

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

**TENDER DOCUMENT (PRICE BID)**

**Name of work** : Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.

**Value of work** : Rs. 384.93 Lakh

**Tender Notice No.** : 06 / 12-13

**Tender Schedule No.** : 11 / 12-13

**Period of Contract** : 12 Months

**Issued to** :

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

**CIVIL ENGINEERING DEPARTMENT (FACTORY)**

BHE: AGM: CP&P: F&T: 02/67:

February 14, 2013

To

The Tenderer

Dear Sirs,

Sub: **Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy. – reg.**

Ref: 1. Tender Notice No. 06 / 12-13  
2. Tender Schedule No. 11 / 12-13

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Please find enclosed / attached non-transferable tender document containing I) Qualification bid consisting of Preamble, Specifications, General Conditions of Contract, Norms for Qualification and Qualification Proforma ii) Price bid consisting of Bill of Quantities to offer your most competitive rates for all the items of Bill of Quantities attached in the Price Bid.

**Tender for the work should be submitted in a sealed cover consisting of three inner sealed covers such as I) EMD cover ii) Qualification bid cover & iii) Price bid cover, all superscribing the name of work, tender schedule number etc.**

- 1) **EMD cover shall contain requisite EMD in the form of DD.** Tenderers who had already remitted one time EMD should furnish the details of cash receipt No. \_\_\_\_\_ dt. \_\_\_\_\_, on the top of EMD cover. Tender without EMD / one time EMD reference will be summarily rejected and the qualification bid & price bid shall not be considered.

In case of tender documents downloaded from website, tender shall accompany the tender cost of Rs.750/- in the form of Demand Draft (separate) in addition to the EMD amount in the form of Demand Draft.

All Demand Draft shall be drawn in favour of **BHEL, Trichy** payable at Tiruchirappalli.

- 2) Qualification bid cover shall contain duly filled in qualification bid document signed by the tenderer in all the pages with documentary evidences for pre-qualification such as experience, value of work executed in the similar nature of work, etc. Any bid without proper documentary evidence for pre-qualification shall not be considered for further evaluation.

- 3) The Price Bid cover shall contain price bid document duly filled in and signed by the tenderer in all the pages. **The tenderer has to quote most competitive rates for all the items in the Bill of Quantities from page No. 44 to 69 of Price Bid.**

The completed qualification bid and price bid along with requisite EMD of **Rs.2,00,000/-** for the work in the form of Demand Draft in favour of BHEL, Trichy shall reach the office of the undersigned on or before **18.03.2010 at 14.55 hrs.** Tenderers who had already remitted one time EMD should furnish the details of cash receipt No. \_\_\_\_\_ dt. \_\_\_\_\_, on the top of EMD cover. EMD in any other form will not be accepted. The qualification bid will be opened on the **same day at 15.00 hrs.** In case of opening day falls on holiday or happened to be declared as a holiday, the receipt and opening of the tender shall automatically fall on the same timing of the next working day. Date and time of opening of the Price Bid shall be intimated only to the bidders those who have qualified after evaluation of the qualification bid. You / your authorized representative may participate in the tender opening.

**Complete set of drawings as indicated in SCHEDULE D of Price Bid can be obtained from the undersigned on request and the same shall be signed and submitted along with the tender document.**

Clarification if any, can be obtained contacting following phone No. 0431 – 2574688 / 2574650 / 2574658. Mobile: 9442631145. Fax No. : 0431 – 2520333.

Kindly acknowledge the receipt of the entire set of tender document.

Thanking you,

Yours faithfully  
For and on behalf of  
BHARAT HEAVY ELECTRICALS LIMITED,

AGM / CIVIL / PLANNING & PROJECTS  
BUILDING No. 53.

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

**CIVIL ENGINEERING DEPARTMENT (FACTORY)**

**PREAMBLE**

01. The scope of work includes **Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.**
02. The tender value excludes cost of cement, reinforcement steel & structural steel which will be supplied by BHEL at Stores at free of cost. Other free issue materials by BHEL are indicated in Schedule B of the Price bid document.
03. Time is the essence of the contract. Being a time bound expansion scheme with capital expenditure, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **12 months**, the shop floor and other works shall be completed progressively and handed over as per agreed split up schedule.
04. The tenderers are advised to visit BHEL Factory at Tiruchirappalli and get themselves acquainted with the site conditions before submitting the offer.
05. The following eligibility criteria shall be complied to fulfill the Qualification Bid:-
  1. **Separate Registration for EPF, ESI, PAN & Service Tax and for the last three years (2009-12)- IT returns acknowledged by IT Office, Profit & Loss Account and Balance Sheet certified by the auditor.**
  2. **Average annual turnover of similar works in the last 3 years shall be atleast for a value of (Rs.115.48 L)**
  3. **During last seven financial years should have successfully completed works either Three similar works not less than (Rs.153.97 L )**  
Or  
**Two similar works not less than (Rs.192.47 L )**  
Or  
**One similar work not less than (Rs.307.94 L )**
  4. **Value of Structural steel works completed in last 3 years should be atleast 30% value of the minimum required annual turn over as given in criterion 2. (Rs 103.93 L)**
  5. **Latest Solvency certificate (obtained within 6 months) from Nationalised / Scheduled Bank shall be at least for a value of (Rs.153.97 L)**
06. The works executed in the own name of the tenderer only will be considered for eligibility criteria.
07. Dissimilar / irrelevant works will not be considered for eligibility criteria.
08. Documentary evidences (Xerox copies - attested) for turnover, works experience, P.F, ESI & Sales Tax registration etc., all as indicated & required in the tender document should be furnished without which it will not be taken into account.

09. The value of turnover and the value of similar works mentioned above excludes cost of cement, reinforcement steel and structural steel. However if the turnover value furnished by the tenderer includes the above materials, then the tenderer has to furnish the cost of the same separately. If it is not furnished, the materials cost will be presumed as follows: -
- |   |        |
|---|--------|
| Civil & structural works combined         | - 50 % |
| Civil works alone                         | - 35 % |
| Structural works including cloaking items | - 70 % |
| Other minor maintenance works             | - 20 % |
10. The norms for qualification with prescribed score is attached in the Qualification Bid Document. Evaluation will be done accordingly. Minimum score required for qualification is 60.
11. There is no Price variation clause applicable to this tender..
12. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (twenty percentage).
13. Quoted rate shall be firm throughout the contract period of **12 months** and extended contract period also if any, and no cost escalation is allowed on any account.
14. The item rates offered are for finished item of works as per Bill of Quantities and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete. **The rate quoted shall not include service tax. The applicable Service Tax can be claimed from BHEL along with their monthly bills for further payment to be made for the authorities concerned.**
15. 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.
16. The contractor should submit the mix design for RCC for different mix of concrete for different grade of cement at his cost through reputed institution.
17. The contractor should use only weigh batch for all reinforced cement concrete works (controlled concrete). The tenderer is advised to install concrete mini batching plant at site considering the quantum of concrete work involved.
18. 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.
19. The work shall be carried out as per drawings released then and there, Civil Engineering Department Work & Safety procedure, AWS / BIS specifications, standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the bill of quantities provided in the Price Bid. **Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided in the Price Bid. (From page No. 44 to 69).**

20. 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.
21. **After award of work the contractor has to furnish the security deposit, as per Clause 13 of Tender Notice, attached in the Price Bid. 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.**
22. Bank Guarantee format can be obtained after award of work in case of successful tenderer.
23. **The tenderer has to ensure payment of Minimum Wages as per Tamil Nadu State Minimum Wages as applicable under law from time to time.**

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

a) Unskilled Worker	Rs. 2000 per month
b) Semi-skilled Worker	Rs. 2300 per month
c) Skilled Worker / Supervisor	Rs. 2500 per month

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

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

**At present the Tamil Nadu State Government Minimum wages declared is enclosed for your reference ( Ref. Page No.13). Normally the revision will be with effect from 1<sup>st</sup> April of every year. Tenderers are requested to quote their offer after taking into account of the above factor also.**

24. The contractor should bring the construction earth moving machineries like Poclain, Paver, Road Roller, JCB etc., as and when required for the work without any delay. Also required number of the following tools & Plants / instruments shall be made available always at site for the works.
- a) Precise Leveling instruments and theodolite.
  - b) Full load mixture machine / mini batching
  - c) Petrol / Kerosene driven vibrator/ mechanical vibrat
  - d) Cube moulds
  - e) Inter carting vehicle (tractor, hand trolley etc)
  - f) Hydra cranes
  - g) Power operated winches
  - h) Mobile / Hydraulic crane
  - i) Welding machine etc.
25. 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.
26. The contractor has to execute any item of work irrespective of the quantity available in the tender without any reservation till the contract value does not vary more than 20%.

27. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot. The contract should arrange for surveying construction site at his own cost.
28. 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.
29. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
30. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
31. The contractor shall strictly adhere to various labour laws in force.
- 32.. The contractor has to submit the organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
33. The contractor should submit the programme for the completion of work and the list of machineries and site personnel to be deployed for the work along with tender.
34. The contractor should establish his own site office, fabrication yard, handling facility, storage facility to stock about 300 MT of cement etc., for which vacant land will be allotted on specific request for which the rent will not be collected.
35. The contractor is required to carry out construction activities as directed by the department officials. It is required to engage certain minimum strength of staff for effective supervision of works as indicated below:

Site in-charge / Construction Manager	-	1 No.
Planning Engineer and co-ordinator	-	1 No.
Qualified Surveyor	-	1 No.
Civil Engineer (Graduate in Civil Engineering)	-	1 No.
Structural Engineer (Graduate in Mechanical / Civil Engg.)	-	1 Nos.
Supervisor/Engineer (Diploma Holder)	-	2 Nos.
Level-II NDT Inspector	-	1 Nos.

