

# **Bharat Heavy Electricals Limited**

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

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

**Name of work** : Modifications of Building 119 and extension with structural steel shop for Dust-free Tube Bundle manufacturing shop at BHEL Trichy.

**Value of work** : Rs.112.58 Lakhs + Applicable service tax

**Tender Notice No.** : CF:TN:026/16-17

**Tender Schedule No.** : CF:TS:049/16-17

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

**EMD** : Rs 2,25,200.00/-

**Issued to** :

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

**PREAMBLE**

01. The scope of work includes **Modifications of Building 119 and extension with structural steel shop for Dust-free Tube Bundle manufacturing shop at BHEL Trichy as detailed below.**
- I. The existing Building 119 shall be modified to suit the requirements such as dust free environment as shown in drawing.
    - a) Provision of Aluminum partition across the building as shown in drawing.
    - b) Demolition of Brick walls inside the building
    - c) Removal of sliding windows & fixing of fixed windows.
    - d) Providing false ceiling
    - e) Dismantling of vessel washing & cooking area shed
    - f) Removal of building outer wall in the eastern side
  - II. a) Construction of structural building (19.32 m X 25.36 m ) with roof/Side sheets and crane rails to support 3 T capacity EOT Crane as shown in drawing.
    - b) Construction of around RCC/Brick wall all around the building to meet the requirements
    - c) Construction of cable trenches
    - d) Flooring in level with the existing bldg.
    - e) False ceiling
  - III . Two Nos. of RCC Roof Buildings for Air Handling Unit shall be constructed by the sides of Building 119 as shown in the drawing.
2. Time is the essence of the contract. Being a time bound works, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **6 months**, works shall be completed progressively and handed over as per agreed split up schedule.
  3. The tender value excludes cost of Cement, Reinforcement steel, Structural steel & Rail which will be supplied by BHEL at Stores at free of cost as indicated in Schedule B of the Tender document.
  4. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract does not vary more than 20%. 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%.
  5. **Quoted percentage rate for all items shall be firm throughout the contract period of 6 (Six) months including extended period if any and no cost escalation is allowed on any account.**
  6. 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.
  7. The item rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete.

The rate quoted shall not include service tax. However the service tax as applicable for this contract work can be claimed from BHEL along with their monthly bills for further payment to be made to the authorities concerned. The contractor has to submit the service tax payment challan as a documentary proof of having paid the service tax for the previous bill for which he has received the service tax payment along with the subsequent bill for which payment has to be processed.

The L1 position based on the quoted values ( subject to calculations) excluding service tax, will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the service tax criteria for the vendors who had participated in the tender. In case of exemption from the payment of service tax, the contractor has to submit a declaration along with necessary documents to substantiate the declaration.

8. The tenderers are advised to visit BHEL Factory at Tiruchirappalli and get themselves acquainted with the site conditions before submitting the offer.
9. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of BHEL. In such case, it is to be carried out in the presence of BHEL officials or their authorized persons.
10. The value of turnover and the value of similar works mentioned above excludes cost of cement, reinforcement steel and structural steel. However if the turnover value furnished by the tenderer includes the above materials, then the tenderer has to furnish the cost of the same separately. If it is not furnished, the materials cost will be presumed as follows: -

Civil & structural works combined	- 50 %
Civil works alone	- 35 %
Structural works including cloaking items	- 70 %
Other minor maintenance works	- 20 %

11. The work shall be carried out as per drawings released then and there, AWS / BIS specifications, standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the bill of quantities provided in the Price Bid. **Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided. (From page No. 12 to 26) of Price bid.**
12. For any item of work not covered in Bill of Quantities, the rate will be arrived at based on the conditions given in BHEL General Conditions of Contract in force.
13. The percentage rate offered is for finished item of works and shall provide for the complete cost fuel, tools, tackles, plant & machinery, temporary works, labour, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colony Establishment, services, revenue expenses, overheads, profits & all other incidentals etc., complete.
14. **New Taxes / Levies**  
In case the Government imposes any new levy / tax on the output service / goods / work after award of the contract, the same shall be reimbursed by BHEL at actual. In case any new tax / levy / duty etc. becomes applicable after the date of Bidder's offer, the Bidder / Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same **before opening of Price Bid**. Claim for any such impact after opening the Price Bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
15. After award of work the contractor has to furnish the security deposit, as per Clause 13 of Tender Notice, attached in the Tender Document. Also it is to be noted that after award of work the contractor has to furnish 50 % of security deposit before the commencement of work.
16. For any clarification on the tender document, the bidder may seek the same in writing or through email, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
17. The contractor should bring the construction earth moving machineries like 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 at site for the works as and when required.
  - a) Precise Leveling instruments and theodolite.
  - b) Full load mixture machine / mini batching
  - c) Petrol / Kerosene driven vibrator/ mechanical vibrator
  - d) Cube moulds
  - e) Inter carting vehicle (tractor, hand trolley etc)

- f) Hydra cranes
- g) Power operated winches
- h) Mobile / Hydraulic crane
- i) Welding machine etc.

18. The contractor has to arrange sufficient number of lorries to collect & transport the surplus earth, construction debris generated, etc. at site. Otherwise BHEL would clear the debris at the contractor's risk and cost.
19. In the event of any conflict between requirement of any clause of this specification / documents / drawings / data sheets etc. or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error / missing pages / other clerical errors in the tender documents, noticed must be pointed out before submission of offer, else BHEL's interpretation shall prevail.

