likeshoe, bend, tee, tee with door etc.PVC Pipe 160 mm OD</i>	R.M	24	0.096
66	<i>Manufacture, supply and fixing best wooden door with frames and shutters comprising of fully panelled shutter of 35 mm thick and frame of size 95 x 70 mm including cost of holdfasts but excluding cost of furniture fittings & fitting charges.</i>	SQM	5.1	0.268
67	<i>Providing best wooden frames for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete. In Teak wood</i>	CUM	0.15	0.179
68	<i>Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings. In Teak wood (double leaved shutter)</i>	SQM	5.1	0.183
69	<i>Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 100 mm dia nominal bore.</i>	RM	60	0.547
70	<i>Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 100 mm nominal bore</i>	EACH	1	0.054

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SI No	DESCRIPTION OF WORK	Unit	Estimated Qty	% Allocation
71	<i>Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls) 80 mm dia nominal bore.</i>	RM	20	0.148
72	<i>Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 80 mm nominal bore</i>	EACH	3	0.089
73	<i>Fabrication and fixing in position of M.S frames for cable trench cover slabs in required sizes using M.S angles, plates, flats etc., which will be supplied by BHEL at Stores at free of cost, all as per drawings and instructions of Engineer-in-charge. Rate includes conveyance of raw materials from BHEL stores to contractors fabrication shop, fabrication charges including cutting, welding, preparing and supplying DODL's for BHEL's approval, supply of fabricated frames at site of work, fixing in proper position etc., complete.</i>	MT	5.25	0.433
74	<i>Providing and laying, spreading and compacting graded stone aggregates to Wet Mix Macadam of required thickness and specification including premixing the materials with water at OMC in mechanical mix plant carriage of mixed material by tipper to site laying in uniform layers with pavers in Sub Base/ Base course on well prepared surface and compacting with vibratory roller to acheive the desired density including cost of material, labour charges, rentals for machinery, fuel and all other incidental charges etc., complete as per clause 406 of MORTH Rev-5</i>	CUM	400	6.497
				100.00 %

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PRICE BID FORMAT

ANNEXURE - 2

Sl No	Item Description (A)	Tentative Value of Work – Excluding GST (Rs)(B)	Below (100-X) % (or) At par (100%) (or) Above (100+X) % for the tentative value	
			% In Figures (C)	In Words (D)
1	Extension of production Shop Floor and Construction of allied buildings and equipment foundation (Civil Works) for the proposed AUSC Bay at PPPU - BHEL near Thirumayam in Pudukkottai (Dt) (Tamilnadu).	Rs. 98,26,748/-		
2	Applicable GST %	-		

- The tenderer has to quote most competitive rate in Percentage Below (100-X) % (or) At par (100%) (or) Above (100+X) % for the tentative value in Price bid and the bidder with the lowest quoted percentage will be considered L1.
- Applicable rate of GST in % should be mentioned in Price Bid format.

Eg:

Case 1: Below the Tentative Value

If the tenderer wishes to quote 1.35% below the estimate value, then 98.65% should be written under Column (C) and “Ninety-eight point six five percent only” in column (D)

Case 2: At Par to the Tentative Value

If the tenderer wishes to quote at par to the estimate value, then “100.00%” should be written under Column (C) and “Hundred percent only” in column (D)

Case 3: Above the Tentative Value

If the tenderer wishes to quote 1.25% above the estimate value, then “101.25%” should be written under Column (C) and “One Hundred and one point two five percent only” in column (D)

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NOTE

01. Percentage should be quoted in both figures and words and are to be identical. If not, the percentage in the words will be considered as final and the same shall be valid and binding on the contractor.

(a) If there is such discrepancy in an offer, the same will be conveyed to the bidder with target date up-to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

(b) Percentage upto a maximum of 2 decimal points only is allowed. If the contractor quotes beyond this, then rounding off to the lower of the second digit after decimal will be followed and the value thus arrived is binding on the contractor. i.e. 100.119% will be taken as 100.11% and 100.111% will also be taken as 100.11%

02. The percentage should be quoted inclusive of any taxes and duties levied or to be levied both by Central and State Government authorities from time to time, EXCEPT GST. GST will be paid extra on production of documentary evidence.

03. Quotation should be valid for a period of three months from the date of Tender opening.

04. If there is a tie in quoted L1 amount, then ranking will be decided based on Lot system.

05. The amount quoted shall remain firm and valid during the entire period of contract (including extended period if any) and no extra payment will be reimbursed to the contractor by BHEL. Any increase of DA/ wages to the contract labor shall be absorbed by the contractor themselves during the period of contract.

06. The signature at the bottom of the rate schedule confirms that the Tenderer had read and accepted all the Terms and conditions in Tender Schedule, also amount quoted with inclusive of any taxes and duties levied and excluding GST etc. has been considered by the tenderer for the total contract period (including extended period if any) while quoting the above rates.

07. No other pre conditions along with your offer will be entertained by BHEL

08. The bidder shall quote only the lowest possible total amount that can be offered for the intended quantity.

09. The contractor while quoting shall take care of units specified against item in bill of quantities.

Important: Estimated qty. indicated above will be used for arriving at total cost for evaluation of tender but should not be taken as firm commitment.