In addition to the above, Quantity surveyors have to be engaged to prepare measurements and submit the bills.
36. Adequate number of Quality Engineer and qualified Safety Engineer should be deployed at site. Experienced Engineers / Supervisors are to be engaged in Railway and water supply works.
37. To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
38. The tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled, Mason, Carpenter, Plumber, Welder, Fitter, Mistry, Technically experienced, etc. so as to execute the works simultaneously in all areas of work. The Technical persons with experience shall have to produce valid certificate for verification.

39. Expertised labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply, railway track laying and aligning works, sewerage system work, etc.
40. The contractor shall follow norms of BHEL security system for movement of men & materials within the complex including biometric system.
41. Exclusive Stores personnel should be engaged who would co ordinate with department official for clearance and collection of BHEL supplied materials required for works.
42. Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of Factory Complex.
43. The tenderer shall carry out health performance test at his cost for all the workmen engaged in the work through a registered medical practitioner and produce certificate on demand.
44. It shall be the responsibility of the contractor to see that the workmen do not utilize the departmental canteen facilities. Contractor has to make his own arrangements to provide refreshment for the workmen.
45. All the works shall be executed as per the standard specifications as provided in TNBP / BIS.
46. All the materials to be used in the work and the nature of work shall conform to the respective TNBP & BIS and National Building Organisation, Standard Specifications forming part of "ALL INDIA STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-charge before actual incorporation in the work.
47. The contractor should maintain proper accounts for cement, reinforcement steel and structural steel sections and other materials if any supplied by this organisation and these should be available at the site of work for verification and check by the Officials of this Organisation at any time.
48. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work.  
  
All the structural works including fabrication, erection etc., are subjected to inspection and clearance by Third Party Agency fixed by BHEL.
49. **The contractor should use only the materials of brand and quality as approved by BHEL.**
50. All materials and consumables brought by the contractor should have manufacturer's certificate.
51. All tools and plants including jack hammer with silencer & bits, rock drilling machine, etc., required for all the works covered under this contract will have to be brought by the contractor. Compressed air alone will be provided at viable locations at free of cost by BHEL. From that point the contractor has to provide further arrangements for site works.

52. All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure like railway lines if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department.
53. 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.
54. The contractor should extend fullest co-operation with the third party agencies engaged, if any by BHEL to adhere the Quality Control Procedures ensuring quality.
55. 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.
56. With regard to specifications not covered by the General and Special Conditions of Contract, those contained in the Tamil Nadu Building Practice Standard Specifications or other specifications approved by Bharat Heavy Electricals Limited, shall apply.
57. 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.
58. 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.
59. On the written request from the contractor **Compressed air alone will be provided 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 jack hammer with silencer wherever BHEL is not in a position to supply compressed air.
60. Purchase preference policy if applicable will be extended to CPSE bidders subject to other terms & conditions as provided in the office memorandum issued by DPE. The tenderer has to furnish copy of Government circular for claiming purchase preference.
61. Tenderers are requested to furnish the duly filled in E format attached as separate sheet along with a cancelled cheque leaf to accept Electronic fund transfer / R T G S transfer for any payment from BHEL, Trichy.

62. No advance / mobilization advance will be given.
63. LD / Penalty clause is applicable as per General Conditions of Contract in force.
64. BHEL reserves its right to reject a tender due to unsatisfactory past performance in the execution of a contract at another project/unit awarded against a different enquiry.
65. 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.

## **REVERSE AUCTION**

**BHEL reserves the right to go for a Reverse Auction (RA)** instead of Opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions governing RA are given below.

### **GENERAL TERMS AND CONDITIONS OF RA**

Against this tender for the subject work/system with detailed scope of work as per tender specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
4. Reverse Auction rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to Participate in the event.
6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Taxes and Duties, Freight charges, Insurance and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.

However if the service tax is applicable for this contract, the same will be reimbursed on production of valid document proof for having paid service tax by the tenderer.

7. Reverse auction will be conducted on scheduled date & time.
8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.
9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.
10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
11. 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.
12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction

**Force Majeure clause:** If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by BHEL subject to prompt notification by the tenderer to BHEL of the particulars of the events and supply to the BHEL if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

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.

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.

In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be binding on both the parties to the business.

Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalisation of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any on going tenders even if participated till the hold is officially lifted and confirmed in writing.

**Bharat Heavy Electricals Limited  
Tiruchirappalli - 14**

No.BHE:POW:340  
Date : 17/04/2012

**CIRCULAR**

**All Contract Awarding/Executing Officials**

**Sub :** Minimum Wages Act 1948 – Tamil Nadu State Government Minimum Wages - Reg.  
**Ref :** 1. Letter No.Z3/7638/2012 dt.13/03/2012 from the Comm. of Labour, Chennai - 600006  
2. Tamil Nadu Govt. Gazette No.8 dated 29/02/2012

Consequent upon the increase in Basic Wages and Dearness Allowance payable under the Minimum Wages Act to those employed in "General Engineering and Fabrication Industry", the Minimum Wages payable by the Contractors to their workmen engaged in the following categories would be as follows with effect from 01/04/2012 :

SI No	Category	Minimum Basic wages per day	Minimum DA per day	Total Minimum wages per day	Minimum Basic wages per month	Minimum DA per month	Total Minimum wages per month
1	Unskilled	Rs.123.00	Rs.86.00	Rs.209.00	Rs.3690.00	Rs.2238.00	Rs.5928.00
2	Semi - Skilled working as Helpers for not less than 2 years in a particular trade	Rs.129.00	Rs.86.00	Rs.215.00	Rs.3870.00	Rs.2238.00	Rs.6108.00
3	Semi - Skilled - All Trade Certificate holders	Rs.133.00	Rs.86.00	Rs.219.00	Rs.3990.00	Rs.2238.00	Rs.6228.00
4	Skilled	Rs.139.00	Rs.86.00	Rs.225.00	Rs.4170.00	Rs.2238.00	Rs.6408.00
5	Supervisor				Rs.3956.00	Rs.2238.00	Rs.6194.00

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

  
17/04/12  
Manager/HR/Welfare

**Cc. :** All HR Executives thro' Email  
Manager/HR/PC  
DGM/Finance/W & R



**BHARAT HEAVY ELECTRICALS LIMITED**  
(A Government of India Undertaking )  
Unit : TIRUVERUMBUR, BOILER PROJECT, P.O.  
TIRUCHIRAPALLI - 620 014.

**CIVIL ENGINEERING DEPARTMENT**

**NOTICE INVITING TENDER**

01. Name of work:  
**Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.**
02. Estimated Cost : **Rs.384.93 Lakh**
03. Earnest Money Deposit : **Rs.2,00,000/-**
04. Completion Time : **TWELVE ( 12 ) Months**  
(From the date of commencement of the work which will be reckoned from the date of handing over to the Contractor )
05. Cost of Tender Document : **Rs.750/-**  
(Rs. 825/- if required by post) including Sales Tax in DD form This amount will not be refunded under any circumstances.
06. Last Date for Receipt of Tenders : **14.55 Hrs. on 18.03.2013**
07. Date of Tender Opening : **15.00 Hrs. on 18.03.2013**
08. Maintenance Period :6 (Six Months from the date of actual completion of the entire work and Handing over to Bharat Heavy Electricals Limited)

Tender document contains totally **341** pages, Qualification Bid - **263** pages, Price Bid - **75** pages including Bill of Quantities and **3** pages as Drawings etc.

Issued to Messrs. / Thiru :

**ISSUING OFFICER**

**CONTRACTOR**

14

**ACCEPTING OFFICER**

## INSTRUCTIONS TO TENDERERS

1. The tender is open to all Contractors. The Contractors not borne on the approved list of contractors of this Organization must submit the following testimonials simultaneously with their tenders.
  - i. A Certificate to establish that the tenderer is an independent contractor working on his own
  - ii. At least two certificates from responsible Officers of Government of Firms of repute, regarding the tenderer's capacity to undertake to undertake and carryout the work tendered for or similar work satisfactorily

### **NOTE :**

- a) Copies of testimonials unless attested a Gazetted Officer will not be accepted
  - b) Non – Submission of the above testimonials simultaneously with the tenders may result in the tender being rejected
2. The tenders should be accompanied by a list of contracts already held by the contractor at the time of submitting the tender and giving the following particulars
    - a) Value of each contract
    - b) The balance value of work to be done on the same
  3. The tenderer is advised to obtain the tender documents in person or by a messenger duly authorized to do so. The BHARAT HEAVY ELECTRICALS LIMITED will not under any circumstances accept responsibility for the non – receipt of delay in the receipt of the tender documents by the tender.
  4. Rate for each item of the tender schedule should be quoted in FIGURES and in WORDS. In case of any difference in the rates quoted in figures and in words, the lower of the two rates will be taken as the tendered rate. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
  5. Rate quoted shall include all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax, cess on Building and other construction workers Act 1996 and any other taxes leviable under the State or Central Government rules. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect. **The rate quoted shall not include service tax. The applicable Service Tax can be claimed from BHEL along with their monthly bills for further payment to be made for the authorities concerned.**
  6. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (Twenty Percentage)
  7. Quoted rate shall be firm throughout the contract period of **12 months** and no cost escalation is allowed on any account including extended period if any.
  8. The works contract to be entered in to with the contractor will be governed by the BHEL Revised General Conditions of contract in force.
  9. Should a tender find discrepancies or omissions in the drawings or any of the tender documents or should be in doubt as to their meaning, he should at once address the authority inviting the tender for clarification. Every Endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any

error which may be subsequently by discovered and shall make no subsequent claim on account thereof.