## 20. Order of Precedence

In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

- a. Amendments / Clarifications / Corrigenda / Errata etc issued in respect of the tender documents by BHEL
  - b. Notice Inviting Tender (NIT)
  - c. Price Bid
  - d. Qualification Bid
  - e. General Conditions of Contract
21. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
22. **The following eligibility criteria shall be complied to fulfill the Qualification Bid:-**
- A) The tenderer should have ESI, EPF, PAN, Service Tax Registration No., proof of having submitted IT returns acknowledged by IT office, Profit & Loss account and balance sheets certified by the auditor for the three financial years (2013-14, 2014-15 & 2015-16)**
  - B) Average Annual financial turnover during the last 3 years, ending 31<sup>st</sup> March of the previous financial year, should be at least 30% of the estimated cost.**
  - C) Experience of having successfully completed similar works during last 7 (Seven) years ending last day of month previous to the one in which applications are invited should be either of the following**
    - I. Three similar completed works costing not less than the amount equal to 40% of the estimated cost. (or)**
    - II. Two similar completed works costing not less than the amount equal to 50% of the estimated cost (or)**
    - III. One similar completed works costing not less than the amount equal to 80% of the estimated cost.**
  - D) Experience of having successfully completed at least One Structural works like Shed, Steel Structures etc costing not less than the amount equal to 30% of the estimated cost, during last 7 (Seven) years ending last day of month previous to the one in which applications are invited.**
  - E) Latest Solvency certificate (obtained within 6 months from the date of tender opening ) from Nationalised / Scheduled Bank shall be at least for a value of 40 % of the estimated cost.**
23. Documentary evidences (Xerox copies – Gazetted officer attested & self-attested) for turnover, works experience, EPF, ESI, Service tax and Balance sheet ,Profit & Loss account & IT returns for the last three years etc., all as required & indicated in the tender document should be furnished, without which it

will not be taken into account. The tenderers shall produce original document for verification if so decided by BHEL.

24. The norms for qualification with prescribed score is attached in the Qualification Bid Document. Evaluation will be done accordingly. Minimum score required for qualification is 60.
25. The contractor may be required to undertake works at remote places and in such cases the contractor should make own arrangement for safety of BHEL materials, water required for the work and power etc without extra claim from BHEL.
26. The contractor has to carryout the work in production shops without affecting the production by planning such work on holidays / obtaining proper shut down.
27. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
28. The works executed in the own name of the tenderer only will be considered for eligibility criteria.. **The nominated committee may also visit the works executed by the contractor / tenderer to ascertain the nature of work relating to similar works before qualifying.**
29. The contractor shall strictly adhere to various labour laws in force.
30. **The tenderer has to ensure payment of Minimum Wages as per Tamil Nadu State Minimum Wages as applicable under law from time to time.**

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

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

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

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

**At present the Tamil Nadu State Government Minimum wages declared is enclosed for your reference ( Ref. Page No.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.**

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

31. The contractor shall ensure compliance of EPF&MP Act 1952, by the subcontractors , if any engaged by the contractor
32. The contractor shall follow norms of BHEL security system for movement of men including bio-metric system & materials within the complex.
33. **The offers of the tenderer / bidders who are on the banned list and also the offer of the bidders who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com ---> Tender Notification - List of Banned Firms )**
34. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the contractor, the contractor should ensure that no work is done without the presence of contractor's representative at the work spot. The contract should arrange for surveying construction site wherever required at his own cost.

35. BHEL reserves its right to reject the offer on account of unsatisfactory past performance by the present tenderer / his group / group of companies / any member in the consortium in case of consortium in another project / sister unit awarded under different enquiry. The tenderer has to declare the facts of performance with his customers and their contact details with phone & e-mail ids in his letter head. BHEL reserves its right to cancel the tender without assigning any reason.
36. Bank Guarantee format and the list of consortium banks are enclosed for BG submission against Security Deposit
37. Tenderers are requested to furnish the duly filled in E format (attached as separate in the Qualification Bid) sheet along with a cancelled cheque leaf to accept Electronic Fund Transfer / R T G S transfer for any payment from BHEL, Trichy.
38. 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.
39. 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.
40. 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.
41. The contractor should establish his own site office, labour colony, fabrication yard, handling facility, storage facility etc., for which vacant land will be allotted on specific request for which the rent will not be collected.
42. 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:
 

Planning Engineer and co-ordinator	-	1 No.
Qualified Surveyor	-	1 No.
Civil Engineer (Graduate in Civil Engineering)	-	1No.
Supervisor/Engineer (Diploma Holder)	-	1No..

In addition to the above, Quantity surveyors have to be engaged to prepare measurements and submit the bills.
43. 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.
44. 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.
45. Expertise 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.
46. Exclusive Stores personnel should be engaged who would co ordinate with department official for clearance and collection of BHEL supplied materials required for works. Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of Factory Complex.
47. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
48. All the works shall be executed as per the standard specifications as provided in TNBP / BIS and special specifications of manufacturer.

49. All the materials to be used in the work and the nature of work shall conform to the respective TNBP & BIS and National Building Organization, Standard Specifications forming part of "ALL INDIA STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-charge before actual incorporation in the work.
50. 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.
- 51. The contractor should use only the materials of brand and quality as approved by BHEL.**
52. All materials and consumables brought by the contractor should have manufacturer's certificate.
53. 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.
54. The contractor should maintain proper accounts for cement, reinforcements, Structural steel and other materials if any supplied by this organization and these should be available at the site of work for verification and check by the Officials of this Organization at any time.
55. 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.
56. 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.
57. 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.
58. 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.
59. 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.
60. 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.
61. The contractor should extend fullest co-operation with the third party agencies engaged, if any by BHEL to adhere the Quality Control Procedures ensuring quality.
62. 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.
63. On the written request from the contractor **Water required for the work may be provided by this organization at only one point at the site of the work at free of cost.** In case of failure of water supply, the Contractor will have to make his own arrangements for water without any extra claims until supply is restored. BHEL does not accept any liability whatsoever for non-supply or delay in the supply of water under any circumstances. The contractor shall ensure that there is no wastage of water otherwise supply of water is liable to be stopped at contractor's risk and cost.