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Tender Notice

Dt. 18.06.2018

‘SCHEDULE B’

1. The following materials will be issued FREE of cost to contractor at BHEL Stores / Stock yard if specified in the BOQ and specifications.

SI.No.	DESCRIPTION	PLACE OF ISSUE
1	Cement	BHEL STORES or Stock yard
2	M.S Rounds, C.T.D Bars & Structural Steel, rails	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. 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.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



Bharat Heavy Electricals Limited

(A Govt. of India Undertaking)

Power Plant Piping Unit, Thirumayam – 622 507, Tamil Nadu

Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

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	NIL	

SCHEDULE 'E'

LEAD STATEMENT

Sl.No	Name of Material	Name of Source	Lead Particulars
1	Cement		NOT APPLICABLE
2	M.S Rounds, C.T.D Bars & Structural Steel		

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

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)



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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT)

BANK GUARANTEE FORMAT FOR SECURITY DEPOSIT

1. THIS DEED OF GUARANTEE made this..... day of(month).....(year) by(Bank 's full address) in favour of M/s Bharat Heavy Electricals Limited, Unit : Thirumayam – 622507, having its Registered Head Office at BHEL House, Siri Fort , New Delhi 110049.

2. WHEREAS M/s Bharat Heavy Electricals Limited (hereinafter called the “COMPANY”) have placed work order(s) which are pending as on date and also proposes to place further work order(s)) (hereinafter called the “CONTRACT”) upto..... (Date) for fabrications/ for machining/supply of pressure and non – pressure parts with M/s.....(CONTRACTOR’S Full address) (hereinafter called the “CONTRACTOR /SUPPLIER”) and as per the terms of the contract, the company has issued /proposes to issue raw materials to the contractor to enable them to complete the work.

3.AND WHEREAS one of the conditions for placing such contract(s) is that the Contractor/ Supplier shall provide the Company a Bank Guarantee for Rs.in lieu of cash and towards the security deposit for the raw materials supplied and to be supplied, in pursuance of the contract(s) already placed but pending as on date and the contract(s) to be placed from time to time upto (Date) and also for the satisfactory performance and completion of work/supply as per the terms and conditions of the said contract(s).

4.AND WHEREAS the Contractor/ Supplier..... approached the (Bank) and at their request and in consideration of the arrangement arrived at between the said Contractor / Supplier and the said Bank,

5. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) ‘failure to perform’ the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs. _____.

6. We..... (Bank) , further assure that the Contractor/ Supplier shall be responsible for the safe custody and protection of the raw materials that have been supplied/and to be supplied by BHEL under the contract(s) already placed but pending as on date and to be placed up to(date) against all risks till they are delivered back as finished products to BHEL as per the terms and conditions of the Contract or as they may direct and until such time, the Contractor/ Supplier shall hold the raw materials in trust for BHEL and shall not alienate the same in any manner whatsoever by way of sale or mortgage or charge or hypothecation etc. in favor of anyone else including the bank herein or any other banks /financial institutions etc.

Place
Date

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

7. The raw materials shall always remain the property of BHEL and the Bank shall indemnify BHEL against the loss, damage or deterioration whatsoever in respect of the said raw materials while in the possession of the Contractor/Supplier. The raw materials of BHEL shall always be open for inspection by any Officer authorised by BHEL. The liability under this Guarantee is a continuing one covering all contracts already placed but pending as on date and to be placed up to.....(date) and should any loss or damage occur on account of the breach of the terms and conditions of the said contract(s) by the Contractor/Supplier or should any surplus raw materials become due to the Company under the Contract(s) and remains undelivered by the Company, the Bank shall indemnify the Company for the loss /damage for the value of raw materials for Rs...../- (RupeesOnly) and this is without prejudice to any other remedies which may be otherwise available to the Company by deduction from any sum due or any sum which at any time hereinafter become due from the Contractor/Supplier under this or any other Contract(s).

7. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

8. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____ Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

9. Unless a demand or claim under this guarantee is made on us in writing on or before the _____ we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

10. For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Acknowledgement Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

11. We(indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company

Place
Date

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Tender No: PPPU: WC:18:004

Tender Notice

Dt. 18.06.2018

to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would but for this provision have effect of not so relieving us.

11. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

12. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealized.

13. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirappalli.

14. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the the guarantor.

15. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the _____ day _____ month of 20XX .

Bank Phone No.

Bank e-mail ID

Bank FAX No

The Bank Guarantee bonds (BG) are to be submitted on non-judicial stamp paper of Rs. 100/- and should be only from any one of the below mentioned Banks in India.

Place
Date

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LIST OF CONSORTIUM BANKS IN INDIA

List of Consortium Bank			
	Nationalised Bank		Nationalised Bank
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign bank
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private banks
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

- (1) It should be typed in the Rs. 100 value of stamp paper.
- (2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.
- (3) It should be submitted with bank covering letter with sign and seal of the bank official.

Place
Date

Signature of the Bidder
(NAME & ADDRESS WITH SEAL)