10. Tenders submitted by post should be sent "Registered Post with Acknowledgement due". These should be posted with due allowance for any delay in postal delivery. Tenders received after the due date and time of opening, tenders are liable to be rejected.
11. Where the tender called for covers only the building work and excludes internal services such as sanitary and water supply installations, electrification etc., the building contractor will have to leave pockets, holes, etc., as required for other works and will have to phase his work to ensure smooth progress of the work of the other agencies also as directed by the Engineer – in – charge.
12. Where the tender schedule contains special items of work such special floor finishes, foam concrete for insulation, special water proofing treatment to roofs etc., it will be entirely at the discretion of the Project Authorities to allot these items of work to other contractors specialized in these works. In such cases, the main building Contractor will have to tender all necessary co-operation to the agencies involved so as to ensure the smooth progress of all work.
13. The contractor's responsibility under this shall commence from the date of receipt of the contract order of acceptance of his tender. The scheduled period of completion for this work will be as mentioned in page No. 14 and the Contractor will have to plan his work accordingly.
14. Generally, the maintenance period for any work under BHEL Organization will be Six (6) months.

**15. Earnest Money Deposit:**

Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. EMD be furnished only in the form of Pay Order or Demand Draft in favour of BHEL, Trichy, EMD in any other form will not be accepted. The rate of earnest money deposit shall be as under:

Works costing up to Rs. 2 lakhs	NIL
Works costing more than Rs.2 lakh and up to Rs. 5 lakhs	Rs. 10000/-
Works costing more than Rs.5 lakhs and up to Rs.10 lakhs	Rs. 20000/-
Works costing more than Rs.10 lakhs and up to Rs.20 lakhs	Rs. 40,000/-
Works costing more than Rs.20 lakhs and up to Rs.30 lakhs	Rs. 60,000/-
Works costing more than Rs.30 lakhs and up to Rs.50 lakhs	Rs.1,00,000/-
Works costing more than Rs.50 lakhs and up to Rs.100 lakhs	Rs.1,50,000/-
Works costing more than Rs.100 lakhs	Rs. 2,00,000/-

One time EMD will also be Rs.2.00 lakhs.

EMD by the Tenderer will be forfeited as per tender Documents if:

- a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates,
- b) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.
- c) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.
- d) EMD shall not carry any interest.

16. Should a tenderer or a contractor on the list of approved Contractors have a relative, or in the case of a firm or Company of contractors any of its share holders or shareholder's relative, employed in a gazetted capacity in the Engineering Department of the Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender, may be disqualified or if such fact subsequently comes to light, the contract may be rescinded in accordance with the relevant provisions in the General Conditions of Contract.
17. If tenderer expires after the submission of his tender or after the acceptance of his tender the BHEL may, at their discretion, cancels such tender. If a partner of a firm expires after submission of tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character.
18. The Bharat Heavy Electricals Limited will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice the cost of which will be chargeable to the contract concerned.
19. If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, the Bharat heavy Electricals Limited, reserves the right to reject such tender at any stage.
20. Words importing the singular number shall also be deemed to include the plural number and vice versa where the context so requires.
21. The expenses for competing and stamping the agreement shall be paid by the contractor.
22. The General and special conditions are complementary to each other and where they are conflict the Special Conditions shall prevail. In regard to matters not covered by the General and Special Conditions of Contract, those contained, those contained in the Tamil Nadu Building Practice Standard Specifications or other specifications approved by the Bharat Heavy Limited, Shall apply.
23. Tenderers shall not increase their quoted rates in case the Bharat Heavy Electricals Limited, negotiates for negotiation for reduction of rates. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderes for a period of three months from the date of opening of tenders.
24. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection
25. All contractors will have to produce Income tax Clearance Certificate from the Income Tax- Officer concerned along with their tenders. Those Contractors whose income is not taxable will be required to give an affidavit of their income on the prescribed form. If the successful tenderer fails to produce the Income – tax clearance certificate within the stated period the Earnest Money Deposit and Security Deposit of the tenderer may be forfeited and the contract terminated.

## TENDER NOTICE

### NAME OF WORK :

**Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.**

### ESTIMATED COST : Rs 384.93 LAKHS

1. SEALED TENDERS for the above noted work are hereby invited from contractor experienced in works of similar kind and magnitude. Tenders will be received by **SR MANAGER/CIVIL/PLANNING(FACTORY)** Bharat Heavy Electricals Limited, Tiruchirappalli – 620 014. Up to 14.55 Hrs. on **18.03.13** and will be opened on the same day at 15.00 Hrs. at the **Office of the SR.MANAGER /CIVIL/ PLANNING (FACTORY)** in the presence of such of those tenderers. Or their agents who may choose to attend.
2. TENDER FORMS and other particulars regarding the proposed work can be obtained on any working day from 8.00 A.M. to 4.30 P.M. up to **16.03.13** on payment of the prescribed sum of Rs. **750 / -** per set in person (Rs. 825/- if required by post) including Sales Tax in the form of Demand Draft Amount nor refundable.

In case of tender documents downloaded from website, tender shall accompany the tender cost of Rs.750/- in the form of Demand Draft (separate) in addition to the EMD amount in the form of Demand Draft. Tenders without tender cost will also be summarily rejected.

3. TENDERS must be submitted in sealed covers and should be addressed to the with full name and address of the tenderer and the name of work being noted on the cover
4. All entries in the tender documents should be in the one ink. Erasers and over writings are not permitted. All cancellations and insertions should be duly signed by the tenderer concerned.
5. TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attach there to before submitting their tender.
6. UNIT rate should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule. These rates shall be for the finished work in site. Amount of each item and the total page by page and also the grand total amount of the whole contract should be filled in by the tenderers. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
7. QUANTITIES shown in the attached schedule are only approximate and are liable to variation without entitling the Contractors to any compensation, provided the total value of the Contract does not vary by more than 20% (twenty percent )
8. In quoting their rates, the tenderers are advised to take account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.

9. Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevalent conditions position of materials and labour, General and Special Conditions of Contract. Instructions to tenders, drawings and Specifications and all other documents which form part of the Agreements to be entered into.
10. The rates quoted in the tender shall remain valid for a period THREE MONTHS from the date of opening of tenders.
11. In the event of tender being submitted by firm the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned in the latter case a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.
12. Every tender must be accompanied with EMD for the amount as specified in Page No. 01 in any of the form mentioned in Para 12 of the "Instruction to Tenderers". This Earnest Money will be refunded to the unsuccessful tenderers within fifteen days of finalization of the award of work. In case of the successful tenderer, the Earnest Money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with Clause 16 of the General Conditions of Contract

**NOTE :** Cheques, Currency Notes and Money Orders will not be accepted in lieu of the deposit receipt referred to above

### 13. Security Deposit

- 13.1 Security Deposit should be collected from the successful tenderer . The rate of Security Deposit will be as below:

Up to Rs. 10 lakhs	: 10%
Above Rs. 10 lakhs up to Rs.50 lakhs	: 1 lakh + 7.5% of the amount exceeding Rs. 10 lakhs.
Above Rs. 50 lakhs	:Rs.4 lakhs + 5% of the amount exceeding Rs. 50 lakhs.

The security Deposit should be collected before start of the work from the contractor.

- 13.2 Security Deposit may be furnished in any one of the following forms

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL.
- iii) Local cheques of scheduled banks, subject to realization.
- iv) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc.  
(Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL.
- vi) Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the Companies Act. The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.

- vii) Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

**NOTE:** Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

- 14. Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para 13 above within Seven days of the date of the order directing him to do so the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.
- 15. If after opening of tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instruction of the Engineer-in-charge, the Earnest Money deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
- 16. The Bharat Heavy Electricals Limited reserve the right to reject any or all the received or accept any tender or part there of without assigning any reason thereof. In the case acceptance of part of tender, time for completion may also be reduced to the extent considered appropriate by the Accepting Authority.
- 17. Conditional and Unwitnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.
- 18. Tenders not submitted on the prescribed form are liable to be rejected
- 19. The work must be completed within a period as mentioned in Page No. 14.
- 20. The Chairman / General Manger / Deputy General Manager / Deputy Manager / Senior Engineer shall be Accepting Officer, herein after referred to as such for the purpose of this contract.
- 21. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.
- 22. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for 'Health & Safety of Contract Labourer' in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

**ISSUING OFFICER**



**BHARAT HEAVY ELECTRICALS LIMITED ,  
UNIT: TIRUCHIRAPALLI - 620 014**

**CIVIL ENGINEERING DEPARTMENT (FACTORY)**

**Norms for Qualification for Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.**

**Tender Schedule No.11/12-13**

**TENDER VALUE OF Rs.384.93 L**

Sl. No.	Thrust Area	Score	Tender Value
			Rs. 384.93 Lakh
	<b>ELIGIBILITY:</b>  1. Separate Registration for EPF, ESI, PAN & Service Tax and for the last three years (2009-12)- IT returns acknowledged by IT Office, Profit & Loss Account and Balance Sheet certified by the auditor.  2. Average annual turnover of similar works in the last 3 years shall be atleast for a value of (Rs.115.48 L)  3. During last seven financial years should have successfully completed works either  Three similar works not less than (Rs.153.97 L ) Or Two similar works not less than (Rs.192.47 L ) Or One similar work not less than (Rs.307.94 L )  4. Value of Structural steel works completed in last 3 years should be atleast 30% value of the minimum required annual turn over as given in criterion 2. (Rs.103.93 L)  5. Latest Solvency certificate (obtained within 6 months) from Nationalised / Scheduled Bank shall be at least for a value of (Rs.153.97 L)		
	<b>THRUST AREA</b>	<b>SCORE</b>	<b>QUALIFICATION NORMS</b>
<b>I</b>	<b>NATURE OF COMPANY</b>	<b>5</b>	
	Public Limited	5	
	Private Limited/Partnership firm	3	
	Sole Proprietor	2	
<b>II</b>	<b>Similar Experience (Civil Works)</b>	<b>20</b>	
	Total value of similar works executed in the last three years (Pro-rata for in between cases)	20	Rs.277.15 L
	More than	12	Rs.138.57 L
<b>III</b>	<b>Similar Experience (Structural steel works)</b>	<b>30</b>	