64. 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.
65. On the written request from the contractor **Compressed air for the work will be provided by this organization at only one point near the site of work at free of cost.** The contractor should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jackhammer with silencer wherever BHEL is not in a position to supply compressed air.
66. **Bank Guarantee format can be obtained after award of work by the successful tenderer.**
67. Field quality plan issued by BHEL should be strictly followed.
68. Tenderers are requested to furnish the duly filled in E format attached **with this** 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.
69. No advance / No mobilization advance will be given and the part-payment or advance for raw materials brought by the successful tenderer will not be paid. The payment for the finished items of works only will be paid after incorporating the required raw materials into the work, if any.
70. No Over Run Charges shall be applicable under any circumstances.
71. LD / Penalty clause is applicable as per General Conditions of Contract in force.
72. 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.
73. In all matters of dispute, the decision of General Manager BHEL, Tiruchirappalli 620 014 is final and binding on the successful tenderer
74. Any claim or dispute arising from the tender stage, till/after completion of the work under the terms and conditions stipulated in the tender document/contract agreement shall only be enforced or settled in the courts at Tiruchirappalli, TamilNadu only.
75. **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.
76. 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.
77. 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.

78. 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.
79. 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.
80. If, in case of opening of price bids, when there is a Tie in the percentage rates quoted by the tenderers, the ranking will be decided based on Lot System, in the presence of the bidders who witness the price bid opening.
81. MSE vendors can avail EMD / Tender Document cost waiver benefits only if they submit along with the offer, attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format shown below). **Tenders without EMD / Tender Document cost / MSME proof will be summarily rejected.**

**Certificate by Chartered Accountant on letter head**

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

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

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

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

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

Or

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

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

Place:  
Date:



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

**CIRCULAR**

No. BHEL: HR: WEL: MW

Date: 31.03.2016

**ALL CONTRACT EXECUTING/AWARDING OFFICIALS**

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

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

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

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

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

**Cc:**

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

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

**Name of Work: Modifications of Building 119 and extension with structural steel shop for Dust-free Tube Bundle manufacturing shop at BHEL Trichy.**

I / We \_\_\_\_\_ have read the condition of tender attached hereto and agree to abide by such conditions. I/We offer to execute the works in **T.S No. CF:TS:049/16-17 for a period of 06 (Six) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended **below from Page 12 to 26**

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carryout all works according to the specifications for materials and works of Bharat Heavy Electricals Limited, Tiruchirapalli-620 014. In case of acceptance of the tender by the BHEL, I/We bind myself/ourselves to execute the contract documents within 7 days after notice that my/our tender has been accepted and this contract has been awarded to me/us and thus failing which I/We shall have no objection to the forfeiture of the Earnest Money amount to **Rs.2,25,200/-** lodged with Bharat Heavy Electricals Limited, Tiruchirapalli-620 014.

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

**Note:** Details & Quantities of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is appended below. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the overall percentage quoted by the contractor **Below (100-X) % / At par (100%) / Above (100+X) %** of the rates provided in Bill of Quantities appended below from **Page 12 to 26**

Sl. No.	Approx. Value of work	Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % to be quoted with respect to the rates provided in Bill of Quantities appended below from Page 12 to 26	
		In Figures	In Words
1.	<b>Rs. 11258152.92 = 100%</b>		

**Note: BHEL estimate rates are given below. Contractor has to quote Common single percentage rate, Below (100-X) % / At par (100%) / Above (100+X) % with respect to the rates provided in Bill of Quantities below at page 11 both in figures and in words.**

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

**BILL OF QUANTITIES**

**Name of work : Modifications of Building 119 and extension with structural steel shop for Dust-free Tube Bundle manufacturing shop at BHEL Trichy**

<b>Sl. No</b>	<b>QTY</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (Rs.P)</b>	<b>Amount (Rs.P)</b>
1		Dismantling / removing / demolishing as the case may be of the following by manually/mechanical means and carefully stacking the serviceable materials at site of work or conveying and handing over the same at BHEL stores and disposal of unserviceable materials by transporting and dumping in the near by low level areas within a lead of 100 meters. All as per instructions of Engineer-in-charge.			
a	72.00	Brick work in cement mortar	cum	536.51	38628.72
b	12.00	Stone rubble masonry in cement mortar	cum	640.17	7682.04
c	10.00	Plain Cement Concrete.	cum	391.72	3917.20
d	10.00	RCC works including stacking of steel bars by manual/mechanical means.	cum	927.77	9277.70
e	2.00	RCC or PCC (Using jack hammer only for pockets )	cum	1618.73	3237.46
f	80.00	Precast concrete or stone slabs in walls, partition walls etc (Thickness upto 40 mm)	sqm	78.92	6313.60
g	15.00	Precast concrete or stone slabs in walls, partition walls etc (Thickness above 40 mm upto 75 mm)	sqm	118.18	1772.70
h	30.00	RCC louvers / RCC jally	sqm	154.65	4639.50
l	56.00	Tile work in floors and roofs laid in cement mortar	sqm	28.03	1569.68
J	40.00	Doors / Windows / Ventilators (steel or wood) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sqm & below	each	111.45	4458.00
K	30.00	G.I / PVC pipe lines of various dia including all specials.	meter	10.93	327.90
l	160.00	G.I / Aluminium sheets / Aluminium Zinc alloy coated sheets from roofs and side cladding including ridges, valleys, gutters etc	sqm	49.88	7980.80

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
m	5.00	Steel structures / steel works in built up sections including bolts, nuts, cutting rivets, welding, dismembering, preparation of DODL etc	MT	1567.28	7836.40
n	15.00	Barbed wire / flexible wire rope in fencing	kg	9.56	143.40
2		Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge.			
a	150.00	All kinds of soil except rock	cum	127.28	19092.00
b	50.00	Ordinary rock	cum	204.08	10204.00
c	50.00	Hard rock (blasting prohibited)	cum	415.60	20780.00
3		Earthwork excavation (TRENCHES) in soils given below by mechanical means (Hydraulic excavator)/manual means and depositing the excavated earth at suitable places within the initial lead of 50 meter and initial lift of 1.5 meter for foundation in building works, roads, narrow drains, sewers, bridges, pipe lines etc., sectioning the subgrade to proper level and grade, watering and consolidating the subgrade to receive concrete bed, all as per standard specifications and instructions of Engineer-in-charge. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc.		0.00	
a	100.00	All kinds of soil except rock	cum	140.03	14003.00
b	50.00	Ordinary rock	cum	224.47	11223.50
c	30.00	Hard rock (blasting prohibited)	cum	457.13	13713.90
4		Earth work for Open excavation ( exceeding 30 cm in depth, 1.5 m in width as well as 10 sqm on plan) in soils given below by mechanical means (Hydraulic excavator)/manual means including disposal of earth at suitable places within a lead upto 50 meters and lift upto 1.5 meter, sectioning the sub-grade to proper level and grade. Disposed soil are to be leveled and neatly dressed. Rate also includes bailing or pumping out water during excavation due to subsoil water, rain etc.			
a	800.00	All kinds of soil except rock	cum	180.20	144160.00
b	150.00	Ordinary rock	cum	190.77	28615.50
c	100.00	Hard rock (blasting prohibited)	cum	405.63	40563.00

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Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
5		Extra for every additional lift of 1.5 metre or part thereof in			
a	700.00	All kinds of soil Excluding Rock	cum	32.83	22981.00
b	100.00	Ordinary or hard rock	cum	58.89	5889.00
6	60.00	Supply and filling with river sand in foundation, plinth, under floor etc. including watering, ramming, consolidating and dressing complete	cum	508.88	30532.80
7	970.00	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	79.83	77435.10
8	300.00	Clearing jungle including uprooting of rank vegetation, grass, brushwood, trees and saplings of girth upto 30 cm measured at a height of 1 metre above ground level and removal of rubbish upto a distance of 50 meter	sqm	4.55	1365.00
9	20.00	Hire charges for engaging earth moving machinery (Hydraulic Excavator) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc. of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.	Hour	1112.98	22259.60
10	120	Providing and laying in position plain cement concrete of 1:4:8 with graded stone aggregate 20 mm nominal size including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering.	Cum	2142.28	257073.60
11	100.00	Providing and laying in position machine batched, machine mixed and machine vibrated design mix of reinforced cement concrete of M-25 Grade reinforced cement concrete for all work in foundation, basement and upto Floor V level. for structural elements using 10 to 20 mm hard broken granite stone jelly, excluding cost of centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge.	cum	2769.35	276935.00
12	50.00	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 centring, shuttering, finishing and reinforcement but including admixtures in recommended proportions (as per IS:9103) to accelerate, retard setting of concrete, improve workability without impairing strength and durability, all as per directions of Engineer-in-charge. M-20 Grade reinforced cement concrete. All work in foundation, basement and upto Floor V level.	cum	2760.80	138040.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
13	10.00	Providing and laying in position specified grade of Reinforced cement concrete, of Mix 1:1.5:3 with graded stone aggregate 20 mm nominal size for all works upto plinth level including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement.	cum	2189.89	21898.90
14	10.00	Providing and laying in position specified grade of Reinforced cement concrete, of Mix 1:1.5:3 with graded stone aggregate 20 mm nominal size above plinth to floor five level including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement.	cum	2807.85	28078.50
15	20.00	Providing and laying in position specified grade of Reinforced cement concrete, in mix 1:2:4 with graded stone aggregate 20 mm nominal size for all works upto plinth level including vibration charges, curing etc. complete but excluding cost of centring, shuttering, finishing and reinforcement.	cum	2261.83	45236.60
16	20.00	Encasing rolled steel sections in beams and columns in cement concrete in mix 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	4126.63	82532.60
17	20.00	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	7527.18	150543.60
18		Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level.			
a	200.00	Foundations, footings, bases of columns, equipment foundations, precast slabs, kerbs etc. for mass concrete.	sqm	169.27	33854.00
b	600.00	Walls (any thickness) including attached pilasters, plinth, stairs, chimney, shafts and string courses etc.	sqm	295.09	177054.00
c	90.00	Suspended floors, roofs, landings, balconies, access platform and sunshades.	sqm	327.47	29472.30
d	20.00	Lintels, beams, plinth beams, girders, bressumers and cantilevers	sqm	256.49	5129.80
e	60.00	Columns, pillars, piers, abutments, posts and struts.	sqm	376.09	22565.40
f	10.00	Pockets or holes in foundations for holding down bolts.	sqm	687.27	6872.70
19	100.00	Extra for additional height in centring, shuttering wherever required with adequate bracing, propping etc. including cost of de-shuttering and de-centring at all levels, over a height of 4.5 metre for every additional height of 1 metre or part there of. For suspended floors, roofs, landing, beams & balconies (Plan area to be measured)	sqm	167.20	16720.00
20	50.00	Providing and fixing RCC precast perforated lawn drain cover slabs of 75 mm thick in mix 1:2:4 using graded stone aggregate 10 mm nominal size including moulding, shuttering, finishing, carrying and fixing in position etc., complete. Rate excludes reinforcement steel & fabrication charges.	sqm	268.08	13404.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
21	10.00	Providing and filling in position of bitumen mix filler of proportion 80 Kg of hot bitumen, 1 Kg of cement and 0.25 cubic metre of coarse sand for expansion joints.	Cum	15682.90	156829.00
22	10.00	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	414.84	4148.40
23	100.00	Precasting and fixing in position of RCC cable trench cover slabs of 69mm thick in mix 1:2:4 using graded stone aggregate 12 mm nominal size with top 15 mm thick finished with hardening compound of proportion one part of ironite or equivalent, four parts of cement and eight parts of 6 mm gauge hard granite stone chips (the proportion being by weight) including welding reinforcement rods to the frame work, all as per drawing, specifications and instructions of Engineer-in-charge but excluding cost of M.S frame work which will be paid separately. Reinforcement rods and M.S frames will be supplied by BHEL at stores at free of cost	sqm	550.07	55007.00
24	130.00	Random rubble masonry in Cement Mortar 1:5 in foundation and basement including simultaneous flush pointing, all as per standard specifications.	cum	1796.50	233545.00
25	160.00	Brick work with F.P.S bricks ( second class ground moulded chamber bricks ) of class designation 50/75 in foundation and plinth in Cement Mortar 1:5	cum	3764.00	602240.00
26	160.00	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes	cum	274.45	43912.00
27	2.00	Extra charges for providing half brick masonry, brick on edge walls, fins, balustrade etc. over and above the brick work rates.	cum	301.11	602.22
28	4.00	Providing best wooden frames in Teak Wood for doors, windows, ventilators and other frames, wrought framed and fixed in position. All as per standard specifications and drawings. Rate includes cost of wood, holdfasts, other materials, labour etc. complete.	cum	110315.74	441262.96
29	15.00	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden In Teak wood (single leaved shutter) door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings.	sqm	3415.74	51236.10
30	5.00	Manufacture, supply and fixing in position of 35 mm thick fully panelled best wooden In Teak wood (Double leaved shutter) door shutters. All as per standard specifications & drawings. (Excluding door frame) Rate excludes furniture fittings.	sqm	3319.67	16598.35