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	Value of structural steel works executed related to Civil Engg. in last three years (Pro-rata for in between cases)	30	Rs.415.72 L
	(Pro-rata for in between cases)	18	Rs.207.86 L
	More than	9	Rs.103.93 L
<b>IV</b>	<b>Performance on previous works and Rs. 153.97 Lakhs the min. cost of each work during last seven financial years.</b>	<b>10</b>	
	Successful completion of three major works in time.	10	
	Successful completion of two major works in time.	8	
	Successful completion of one major work in time.	6	
<b>V</b>	<b>Highest value of single work completed during last seven financial years.</b>	<b>10</b>	
	More than	10	Rs.307.94 L
	(Pro-rata for in between cases)	6	Rs153.97 L
<b>VI</b>	<b>Equipments owned</b>	<b>10</b>	
	Concrete Batching Plant with transit mixer traveller, welding & erection equipments including crane. (Mixer machine with Hopper, Vibrator, Shuttering, Pumps etc. - Min. two sets of equipments)	10	
	Concrete Batching Plant with transit mixer traveller, welding & erection equipments without crane. (Mixer machine with Hopper, Vibrator, Shuttering, Pumps etc. - Min. two sets of equipments)	8	
	Concrete equipments, welding & erection equipments. (Mixer machine with Hopper, Vibrator, Shuttering, Pumps etc. - Min. two sets of equipments) without Batching Plant & crane.	6	
<b>VII</b>	<b>Qualified staff availability</b>	<b>5</b>	
	Minimum of Graduate Engineer - 5 No Minimum of Supervisors - 5 No	5	
	Minimum of Graduate Engineer - 3 No Minimum of Supervisors - 3 No	3	
<b>VIII</b>	<b>Financial stability - Solvency Certificate</b>	<b>10</b>	
	Pro-rata for in between cases	10	Rs.307.94 L
	More than .	6	Rs153.97 L

- NOTE: i) Minimum score required for qualification is 60 out of 100.**
- ii) **All the above financial value excludes cost of cement, steel reinforcement & structural steel.**



12. Is the individual/sole proprietor/any partner/directors of company:
- (a) Dismissed Government Servant Yes  No
- (b) Having business banned/suspended by any government in the past Yes  No
- (c) Convicted by a court of law Yes  No
- (d) Retired Engineer / Official from Engineering Departments of Govt. of India within last two years Yes  No
- (e) Director or partner of any other company / firm enlisted with CPWD or any other department Yes  No
- (f) Member of Parliament or any State Legislative Assembly If answer to any of the above is 'Yes', furnish details on a separate sheet Yes  No
13. Name of person holding power of attorney. ....  
(Copy to be enclosed) .....
- (a) Nationality Indian  Other
- (b) Liabilities
14. Name of Banker with full address .....  
(Note: Banker's report in original preferably in sealed cover, giving the financial capacity to handle works of the required magnitude should be enclosed) .....
15. Place of business .....
16. Date of commencement of business .....
17. Details of Income Tax paid during last three years. 1. 2011-12  
2. 2010-11  
3. 2009-10
18. State whether Income Tax Clearance Certificate from the appropriate authority in the prescribed form enclosed. Yes  No
19. Contractor's capital in the business. (in case of partnership, please mention percentage of shares and amount)
20. Quantum of business done during last three financial years 1. 2011-12  
2. 2010-11  
3. 2009-10
21. Value of fixed assets of the business in the last three years 1. 2011-12  
2. 2010-11  
3. 2009-10
22. Guarantee limits (if any) enjoyed by the firm.
23. Over-draft limits (if any) enjoyed by the firm.

24. State whether Audited report for Profit and Loss Account & Balance Sheet for last three years enclosed. Yes  No

25. Details of Technically qualified staff :-

Sl. No.	Name and Designation	Qualification	Experience and Specialisation	Remarks if any

26. Whether the details of T & P, Machinery, Equipments and work shop as per Annexure – I given. Yes  No

27. Whether enlisted with any other Department (a) If yes, give details: Yes  No

- (i) Name of Department & address .....
- (ii) Money limit .....
- (iii) Enlistment No. & date .....
- (iv) Valid upto .....

28. Licence No. and validity of licence obtained from Dy. Chief Inspector of Factories / Assistant Commissioner of Labour

29. Whether the applicant has registered his workmen under Employees' State Insurance Act. If so, code number may be furnished. If applied, attested copy of application for registration acknowledged by ESI Authorities.

30. Whether the applicant has registered his workmen under Employees' Provident Funds and Miscellaneous Provisions Act ?. If so, the code number may be furnished. If applied, attested copy of application for registration with acknowledged by PF Authorities.

31. Indicate Central / Local Sales Tax, Excise Duty code Numbers and PAN. 1. CST  
2. LST  
3. ED  
4. PAN

32. Is any person working with the applicant as a near relative of the Officer / Official of BHEL Yes  No

(a) If yes, give details

- (i) Name .....
- (ii) Staff No. ....
- (iii) Designation & Department .....
- (iv) Unit .....

33. Details of similar works completed during the last seven years (To be submitted in separate sheet as per Annexure-II.)
34. Certificates from clients in original as per proforma given in Annexure -III for all eligible works.
35. Certificates:
  - (i) I/We (including all partners) certify that I/We have read the Preamble & 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.
  - (iv)
    - (a) I certify that I did not retire as an Engineer of Gazetted rank or as any Gazetted Officer employed on Engineering or Administrative duties in any Engineering Department of the Government of India during the last two years. I also certify that I have neither such a person under my employment nor shall I employ any such person within two years of his retirement except with the prior permission of the Government. (For Individuals seeking enlistment in their own name).
    - (b) We certify that none of the partners/directors retire as an Engineer of Gazetted rank or as any Gazetted Officer employed on Engineering or Administrative duties in last two years. We also certify that we have neither under our employment any such person nor shall we employ any person within two years of his retirement except with the prior permission of the Government. (For partnership firms and limited companies).

Signature(s) of the applicant(s) Name	Signature	Address (Seal in case of Firm)
1. ....	.....	.....
2. ....	.....	.....
3. ....	.....	.....
4. ....	.....	.....
5. ....	.....	.....

Date:

- NOTE:** 1) All the relevant certificates, details etc. should be attached with the application.  
 2) The terms that are not applicable may be scored out.

Details of documents attached:-

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

**DETAILS OF PLANTS AND EQUIPMENTS OWNED**

Sl. No.	Name of Equipments	Nos.	Capacity or Type	Age	Remarks
	<b>Earth moving equipments</b>				
1.	Excavator (Various sizes)				
	<b>Equipments for hoisting &amp; lifting</b>				
1	Mobile crane				
2.	Tower crane				
3.	Builder's hoist				
	<b>Equipments for concrete works</b>				
1.	Concrete batching plant				
2.	Concrete pump				
3.	Concrete transit mixer				
4.	Concrete mixer (diesel)				
5.	Concrete mixer (electrical)				
6.	Concrete vibrator (electrical)				
7.	Concrete vibrator (petrol)				
8.	Table vibrator (elect./petrol)				
	<b>Equipments for building works</b>				
1.	Block making machine				
2.	Bar bending machine				
3.	Bar cutting machine				
4.	Wood thickness planer				
5.	Drilling machine				
6.	Circular saw machine				
7.	Welding generators				
8.	Welding transformers				
9.	Cube testing machine				
10.	Steel shuttering				
11.	Steel scaffolding				
12.	Grinding/polishing machine				
	<b>Equipments for road works</b>				
1.	Road roller				
2.	Bitumen paver finisher				
3.	Hot mix plant				
4.	Spreaders				
5.	Earth rammers				
6.	Vibratory road roller				
	<b>Equipments for transportation</b>				
1.	Tipper				
2.	Truck				
	<b>Pneumatic equipments</b>				
1.	Air compressor (diesel)				
	<b>Dewatering equipments</b>				
1.	Pump (diesel)				
2.	Pump (electrical)				
	<b>Power equipments</b>				
1.	Diesel generator				
	<b>Any other plants/equipments</b>				

**ANNEXURE - II**

<b>DETAILS OF SIMILAR WORKS COMPLETED DURING THE LAST SEVEN YEARS (2005 – 2006 TO 2011-2012)</b>									
Sl. No.	Name of work & Agreement No.	Date of commencement	Date of completion		Reasons for delay & compensation levied, if any	Work order Value	Gross cost of completion		Name, designation & complete address of the authority for whom the work was done
			Stipulated	Actual			Including cost of cement, steel reinforcement & strl. steel	Excluding cost of cement, steel reinforcement & strl. steel	

DETAILS OF WORK: COMPLETION CERTIFICATES, WORK ORDERS ETC. ARE TO BE FURNISHED

**CONTRACTOR**

**ACCEPTING OFFICER**

**ANNEXURE - III**

**CLIENT'S CERTIFICATE REGARDING PERFORMANCE OF CONTRACTORS**

Name & Address of the Client

.....  
.....