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
31		Supply & fixing the following furniture fittings of approved brand & quality (ISI marked) in the appropriate position of doors, windows, ventilators, cupboards etc. with appropriate screws, nails etc., all as per standard specifications & instructions of Engineer in charge.			
a	10.00	Hydraulic door closer - universal type ( Heavy duty)	each	1524.78	15247.80
b	5.00	Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles	each	498.21	2491.05
c	20.00	D type Anodised Aluminium handle - 125 mm	each	36.17	723.40
d	5.00	250 x 12 mm Anodised Aluminium aldrop	each	142.51	712.55
e	2.00	150 x 11/12 mm Anodized Aluminium tower bolt	each	65.67	131.34
f	10.00	200 x 11/12 mm Anodized Aluminium tower bolt	each	100.17	1001.70
g	30.00	150 mm oxidised iron butt hinges (Heavy duty)	each	43.96	1318.80
32	70.00	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, 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.	MT	12517.74	876241.80
33	70.00	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	6746.58	472260.60
34	2.00	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	7639.34	15278.68
35	2000.00	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 but excluding raw steel sections which will be supplied by BHEL at Stores at free of cost.	kg	28.53	57060.00

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36	2000.00	Providing holding down Bolts in all sizes & length including required sizes of 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.	kg	86.15	172300.00
37	500.00	Conveying all types & sizes of holding down bolts, nuts, washers etc. from BHEL Stores to site of work and fixing in proper level, line, alignment etc., all as per drawings and instructions of Engineer-in-charge. Rate excludes cost of bolts, nuts, washers etc.	kg	23.83	11915.00
38	12.00	Supply and fixing rolling shutters of approved make, made of 80 x1.25 mm M.S laths with 1.25 mm thick top cover interlocked together through their entire length and joined together at end by end locks mounted on specially de-signed pipe shaft with brackets, side guides and arrangements for inside and outside locking with push and pull operation etc. Complete including cost of providing and fixing necessary 27.5 cm long wire springs grade No.2 and M.S top cover of required thickness for rolling shutter.	sqm	1935.22	23222.64
39	6.00	Providing and fixing ball bearing for rolling shutters.	each	418.18	2509.08
40	12.00	Extra for providing mechanical device chain and crank operation for operating rolling shutters Exceeding 10.00 SQM and upto 16.80 SQM in area	sqm	637.69	7652.28
41	30.00	Providing polyester sun control film of approved brand (GARWARE or equivalent) and shade to glazed panels in doors / windows / ventilators / partitions etc.with proper adhesive, all after removing the existing damaged film if available etc. complete. All as per instructions of Engineer in charge. Rate includes cost of all materials, scaffolding charges, labour, all other incidentals etc., complete . Non reflective Type - Regular grade	sqm	425.11	12753.30
42	3.00	Collection from BHEL stores and transporting of rails CR 80/R 45 etc to the contractor's site fabrication shop, straightening the rails using Gim screw or any other equipments, preparation of edge for welding the rail joints as per drawing and erecting in position at all elevations ( i.e, in floor or over the girders ) using cup type rail clamps with fittings. The scope includes rail alignment after erection, fixing in position, welding the joints by using approved electrode (E 11018 for CR 80 & E7018 for R 45 rails), pre heating & post heating the joints, grinding the joints neatly etc as per drawings and instruction of Engineer in charge.Rate shall include cost of providing one coat of red oxide primer as per IS specification and supply of DODL's for BHEL approval in compact disc with two copies of print outs. Quoted rate shall also include cost of consumables, hire charges for tools and plants, labour and incidentals etc complete but exclude cost of rails which will be supplied by BHEL at free of cost.	MT	11635.70	34907.10

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
43	2.00	Welding of 90 Lbs/CR 80 rail joints erected already in alignment in crane girders/gantry girder upto +14.00 meter including edge preparation, preheating welding using special type electrode (Elec grade 11018). The rate includes all labour charges, electrodes and incidental charges for dismantling the rail from its original position, edge preparation, preheating, welding, post heating as per the instructions of BHEL Engineer in charge. Also include cost of consumables for pre heating and post heating and labour charges for re fixing the 90 Lbs/CR 80 rail to alignment, level after welding etc., complete.	Joint	2195.91	4391.82
44	100.00	Supply and fixing cup type rail clamp with fittings over the insert plate which is embedded in the concrete. Rate includes welding including cost of consumables, all labour and other incidentals etc. complete, all as per instructions of Engineer-in-charge	each	255.43	25543.00
45	600.00	Floor finish with 40 mm thick granolithick flooring over the concrete base while it is wet for proper bonding, the bottom 25 mm thick consisting of one part of cement and one part of 6 mm gauge hard broken granite stone chips (the proportion being by volume) and the top 15 mm finished with hardening compound of proportion one part of hardonate (ironite or equivalent) four parts of cement and eight parts of 6 mm gauge blue granite stone chips (the proportion being by weight) including finishing and painting the sides with bitumen etc., complete, all as per standard specifications.	sqm	430.17	258102.00
46	85.00	Providing and laying ceramic glazed floor tiles (of required thickness) of first quality approved make confirming to IS:15622 and in all colours of required sizes in flooring, treads of steps, landings etc., laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 20 mm thick cement mortar 1:4, finished with flush pointing in white cement using appropriate colour pigment etc. complete, all as per standard specifications.	sqm	686.66	58366.10
47	10.00	Providing and laying ceramic glazed wall tiles (of required thickness) of first quality of approved make confirming to IS:15622 and in all colours of required sizes in skirting, walls, risers of steps and dado laid over a bed of cement slurry @ 3.30 Kg/SQM and a backing layer of 12 mm thick cement mortar 1:3 plaster and joined with white cement using appropriate colour pigment etc.complete, all as per standard specifications	sqm	754.60	7546.00
48	20.00	Providing, laying and finishing the top of floor with the best quality Granite slabs 16 to 18 mm thick, polished - Laga red Colour of required sizes over a bed of cement slurry @ 4.40 Kg/SQM and a backing layer of cement mortar 1:4, 20 mm (average) thick, finished with flush pointing in white cement using appropriate colour pigment including rubbing and polishing wherever necessary etc. complete, all as per instructions of Engineer in charge and standard specifications.	sqm	3702.78	74055.60
49	120.00	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	2144.71	257365.20

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
50		<p>Supplying at site of work , hoisting and fixing in position of 0.50 mm thick TCT/0.45 mm BMT 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, at all heights up to (+) 30.00 m with necessary xylan coated self tapping / self drilling screws Confirming to AS 3566-2002 Class 3 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 color coated Aluminum 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 scaffolding, lifeline, fall arrester and other provisions for safety, and all other incidental charges etc., complete.</p> <p>The payment will be made for the actual Covered area only.</p> <p>(1) The Aluminium zinc alloy coated high tensile steel sheets and specials shall be 0.50 mm thick (TCT) (Aluminium around 55%, Zinc around 43%) alloy coated high tensile steel (Yield strength 550 MPA) colour coated rib profile sheets as per ASTM A792M, coating standard as per AS 1397-1933 Conforming to AZM 150 (Min Coating mass of 150 gsm) having cover width of 1000 plus or minus 10mm and over all width of 1060mm of any length to suit site conditions</p> <p>(2) About 90% area of the Aluminium zinc alloy coated high tensile steel sheets shall be colour coated with Light Blue RAL 5012 and 10% of the covered area is of with off white as per instruction of Engineer in charge . All ridge pieces and barge boards are off white.</p> <p>(3) The Aluminium zinc alloy coated high tensile steel sheets shall be Pre- Primed with a Primer of 5µm and finished with a final SMP paint/Super Polyester coat of minimum 20 µm on top surface. A single backing coat of SMP paint/Super Polyester minimum 10µm over primer of 5µm should be applied on reverse side</p> <p>(4) Sheet should have minimum trough depth of minimum 28 mm &amp; at a crest distance of 200mm - 250 mm ± 5 mm</p> <p>(5) Manufacturers of pre coated sheets should be Tata Bluescope /JSW /Bhushan /Ilyods</p>			
a	500.00	Supply & Fixing sheets in roof	sqm	566.41	283205.00
b	150.00	Supply & Fixing sheets in Side cladding	sqm	592.51	88876.50

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
51	10.00	Providing weathering course on top of roof slab with 20 mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thick-ness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.	cum	3097.17	30971.70
52	100.00	Providing weathering course on top of roof slab with one course of split tiles or pressed flat tiles of 17 to 20 mm thick and of approved brand & size, set in cement mortar 1:3 with an admixture of crude oil at 10% by weight of cement, 12 mm thick bedding layer including pointing the tiles with the same oiled mortar etc., complete, all as per standard specifications.	sqm	377.70	37770.00
53	1400.00	Plastering with cement mortar 1:5 12 mm thick as per standard specifications	sqm	94.05	131670.00
54	10.00	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	151.11	1511.10
55	85.00	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications.	sqm	83.07	7060.95
56	85.00	Three or more coats of White washing on surfaces using best shell lime 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.	sqm	10.67	906.95
57	700.00	Three coats of Distempering (A priming coat with approved primer and two coats of distempering) using oil bound washable distemper of approved brand and shade on surfaces including cleaning, brushing, preparing the surfaces even and sand papered smooth in accordance with standard specifications.	sqm	71.38	49966.00
58	20.00	Two coats of Polishing with French polish including a coat of wood filler to give an even sur-face, including cleaning the surfaces of all dirt, dust and sand papered smooth, all as per standard specifications	sqm	182.43	3648.60
59	74.00	Painting one priming coat with approved Red oxide primer over structural steel works in roof structures, columns etc., including preparing the surfaces by thoroughly cleaning oil, grease, dirt and other foreign matters and scoured with wire brushes, fine steel wool scrapers and sand paper, all as per standard specifications.	MT	568.99	42105.26
60	74.00	Two coats of 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.	MT	1599.15	118337.10
61	700.00	Painting with exterior emulsion paint (ACE or any other equivalent and ap-proved brand) of approved shade on surfaces to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc.complete. Three coats (One coat of Primer of approved brand with two coats of Paint)	sqm	75.68	52976.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
62	550.00	Painting with Epoxy paint (two or more coats) on Concrete work at all locations, prepared and applied as per manufacturer's specifications including appropriate priming coat, preparation of surfaces etc.complete.	sqm	98.65	54257.50
63		Providing and fixing G.I pipes and specials (B - Class) of approved brand with G.I fittings and clamps on walls & floors, including cutting and making good the walls & floors etc. complete. (Internal work - exposed on walls)			
a	30.00	15 mm dia nominal bore	meter	148.84	4465.20
b	30.00	20 mm dia nominal bore.	meter	182.12	5463.60
c	30.00	25 mm dia nominal bore.	meter	242.48	7274.40
d	40.00	40 mm dia nominal bore.	meter	349.17	13966.80
64		Providing and laying G.I pipes and specials (B - Class) of approved brand with G.I fittings in trenches (External work) Earth work excavation for trenches and refilling will be paid separately		0.00	
a	40.00	40 mm dia nominal bore.	meter	235.45	9418.00
b	60.00	50 mm dia nominal bore.	meter	293.52	17611.20
65	70.00	Providing and laying PVC water pipes 90 mm OD (6 kg/Sq.cm) and specials conforming to ISS in trenches, joining with proper adhesive as suggested by manufacturers etc. complete. (External work) Earth work excavation for trenches and refilling will be paid separately	meter	213.95	14976.50
66	30.00	Providing and fixing PVC pipes 110 mm OD of 4 K.G / sqcm conforming to ISS including joining with proper adhesive as suggested by manufacturers and suitable clamps for rain water pipes, drainage etc. Rate excludes all specials like shoe, bend, tee, tee with door etc.	meter	228.16	6844.80
67		Providing and fixing PVC moulded fittings / accessories on walls for rain water pipes conforming to IS 13592 Type A including joining with seal rings conforming to IS 5382 and proper adhesive as suggested by manufacturers etc.complete.		0.00	
a	8.00	110 mm shoe	each	102.90	823.20
b	8.00	110 mm bend	each	152.02	1216.16
68		Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked)			
a	4.00	15 to 25 mm nominal bore	each	426.68	1706.72
b	2.00	40 mm nominal bore	each	721.21	1442.42
69	10.00	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) - 15 mm nominal bore	each	210.00	2100.00
70	2.00	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications.	each	184.86	369.72