Details of works executed by Shri . M/s .....

.....

1. Name of work with brief particulars :
2. Agreement No. and date :
3. Date of commencement :
4. Stipulated date of completion :
5. Actual date of completion :
6. Details of compensation levied for delay, if any:
7. Tendered amount :
8. Gross amount of the work completed :
9. Name and address of the authority under whom work executed :
10. Whether the contractor employed qualified Engineer/Overseer during execution of work? :
11. (i) Quality of work (indicate grading) : Outstanding/V.Good/Good/Poor  
(ii) Amount of work paid on reduced rate basis, if any :
12. (i) Did the contractor go for arbitration ? :  
(ii) If yes, amount of claim :  
(iii) Amount received :
13. Comments on the capabilities of the contractor  
(a) Technical Proficiency : Outstanding/V.Good/Good/Poor  
(b) Financial Soundness : Outstanding/V.Good/Good/Poor  
(c) Mobilisation of adequate T & P : Outstanding/V.Good/Good/Poor  
(d) Mobilisation of manpower : Outstanding/V.Good/Good/Poor  
(e) General behaviour : Outstanding/V.Good/Good/Poor

NOTE: All columns should be filled in properly.

Signature of the Certifying Officer  
with Official seal.

## GENERAL AND SPECIAL CONDITIONS OF CONTRACT

### GENERAL CONDITIONS

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. **(a) 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.  
**(b) 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.  
**(c) On the written request from the contractor Compressed air alone will be provided this organization at only one point near the site of work at free of cost. The contractor has to provide further arrangements from that point to his other areas.** Also the contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jack hammer with silencer wherever BHEL is not in a position to supply compressed air
5. Permission for erection of temporary work sheds etc., at site will have to be obtained from BHEL in writing in advance.
6. The works contract to be entered into with the successful tenderer will be governed by the BHEL revised General Conditions of Contract in force.
7. 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.
8. In all matters of dispute, the decision of the General Manager, Bharat Heavy Electricals Ltd., Tiruchirappalli – 620 014. shall be final and binding on the tenderer / contractor.
9. 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.
10. 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

## SPECIAL CONDITIONS

1. 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.

### 2. CEMENT:

**Excess consumption of cement over and above the theoretical requirement as per BHEL Data upto 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

Gunny bags or Polythene Bags or Paper Bags in which cement is issued from BHEL Stores, need not be returned by Contractor to BHEL. The cost for each empty cement bag will be recovered from the Contractor's bills at the following rates.

- |     |                        |                             |
|-----|------------------------|-----------------------------|
| i.  | Empty cement gunny bag | Rs.1.25 + ST and SC / each  |
| ii  | Empty Polythene bag    | Rs. 0.50 + ST and SC / each |
| iii | Empty paper bag        | Rs. 0.25+ST and SC / each.  |

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

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

#### 4. 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.

(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 utilised 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 upto 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 upto 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**

iii) **For ERW Tubes:**

- a) **Single recovery rate for the non returned scrap upto 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 upto 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.

5. 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.
6. 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
7. 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.
8. 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.
9. The contractor should submit in advance every fortnight a detailed programme 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.
10. 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.

## **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 in 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 conform with standard specification as per the details given in the code of conduct.

Contractor including their sub contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measures. 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.

## **SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS**

### **I. 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 drivers 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 licence 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.
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.

## **TERMS AND CONDITIONS REGARDING COMPLIANCE WITH VARIOUS LABOUR LAWS BY THE CONTRACTORS FOR BHEL**

1. The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.
2. The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.
  - a) The Contract Labour (Regulation & Abolition) Act 1970 and the related Tamil Nadu Rules.
  - b) The Minimum Wages Act 1948 and the related Tamil Nadu Rules.
  - c) The Payment of Wages Act 1936 and the related Tamil Nadu Rules.
  - d) The Factories Act 1948 and the related Tamil Nadu Rules.
  - e) The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
  - f) The Employees State Insurance Act 1948.
  - g) The Workmen Compensation Act 1923.
  - h) The Industrial Disputes Act 1947.
  - i) **The Payment of Bonus Act 1965.**

and any other law or modifications to the above or to the Rules made thereunder from time to time.

### **REGISTRATION AND LICENSING**

3. Every Contractor shall register his name with the Welfare Section of BHEL before taking up the work awarded to him by giving the following information and getting a Code Number :
  - a) The Name of the Contractor
  - b) Nature of Contract Work
  - c) Period of work
  - d) Number of maximum labour employed by him on any one day
  - e) License No. & Date (Applicable in case of contractor employing 20 or more workers)
  - f) Whether enrolled for PF, ESI, etc., and enrolment No.

This information is called for, for the purpose of informing the Inspectorate of Factories whenever they call for information regarding contracts.

4. The Contractor employing 20 or more workmen is required to obtain license from the authorities ( The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be ). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the licence number to the BHEL Management before taking up the work.
5. The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by BHEL authorities for the purpose of fulfilling their obligations as Principal Employer and / or Occupier of the Factory and shall render all necessary assistance for the same.

### **WAGES**

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

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

- |                                |                    |
|--------------------------------|--------------------|
| a) Unskilled Worker            | Rs. 2000 per month |
| b) Semi-skilled Worker         | Rs. 2300 per month |
| c) Skilled Worker / Supervisor | Rs. 2500 per month |

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

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

At present the Tamil Nadu State Government Minimum wages declared is enclosed for your reference (Ref. Page No.13). Normally the revision will be with effect from 1<sup>st</sup> April of every year. Tenderers are requested to quote their offer after taking into account of the above factor also.

7. The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period shall exceed one month.

8. The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before 10<sup>th</sup> day of the following month.

9. All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before the expiry of the wage period final payment shall be made within 48 hours of the last working day.

10. Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.

11. Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.

12. The Contractor shall ensure the disbursement of wages in the presence of such authorized representative of BHEL Management.

13. The above payment shall be verified by the authorized officer / representative of BHEL with the following certificate of the payment sheet "Certified that the amount shown in Column No..... has been paid to the workmen concerned in my presence on .....at....."

14. A certificate of payment shall be furnished in duplicate by the Contractor to the Engineer in charge each month in Form 'A'.

15. A notice showing the wage period and the place and time of disbursement of wages shall be displayed at the place of work and a copy to be sent to the Welfare Department by the Contractor under acknowledgement.

16. Notices showing the rate of wages, weekly rest days, hours of work, wage period, date of payment of wages, names and addresses of the Inspector having jurisdiction, the date of unpaid wages shall be displayed in Tamil and English in conspicuous places at the establishment and at work site by the Contractor. The Contractor shall inform the BHEL Management every month the details of contract labour engaged for contract in this following form :

- a) Serial Number
- b) Location
- c) Period of work
- d) No. of contract labour engaged during the month
- e) No. of days worked
- f) No. of men worked
- g) Wages paid to workers

The above statement shall be furnished to BHEL Management at the end of every month.

## **REGISTERS AND RECORDS AND COLLECTION OF STATISTICS**

17. The following documents / formats under Contract Labour ( Regulation & Abolition ) Act 1970 and Tamil Nadu Rules thereunder shall be maintained by each contractor.
- Register of persons employed by the Contractor
  - Employment Card
  - Service Certificate
  - Muster Roll, Wage Register, Deduction Register, Wage slip, Overtime Register, Register of Fines, Register of Advances etc.,
18. The Contractor shall display the abstract of the Contract Labour (Regulation&Abolition ) Act and the Rules thereunder both in English and Tamil.
19. Half yearly Return shall be sent by the Contractor in duplicate to the Licensing Officer.
20. The Contractor shall submit the returns required under the Contract Labour (Regulation & Abolition ) Act 1970 periodically to BHEL Management.
21. The Contractor shall without fail give upto date information in writing of the attendance of the workers employed by him.
22. The Contractor shall ensure that his workers keep and produce their Employment Card when coming to duty and take them back when leaving duty.
23. All the above registers and records shall be preserved in original for a period of three years. All the registers, records and notice maintained under the Act and rules shall be produced on demand by Inspector or any authority under the Act.

## **WORKING HOURS AND WORKING CONDITIONS**

24. No worker shall be required or allowed to work on Sunday unless he has or will have a holiday on anyone of the three days before or after the said day.
25. The Contractor shall inform BHEL Management in the prescribed form details of the contract workers scheduled to work on Sunday, the day of rest and also indicate the substituted holiday in lieu thereof. This shall be intimated two days in advance before his workmen are booked for work on Sunday.
26. The contract labour working for more than nine hours in any day or for more than 48 hours in any week shall be paid wages at the rate of twice the ordinary rate of wages in accordance with the provisions of Sections 59 of the Factories Act 1948.
27. The Contractor shall provide all safety devices and personal protective equipment to his workmen at his own cost and shall ensure that his workmen wear / use such devices or equipment provided to them while doing the work and there should not be any relaxation on this.
28. The Contractor shall give four paid National Holidays to his workers, viz., 26<sup>th</sup> January, 1<sup>st</sup> May, 15<sup>th</sup> August and 2<sup>nd</sup> October.
29. The Contractor shall ensure that his workmen vacate the premises after the shift is over.
30. The Contractor shall give leave with wages to his workmen who have worked for a period of 240 days or more in the Factory premises during a calendar year. This leave shall be allowed during the subsequent calendar year at the rate of one day for every 20 days of work performed by the worker during the previous calendar year. The worker whose services commences on a day other than the first of January shall be entitled to leave with wages at the above rate (One day for every 20 days of work) only if he had worked for a minimum of 2/3 of the total number of days in the remainder of the calendar year. This leave will be admissible only during the subsequent calendar year.
31. No woman worker shall be required or allowed to work in the Factory except between the hours of 6.00 A.M. and 7.00 P.M.