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
71	700.00	<p>Providing and fixing anodised aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections / appropriate Z sections of approved make conforming to IS:733 &amp; 1285, fixed with rawl plugs &amp; screws or with fixing clips, or with expansion hold fasteners including necessary filling up of gaps at junctions, at top, bottom and sides with required PVC / neoprene felt etc. Aluminium sections shall be smooth, rust free, straight, mitred and joined mechanically wherever required including cleat angle, aluminium snap beading for glazing / panelling, C.P brass / stain-less steel screws, all complete as per architectural drawings and instructions of Engineer-in-charge. (Glazing and panelling to be paid for separately)</p> <p>For fixed portion - Anodised aluminium (anodised transparent or dyed to required shade according to IS 1868, minimum anodic coating of grade AC 15)</p>	kg	305.77	214039.00
72	700.00	Extra for powder coated aluminium (minimum thickness of powder coating 50 micron) sections instead of anodised aluminium sections.	kg	26.71	18697.00
73	50.00	Providing and fixing glazing With float glass panes of 5.50 mm thick in aluminium door, window, ventilator shutters and partitions etc. with PVC/ neoprene gasket etc. complete as per drawing and instructions of Engineer-in- charge. (Cost of aluminium snap beading shall be paid in basic item.)	sqm	959.59	47979.50
74	1800.00	<p>Providing false ceiling at all heights using the following ceiling tiles. The scope of work includes providing and fixing frame of grid size 600 mm x 600 mm or thereabouts using GI sections of main tees of size 24mm x 38mm x, cross tees of size 24mm x 38mm, wall angles of size 19mm x 19mm , sus-pended by hangers of ceiling/ stay angles / G I wires of 2mm x 2 ply of 8' length screwed with suitable bullets of size 45 to 50mmx 8mm size to RCC roof ceiling / steel trusses etc. complete. hangers and height adjustment clips if any shall also to be provided wherever light fixtures / AC grills / diffusers are flush to the ceiling frame work and the ceiling boards have to made alright accordingly. Rate to include cost of all materials involved including suitable fasteners, screws, etc., , labour charges and all other incidentals etc., Complete. All as per standard / manufacturers specifications and instructions of Engineer-in- charge.</p> <p>Arm Gyp- FB Ceiling tiles of Armstrong make of size 595mm x 595mm x 9mm thick or Equivalent GRIHA approved Product.</p>	sqm	1260.75	2269350.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
75	150.00	<p>Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: The bottom 90 cm and top 110 cm of the partition shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced prelaminated (both side) particle board of approved shade with Powder coated aluminium frame work. The middle 120 cm height of partition shall be of glazed using 5 mm thick plain glass and powder coated aluminium frame work of approved quality. The partitions shall be rigidly fixed on floors and walls using 8 mm anchor fasteners including cutting and making good the walls and floors etc complete.</p> <p>FRAME WORK: The frame work shall be with Powder coated aluminium sections with suitable aluminium beadings and rubber gaskets. The bottom member shall be of size 3 3/4" x 1 3/4" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 1/2" x 1 1/2" and 1.28 mm thick (weight 0.754 kg/m). The verticals shall be generally spaced at 0.90 m centers and can be suitably varied at corners, wall junctions etc, without affecting the general elevation. Generally all the vertical sections shall be taken up to ceiling height and fixing the same with RC beams/slabs for better rigidity. Rate includes cost of all materials, labour and other incidentals etc., complete.</p>	sqm	2393.77	359065.50
76	10.00	<p>Manufacturing, supplying and fixing in position of anodised (25 micron) aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge.</p> <p>The around vertical and horizontal outer frame shall be with 4" x 1 3/4" x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 3/4" x 1 3/4" x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 3/4" x 1 3/4" x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos of of 1 3/4" x 1 3/4" x 1.70 mm (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced prelaminated (both side) particle board . Door shall be provided with 2 Nos. of 300 mm long anodized aluminium handle, One No. of ISI marked heavy duty door closer of approved brand, One No. 200 mm long anodized aluminium tower bolt, suitable lock (4 lever), required top and bottom pivots, all as per specification of Engineer in charge. Rate includes cost of all materials, labour and other incidentals etc., complete</p>	sqm	3202.90	32029.00
77	100.00	<p>Supply and fixing the following boards/sheets of approved brand &amp; quality in panelling fixed in aluminium doors/window shutters/partition frames etc. with C.P brass/stainless steel screws etc. complete, all as per drawings, specifications and instructions of Engineer in charge. Rate includes cutting to required sizes, wastages etc.complete. Rate excludes cost of respective frame works Pre laminated (both sides) particle boards - 9 mm thick - (Emotive or Equivalent)</p>	sqm	545.21	54521.00