32. The Contractor shall comply with the provisions relating to Welfare and Health facilities as provided in the Contract Labour (Regulation and Abolition) Act 1970 read with the Tamil Nadu Contract Labour Rules 1975.

### **NOTICE OF ACCIDENTS**

33. 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.
34. 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 )

### **COVERAGE UNDER THE ESI ACT / PF AND MISCELLANEOUS PROVISIONS ACT**

35. The contractor shall ensure that all his workmen are covered under the Employee's State Insurance Act and produce to BHEL such Registration Number / Enrolment Number before executing the contract work.
36. The Contractor shall regularly pay the amount of contribution. i.e., employer's contributions as well as employees' contribution pursuant of the above scheme as fixed from time to time. The Contribution payable presently is 1.75% wages to be recovered from his workmen and 4.75% of wages to be contributed by the Contractor. Contributions recovered from employee and contribution made by the contractor may be rounded to the next higher multiples of five paise.
37. The Contractor shall take note of any amendment that may be brought forth in the above contribution rate and act accordingly.
38. The contractor shall ensure that his workmen are covered under the EPF & Miscellaneous Provisions Act 1952 and accordingly produce to the BHEL Management the registration / enrolment number before awarding of contract work. As per the existing provisions every worker shall be entitled and required to become a member of the fund. The employee's contribution payable at present is 12% of wages which will be recovered by the contractor from the wages of his workmen and the contractor should pay equal contribution. The contractor is also liable to pay any administrative charges in this behalf that may be decided from time to time. It will be the responsibility of the contractor to ensure such contribution payable in respect of workmen employed through sub-contractors also.
39. The Contractor shall take note of any amendment in the rate of contribution payable under the scheme from time to time.
40. The Contractor shall within seven days of the close of every month submit to BHEL a statement showing the amount of contribution payable / paid for employees engaged by him or through him and shall also furnish to BHEL such information as Principal Employer is required to furnish under the provisions of the ESI Act and PF as well as the schemes made thereunder to the authorities concerned.
41. Whenever any sum of money is found to be recoverable from or payable by the contractor under the above Act, the sum shall be deducted from any sum that may be due or which at any time thereafter may become due to the Contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not sufficient to satisfy the claim, the contractor shall pay the balance thereof on demand. In case any recoveries are made under this clause from security deposit, the contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in amount of security deposit.

42. The Contractor shall abide by all the labour and other laws applicable to contract labour / worker under this contract and shall at all times keep BHEL indemnified against all losses, claims, prosecutions under any law.
43. In case of non-compliance of any of the provisions of the Acts and in case BHEL having complied with the same, BHEL will be entitled to recover the same from the contractor / sub-contractor.
44. Non-exercise of any of the powers or rights available to BHEL hereunder or under any law, shall not in any way operate as waiver thereof.

Note : The Specimen forms for the following are available in BHEL.

- |    |           |   |  |
|----|-----------|---|--|
| 1) | Form 'A'  | - | Payment Certificate                        |
| 2) | Form IV   | - | Application for License                    |
| 3) | Form XIII | - | Register of Workmen employed by contractor |
| 4) | Form XIV  | - | Employment Card                            |
| 5) | Form XV   | - | Service Certificate                        |
| 6) | Form XVI  | - | Muster Roll                                |
| 7) | Form XVII | - | Register of wages                          |
| 8) | Form XIX  | - | Wage slip                                  |

**BHEL APPROVED BRANDS FOR THE FOLLOWING MATERIALS / ITEMS**

Sl.No.	Material	Manufacturing Co.	Brand
1.	Synthetic Enamel Paint	Asian Berger ICI	Apcolite Luxol Dulux gloss
2.	Aluminium Paint	Berger	Berger Aluminium
3.	Interior Emulsion	Asian Berger ICI	Royale Luxol Silk Supercote
4.	Exterior Emulsion	Asian ICI	ACE Supercote
5.	Distemper	Asian Berger ICI	Tractor Bison Maxilite
6.	Cement Paint	Snowcem Agsarcem	Snowcem Agsarcem
7.	A.C. Sheets	Everest India Ltd. Hyderabad India Ltd. Visaka Industries Ltd. Ramco	Everest I Charminar Visaka Ramco
8.	G.I. Pipes	TATA Zenith TNT	TATA Zenith TNT
9.	PVC Pipes	Avonplast Finolex Truebore Vignesh	Avonplast Finolex Truebore Vignesh

## SCHEDULE 'A'

### LIST OF WORKS AND PRICES

#### NAME OF WORK:

**Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.**

**DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is attached as a separate excel file. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES**

Sl.No.	Description of work / supplied	Total amount of work / supplies (in figures and words)		Period of contract
		Rs.	Ps.	
1.	<b>Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay &amp; Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.</b>	<b>384,93,000/-</b>		<b>TWELVE (12) MONTHS</b>

### BILL OF QUANTITIES

Sl. No.	Appx. Qty.	Description of work	TNBP No.	Rate (Both in Unit fig & Words)	Amount Rs. Ps.
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**AS PER SEPARATE SHEETS ATTACHED CONTAINING 26 PAGES.**

**FROM SERIAL No. 44 to 69**

**CONTRACTOR**

43

**ACCEPTING OFFICER**

**BHEL : TRICHY – 14**

**BILL OF QUANTITIES**

**Name of Work:** Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
1	900.00	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. <b><u>Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. - All kinds of soils except rock.</u></b>		Cum	
2	450.00	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. <b><u>Rate also includes bailing or pumping out water during excavation due to subsoil water, rain,etc. - Ordinary rock</u></b>		Cum	
3	1200.00	Earth work for surface excavation ( <b>not exceeding 30 cm in depth, but exceeding 1.5 m in width as well as 10 sqm on plan</b> ) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be leveled and neatly dressed. <b>All kinds of soil except rock.</b>		Cum	

**CONTRACTOR**

**ACCEPTING OFFICER**

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
4	400.00	Earth work for surface excavation <b>(not exceeding 30 cm in depth, but exceeding 1.5 m in width as well as 10 sqm on plan)</b> in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 metres and lift upto 1.5 metre, sectioning the subgrade to proper level and grade. Disposed soil are to be levelled and neatly dressed. - <b>Ordinary rock.</b>		Cum	
5	450.00	Excavation and removal of hard rock engaging Hydraulic excavator with swing mechanism and chain track under carriage ( L&T / Hitachi / JCB or equivalent make ) for the works near existing Buildings / structures where blasting is prohibited and depositing the excavated material at suitable places within the initial lead of 50 meter and for all lifts up to 5 meters for foundation / flooring in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc. to attend earth moving works including pipe line burst , leveling and clearing at water logging areas, RCC / steel debris areas, uprooting and clearing of heavy thorny jungles, etc., as per the instructions of Engineer-in-charge. Rate include cost to provide the facility at BHEL, Trichy Complex which covers hire charges for the machinery, fuel, operation charges, to and fro charges of the machinery, labour and all other incidentals etc., complete.		Cum	
6	1000.00	Extra for every additional lift of 1.5 metre or part thereof in :All kinds of soil excluding rock		Cum	
7	500.00	Extra for every additional lift of 1.5 metre or part thereof in :Ordinary or hard rock		Cum	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
8	9.60	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. - <b>Plain Cement Concrete.</b>		Cum	
9	243.00	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. - <b>Brick work in cement mortar.</b>		Cum	
10	10.00	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. - <b>Stone rubble masonry in cement mortar.</b>		Cum	
11	200.00	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. - <b>RCC louvers / RCC jally.</b>		Sqm	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
12	60.00	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. <b>Tile work in floors and roofs laid in cement mortar.</b>		Sqm	
13	10.00	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. <b>Brick jelly lime concrete</b>		Cum	
14	10.00	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. <b>Doors / Windows / Ventilators (steel or wood) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sqm &amp; below.</b>		Each	
15	5.00	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. <b>IWC with 'P' trap &amp; foot rests.</b>		Nos	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
16	1.00	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. <b>EWC (excluding flushing cistern) / Urinal (earthenware) of any size including foot rests / Wash basin with connected fittings / RCC precast sink or other ready made sinks with connected fittings/ Nahani trap.</b>		Nos	
17	50.00	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. <b>G.I / PVC pipe lines of various dia including all specials.</b>		RM	
18	50.00	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. <b>S.W pipe lines upto 225 mm dia.</b>		RM	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
19	63.15	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 <b>Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc.</b>		MT	
20	1950.00	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. <b>A.C sheets from roofs and side cladding including ridges, valleys, gutters etc.</b>		Sqm	
21	150.00	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. <b>G.I / Aluminium sheets from roofs and side cladding including ridges, valleys, gutters etc.</b>		Sqm	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
22	72.00	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. <b>W.B.M road.</b>		Cum	
23	100.00	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. - <b>Bituminous road.</b>		Cum	
24	100.00	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. <b>A.C / C.I rain water pipes upto 150 mm dia with fittings and clamps.</b>		R.M	
25	10.00	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. <b>RCC or PCC (Using jack hammer for pockets / cable trenches / industrial heavy duty flooring).</b>		Cum	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
26	500.00	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete.		Cum	
27	1400.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering, lead upto 50 m and lift up to 1.5 m etc. complete.		Cum	
28	10.00	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 centering and shuttering. <b>1:2:4 with graded stone aggregate 20 mm nominal size.</b>		Cum	
29	10.00	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 centering and shuttering. <b>1:2:4 with graded stone aggregate 40 mm nominal size.</b>		Cum	
30	800.00	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 centering and shuttering. <b>1:4:8 with graded stone aggregate 40 mm nominal size.</b>		Cum	