Sl. No	QTY	Description	Unit	Rate (Rs.P)	Amount (Rs.P)
78	2.00	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 required for the work etc., complete except cement which will be supplied by BHEL at stores at free of cost.	cum	16189.46	32378.92
79	4.00	Grouting the H.D bolts, underneath the base plates etc., after alignment with non-shrink high strength cementitious grout of such as Tec. Grout 40 or Pidigrout 10M or Flogrout 60 or Conbextra GP2 or any other equivalent grout, all as per instructions of Engineer in charge and as per standard specifications. Rate includes cost of non-shrink grout, cleaning the sleeves/pockets, tools, labour etc., complete.	cum	54118.55	216474.20
80		Conveyance of earth, sand, gravel, rough stone, broken stone, brick bats (debris) etc. by contractor's own lorry including loading, leading, unloading, stacking or spreading, all as per instructions of Engineer-in-charge. Payment for conveyance of earth will be made based on pit measurement and for other items based on stack measurements.		0.00	
a	360.00	0-1 Km	cum	115.35	41526.00
b	150.00	Beyond 1 Km but upto 2 Km	cum	123.09	18463.50
81		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 facto-ry 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, level-ing etc. complete. Rate also includes for safe burning of dried leaves, cut pieces of tree branches, wood, waste paper etc., all by following safety pre-cautions. Payment will be made on trip basis with a lorry load of minimum 300 cft./Trip.			
a	20.00	0-1 Km	each	783.89	15677.80
b	5.00	Beyond 1 Km but upto 2 Km	each	836.15	4180.75
82	2000.00	Providing and fixing thermal insulation of ceiling (Under deck insulation) with resin bonded Rockwool conforming to IS 8183,density 48 kg/cum ,50mm thick wrapped in Aluminium foil on exposed surface fixed to ceiling with metallic cleats (50 X 50 X 3 mm) @ 60 cm and wire mesh of 12.5 mm X 24 Gauge wire mesh, for top most ceiling of building.	sqm	461.73	923460.00

<b>Sl. No</b>	<b>QTY</b>	<b>Description</b>	<b>Unit</b>	<b>Rate (Rs.P)</b>	<b>Amount (Rs.P)</b>
83	600.00	Providing & fixing Thermal insulation with resin bonded Rockwool confirming to IS 8183,density 48 kg/cum ,50mm thick wrapped in Aluminium foil on exposed surface placed over existing false ceiling and held in position by criss crossing GI wire.	sqm	258.13	154878.00
		<b>Grand Total(Excluding Applicable Tax)</b>			<b>11258152.92</b>

## SCHEDULE 'B'

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

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

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

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

## **SCHEDULE 'C'**

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

Sl.No.	Qty.	Particulars	Details of BHEL Crew Supplied	Hire Charges Per unit Per Day	Place of Issue	Remarks
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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-02093	GA of Proposed Modifications for ATP Dust Free Room in New Canteen

The above drawing is enclosed in the Price Bid.

## **SCHEDULE 'E'**

### **LEAD STATEMENT**

Sl.No.	Name of Material	Name of Source	Lead Particulars both for Factory and Township
1	Cement	BHEL Stores	2 Kilometre
2	M.S Rounds, C.T.D Bars & Structural Steel, rails and all railway materials	BHEL Stores	2 Kilometre

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

## AUTHORITY TO TENDER

Tender Notice No.CF:TN: **026/16-17**

Office of the

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

Tender Schedule No.CF:TS: **049/16-17**

~~Lumpsum / Percentage rate / Item rate~~ tender for works required in in  
**“Modifications of Building 119 and extension with structural steel shop for  
Dust-free Tube Bundle manufacturing shop at BHEL Trichy.. .**

**Messrs.** ..... ‘are / is  
hereby authorized to tender for the above work. The Tender is to be delivered at the Office of the  
**DGM/ CIVIL / PLANNING (F&T), 53 Building Ground floor** Bharat Heavy Electricals Limited,  
Thiruverumbur, Tiruchirappalli – 620 014, **up to 14.00 hrs. on 25.04.2017** -addressed to the  
**DGM / Civil / Planning(F&T),Building No.53 Ground floor,** BHEL. Tiruverumbur, Tiruchirapalli –  
620 014 superscribing the name of work as mentioned above.

Any correspondence concerning this Tender should be addressed as indicated above quoting the  
Tender Notice, schedule No. and other relevant particulars.

BHARAT HEAVY ELECTRICALS LIMITED DO NOT BIND THEMSELVES TO ACCEPT THE  
LOWEST OR ANY TENDER

**Issuing Officer with  
Designation**

CONTRACTOR

29

ACCEPTING OFFICER

Contract Agreement No.....

**TENDER**

To

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

I / We hereby offer to carry out the work of **“Modifications of Building 119 and extension with structural steel shop for Dust-free Tube Bundle manufacturing shop at BHEL Trichy.”**

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

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

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

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

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

**WITNESS**

Signature of the Contractor

Date :

1. ....
2. ....

**GENERAL SUMMARY**

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

Rupees.....  
.....  
.....

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

(In block letters)

Date:

SIGNATURE OF CONTRACTOR

Witness:

Postal Address:

1.....  
Address

Telephone No.

2. ....  
Address

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

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

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

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

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

Designation .....