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
31	300.00	Damp proof course with cement mortar 1:3, 20 mm thick mixed with an admixture of crude oil at 5 % by weight of cement, all labour etc. complete as per standard specifications.		Sqm	
32	420.00	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of specified grade for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centering, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. <b>M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.</b>		Cum	
33	58.00	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	
34	720.00	Flooring with reinforced cement concrete of mix 1:2:4 using 20 mm and down graded hard broken granite stone jelly for thickness varying from 100 to 500 mm laid in panels not exceeding 6 x 30 m between expansion joints, including necessary vibration using needle / board / screed vibrators, all as required including necessary shuttering, painting the sides with bitumen, but excluding fabrication charges for reinforcement, all as per standard specifications.		Cum	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
35	320.00	Centering 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. <b>Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.</b>		Sqm	
36	750.00	Centering 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. <b>Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.</b>		Sqm	
37	50.00	Centering 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. <b>Suspended floors, roofs, landings, balconies, access platform and sunshades.</b>		Sqm	
38	50.00	Centering 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. <b>Lintels, beams, plinth beams, girders, bressumers and cantilevers</b>		Sqm	
39	10.00	Centering 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. <b>Pockets or holes in foundations for holding down bolts.</b>		Sqm	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
40	10.00	Providing, hoisting and fixing upto floor five level precast reinforced cement concrete elements like slabs etc. of 25 to 150 mm thick in required sizes with mix 1:2:4 using 10 to 20 mm size hard broken granite stone jelly for cupboards, shelves etc. including setting in cement mortar 1:3, cost of centring, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges.		Cum	
41	320.00	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. <b>50 mm thick</b>		Sqm	
42	175.00	Providing and fixing in position of 12 mm thick bitumen impregnated fibre board conforming to IS:1838 including cost of primer, sealing compound in expansion joints.		Sqm	
43	2.00	Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubicmetre of coarse sand for expansion joints.		Cum	
44	10.00	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in cement mortar 1:5 <b>in foundation and plinth</b>		Cum	
45	290.00	Brick work with F.P.S bricks (second class ground moulded chamber bricks) of class designation 50/75 in cement mortar 1:5. <b>in Super structure above plinth upto floor three level</b>		Cum	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
46	120.00	Random rubble masonry in foundation and basement in cement mortar 1:5 including simultaneous flush pointing, all as per standard specifications.		Cum	
47	2000.00	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. <b>Bolts including nuts &amp; washers etc., complete in all sizes &amp; lengths.</b>		Kg	
48	8000.00	Fabrication and fixing in position of M.S inserts out of M.S plates, flats, rounds, angles etc., including necessary lugs made of rounds or flats, sizing and cutting to required lengths, threading, bolting and welding as required and placing the same in position in both plain and reinforced cement concrete members, including adjusting the shuttering if necessary, tying and holding to correct level and line. Rate includes cost of all materials, labour etc., complete		Kg	
49	4500.00	Floor finish with 40 mm thick granolithic 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 hardonite (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.		Sqm	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
50	10.00	Conveying from BHEL stores to site of work cutting to size and fixing in position of 75x75x6 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.		M.T	
51	200.00	Supply and fixing in position of galvanised iron plain sheets of 1.20 to 1.25 mm thick for flashing using G.I bolts, nuts, limpet washers etc. complete bent to shape and fixed in walls with cement mortar 1:3, all as per drawings and specifications.		Sqm	
52	100.00	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). <b>80 mm dia. nominal bore.</b>		RM	
53	300.00	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). <b>100 mm dia. nominal bore.</b>		RM	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
54	900.00	Providing and fixing PVC pipes of 4 K.G / Sq.cm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc. <b>PVC Pipe 160 mm OD</b> .		RM	
55	2000.00	Plastering with cement mortar 1:5 , 12mm thick at all levels as per standard specifications.		Sqm	
56	1000.00	White washing on surfaces using best 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 etc., complete. - <b>Three or more coats</b>		Sqm	
57	50.00	Painting walls with water proofing cement paint of approved brand and shade on surfaces to give an even shade including cleaning, preparing the surfaces, curing etc., complete. <b>Two coats</b>		Sqm	
58	50.00	Painting with synthetic enamel paint of approved brand and shade on surfaces to give an even shade including cleaning the surfaces of all dirt, dust and other foreign matters, sand papering and stopping, all as per standard specifications. <b>Two coats</b> .		Sqm	
59	1000.00	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. <b>Two coats.</b>		Sqm	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
60	260.00	Providing fibre glass reinforcement with UV resistant polyurethane compound lining, to a minimum thickness of 3 mm on newly fabricated M.S gutters at floor level and jointing and filling the gap finishing etc., after erection at a height ranging from 12-24m from FFL, and making the gutters leak proof as per instructions of Engineer-in-charge. The work consists of thoroughly cleaning the surface of the gutters and applying an undercoat of resin over which the alternate layers(min. three layers) of fibre strand & resin to the required thickness before applying polyurethane compound coating at top with one coat of Gel coat with surface mat and polish to provide even surface, preparation of surface with fibre reinforced plastic with 50 microns thick polyurethane lining, testing, etc., complete all as per instruction of Engineer-in-charge. Rate quoted shall also include cost of labour, material with all taxes, scaffolding charges, if any and all other incidental charges etc., complete.		Sqm	
61	1000.00	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. <b>Beyond 1 Km but upto 2 Km.</b>		Cum	
62	1000.00	Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements. <b>Beyond 2 Km but upto 3 Km.</b>		Cum	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
63	10.00	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of factory premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, levelling etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety precautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip. <b>0 - 1 KM</b>		Per trip of 300 cft	
64	10.00	Conveyance of debris generated by dismantling and other modification works by various departments, factory wastes discarded cotton waste, slag, cut tree branches, dried leaves, abandoned broken glass, water closets, urinals, flush tanks, broken furniture, broken refractory bricks, AC materials, hedge cuttings and all other debris and waste materials from various places of factory premises where they are stacked / accumulated and transporting the same by contractor's lorry and disposing off at the specified places, all as per the instructions of Engineer-in-charge. Rate includes labour for collection of the said debris from various places, loading, leading, unloading, spreading, levelling etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety precautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip. <b>1- 2 KM</b>		Per trip of 300 cft	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
65	10.00	Hire charges for engaging earth moving machinery (pockline) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc., of all heights and levelling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.		Hr	
66	24.00	Encasing rolled steel sections in beams and columns in cement concrete 1:2:4 using graded stone aggregate 12.50 mm nominal size including centring, shuttering etc. complete but excluding cost of reinforcement & fabrication charges..		Cum	
67	13.00	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.		MT	
68	1.00	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. <b>Upto 0.9m Rectangular.</b>		Each	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
69	1.00	Providing rectangular/circular manhole as per Drawing No. D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. <b>Above 0.9m upto 1.2m Rectangular.</b>		Each	
70	1.00	Providing rectangular/circular manhole as per Drawing No.D/1016065 for the following depths. Rate includes earth work excavation in all soils (except hard rock requiring blasting) including soft disintegrated rock, watering and ramming of foundation bed, providing cement concrete 1:4:8 in foundation, including necessary slope and forming channels smoothly finished in C.M 1:2, brick work in C.M 1:5 for arch ring, etc., using standard approved bricks, plastering in cement mortar 1:4 for side walls (outside and inside), cement concrete 1:2:4 using 12 to 20 mm HBGS jelly for manhole cover fixing, providing and fixing C.I steps for ladder rungs, etc., complete. Rate includes an initial lead of 10 m and all lifts for excavation and other charges etc., complete, but excludes cost of manhole cover and frame. <b>Above 1.2m upto 1.5m Rectangular.</b>		Each	
<b>TOTAL FOR PART-A</b>				..	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
		<b>PART-B</b>			
71	600.00	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 in compact disk with two copies of printout, all charges for packing (wherever called for) handling, conveying, stacking and all other incidental charges both for raw materials and fabricated steel works. Rate excludes raw structural steel sections which will be supplied by BHEL at stores at free of cost. Rate shall include cost of providing one coat of red oxide primer to relevant IS specification over structural steel works including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications.		MT	
72	150.00	Conveying raw structural steel sections from BHEL stores, transporting to contractor's fabrication shop/site, fabricating the components using submerged arc welding with single (or) multiple electrodes and with approved quality of flux following the procedure stipulated in AWS D 1.1(latest). The components shall be preassembled with required facilities for turning, inverting, tilting to facilitate fabrication and inspection. Edge preparation for welds shall be as per AWS D 1.1 (latest) or as per Q.C.P of BHEL. Sequence of welding shall be worked out by the contractor and submitted to BHEL for approval. The components to be fabricated shall be preheated / post heated		MT	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
		to remove residual stresses due to welding and to remove distortion using temporary fixtures as per Q.C.P of BHEL. Erection mark and stacking the fabricated components shall be executed in accordance with standards. Payment will be made only for the members / parts which were welded together using auto welding under this item. Any other attachment like bracings, attens, stiffeners, gussets, cleats, ribs etc., which will be welded during assembly will be paid under item (1) of part B of this Bill of Quantities. The rate shall include cost of providing one coat of red oxide primer to relevant IS specification and delivery of fabricated steel work at erection site ready for erection including preparation & supply of DODL for BHEL's approval in floppy with two copies of printout. Quoted rate shall include cost for handling, leading, conveying, stacking, consumables hire charges for tools, plants, fuels, labours and other incidental etc., complete.			
73	20.00	Modification / additions / alterations of old structural steel components dismantled from their original position and making suitable to receive the newly fabricated components. The scope of work also include modification of old component by additions and alterations, forming an integral part of the steel work together with all shop welding including using low hydrogen electrode wherever necessary as per drawing and standard specifications. Rate to include one coat of red oxide primer of standard specification and delivery of fabricated steel work ready for erection, at site; preparation of Drawing Office Despatch List for approval by BHEL in compact disc with two copies of print out, and all charges for packing, wherever necessary, handling, leading, conveying, stacking, other incidental charges etc., for old component, raw steel and fabricated steel works.		MT	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
74	790.00	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.		MT	
75	40.00	Collection from BHEL stores and transporting of rails CR 80/R 45 etc. to the contractor's site fabrication shop, straitening 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.		MT	
76	770.00	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. <b>Two coats.</b>		MT	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
77	5000.00	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 <b>for roofing at all heights up to (+) 24.00 metres</b> 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.		Sqm	
78	1650.00	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 <b>for side sheeting at all heights up to (+) 24.00 metres</b> 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.		Sqm	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
79	330.00	Supplying at site of work, hoisting and fixing in position of 2mm thick embossed clear poly carbonate roof light sheets in specified locations and at heights up to (+) 24.00 metres with necessary xylon coated self tapping / self drilling screws with EPDM washers at every ribs etc., complete to match the profile of Aluminium Zinc alloy coated high tensile steel roof sheets, as per instructions of Engineer-in-charge. The rate includes cost of poly carbonate sheets, self tapping / self drilling screws with EPDM washer at every ribs , and labour charges, all scaffolding charges, tools and plants and all other incidental charges etc., complete .		Sqm	
80	1100.00	Supplying at site of work, hoisting and fixing in position of 4-6mm thick multiwalled clear (UV coated) Polycarbonate sheet for <u>north light glazing / glazing in monitor type roof</u> to suit the rows of glazing runner (inclined and vertical) as per drawing including provision of suitable aluminium frames as required. The scope of work includes supply of polycarbonate sheets, aluminium frames (top & bottom) in required profile fitted with EPDM rubber gaskets and fixing in the glazing runner using SDST screws of approved make and the polycarbonate sheets are suitably placed between the aluminium frames before driving the top frame screws all as per Drawing No. BHE:CP:04:404/2009, instructions of Engineer-in-charge. The top and bottom portion of polycarbonate sheets shall be closed with aluminium U channels to prevent dust and insects. Rate shall include cost of polycarbonate sheets, aluminium frames, U channels, EPDM rubber gaskets, SDST screws, required labour, tools & plants etc., complete.		Sqm	
81	1000.00	Supplying and fixing Galvanised Cup type rail clamp with fittings like stud, bolt of 5.8 grade and spring washer for crane rail / BG track / gantry track etc. Rate includes conveyance, welding including consumables, labour charges etc. complete as per instructions of Engineer-in-charge.		each	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
82	1333.13	Carrying out LPI test wherever required as per QCP, in fabrication and erection work as per standard specification and as per the instruction of Engineer-in-charge. The rate to include supply of chemicals, labour, hire charges for tools & plants, scaffolding, other accessories and all incidentals etc., complete.		R.M.	
83	1777.50	Carrying out MPI test wherever required as per QCP, in fabrication and erection work as per standard specification and as per the instruction of Engineer-in-charge. The rate to include supply of chemicals, labour, hire charges for tools & plants, scaffolding, other accessories and all incidentals etc., complete.		R.M.	
84	296.25	Carrying out radiographic test using Iridium source for butt welds upto a thickness of 40mm wherever required / as per QCP as per standard specification and direction of Engineer-in-charge. The rate to include supply of required labour, films, tools, plants etc., complete.		SQ.CM.	
85	24.69	Conducting ultrasonic test on welds as per standard practice and instruction of Engineer-in-charge. The rate to include cost of labour, hire charges for tools & plants, accessories, incidentals etc., complete.		R.M.	

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ACCEPTING OFFICER

Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
86	100.00	Conducting Ultrasonic testing at BHEL inside fabrication yard for steel plates using straight beam probe 24mm OD of 10mm 100% coverage from one major surface of plate in scanning direction –1 as per standard specification SA 435 / SA 435-M. The rate shall include all labour charges for marking, testing, punching of defective spots, preparation and submission of UT reports, punching of identification numbers and cost of consumables like couplants, cotton waste, etc.,. Qualified NDE personal certified level II as per ASNT standard of latest edition shall conduct testing. Also includes all incidental charges, hire and running charges for equipments tools & plants, transportation, leading, loading, conveyance, etc., complete.		SQM	
87	80.00	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 heights up to (+) 24.00 metres with necessary screws,, bolts etc., and finishing to match with existing roof. Rate to include cost of all labour charges for fixing the roof ventilators 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.		Each	
88	3.00	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 etc., complete except cement which will be supplied by BHEL at stores at free of cost.		Cum	

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Sl. No.	Quantity	DESCRIPTION OF WORK	Rate (Both in figures & in words)	UNIT	Amount Rs.Ps
89	3.00	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Cera Grout 20/40 or Pidigrout 5M/10M or Flogrout 40/60 or Conbextra GP1/GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.		Cum	
			<b>TOTAL FOR PART - B</b>		..
			<b>TOTAL FOR PART - A</b>		..
			<b>GRAND TOTAL</b>		..
(Rupees..... only)					

CONTRACTOR

ACCEPTING OFFICER

## SCHEDULE 'B'

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

SI.No.	DESCRIPTION	PLACE OF ISSUE
1	Cement	BHEL STORES or Stock yard
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL STORES or Stock yard
3	Aluminium zinc alloy coated high tensile steel sheet	BHEL STORES or Stock yard
4	Cast iron pipes & specials including pig lead for jointing	BHEL STORES or Stock yard

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

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

**CONTRACTOR**

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**ACCEPTING OFFICER**

## 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	0-TP-CEG-01091	Details of foundation & other civil works for AB bay & IC bay extension
2	0-TP-CEG-01092	General & Structural arrangement for AB bay & IC bay extension
3	2-TP-CEG-01096	General Notes

## SCHEDULE 'E'

### LEAD STATEMENT

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

**CONTRACTOR**

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**ACCEPTING OFFICER**



Contract Agreement No.....

**TENDER**

To

The SR.MANAGER/CIVIL/FACTORY (PLANNING)  
Bharat Heavy Electricals Limited  
Unit : Tiruverumbur  
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the work of **“Construction and expansion of additional shop floors, machine foundation, RCC / Steel framed structure and other infrastructure works in AB Bay & Interconnection Bay at Seamless Steel Tube Plant, BHEL, Tiruchy.”**

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

1. Specifications (General & Particular )
2. Drawings
3. Schedule ‘A’, ‘B’, ‘C’, ‘D’ & ‘E’ and Bill of Quantities attached hereto.
4. Schedule or rates
5. BHE Ltd., General & Special Conditions of Contract, Tender Notice and Instructions to Tenders attached hereto.

I / We forward herewith the sum of Rs.....as Earnest Money, which shall be refunded should this tender be rejected. I / We further agree to deposit such sum which along with the sum of Rs.....mentioned above shall make up 50% of the fully Security Deposit for this work as provided for under conditions of the BHARAT HEAVY ELECTRICALS LIMITED General Conditions of Contract.

I / We further agree to execute all the work referred to in the said documents upon the terms & condition contained or referred therein and as detailed in Schedule ‘A’ and Bill of Quantities annexure thereto an to carry out such deviations as may be ordered, vide conditions 6 of the BHEL Ltd., General Conditions of Contract upto a maximum of 20% of the tendered of Rs.....

I / WE further agree to refer all disputes, as required by condition 62 of the General conditions of Contract to the sole arbitration of an Officer, to be appointed by the General Manager, B.H.E. Ltd., in his sold discretion whose decision shall be final and binding.

**WITNESS**

Signature of the Contractor

Date :

1. ....

2. ....

**GENERAL SUMMARY**

1.	(a) Net Cost of works or building etc., from Schedule 'A' and Bill of quantities annexed thereto	Rs.
2.	Provisional sum	Rs.
	Total	..... Rs. .....

Rupees.....  
.....

.....Shri.....

in the capacity of ..... has  
been duly authorized by me / use to sign the tender for and on behalf of

.....  
.....

( in block letters )

Date :

SIGNATURE OF CONTRACTOR

Witness :

Postal Address :

1.....  
Address

Telephone No.

2. ....  
Address

..... alternations have been made in the Tender Document and as evidence that these alternations were made before the execution of contract agreement, they have been initialed by the Contractor and the

.....  
.....  
.....

..... is hereby authorized to sign and initial on my behalf the documents forming part of this contract (Number of alternation in figures and words to be given me )

The above tender is accepted by me on behalf of the Bharat Heavy Electricals Limited, Unit Thriuverumbur, Tiruchirappalli – 620 014. for a sum of Rs.. .....

.....  
.....  
.....

at the item rates as indicated in the Bill of Quantities attached to Schedule 'A'.

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

Designation .....