

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

**TENDER DOCUMENT (PRICE BID)**

<b>Name of work</b>	:	<b>Improvement &amp; Modification works for the proposed BHE-ECB branch at No.1 Good Shed Road, Trichy – 2.</b>
<b>Value of work</b>	:	<b>Rs. 9.18 Lakhs + (Applicable Service Tax)</b>
<b>Tender Notice No.</b>	:	<b>CT: TN: 023 / 16 -17</b>
<b>Tender Schedule No.</b>	:	<b>CT: TS: 046 / 16 -17</b>
<b>Period of Contract</b>	:	<b>02 (Two) Months</b>
<b>EMD</b>	:	<b>Rs. 18,365/- (One Time EMD is no more applicable. Hence tenderers who had previously remitted one time EMD shall have necessarily take full amount of EMD in the form of DD)</b>
<b>Issue to</b>	:	<b>M/s</b>

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

**PREAMBLE**

01. The scope of work includes **Improvement & Modification works for the proposed BHE-ECB branch at No.1 Good Shed Road, Trichy – 2.**
  - i. The existing BHEECB branch office is located at Clives Building, Nandhi koil street, Trichy-2. Now this office is proposed to be shifted to the new place located at M/s Tiruchirappalli District Amaravathi Consumers Cooperative Wholesale stores Ltd, No.1, Old Good shed road, Trichy-2.
  - ii. The work involves Civil, electrical as well as removing and replacing the furniture items and MS Grill from old office to the new office, as specified in the Bill of quantities, in three parts.
02. The tender value **includes** cost of all materials, labour, taxes involved in Civil, Electrical, Miscellaneous works etc. The vendor should furnish the materials and execute the work, confirming to relevant latest IS specifications as per instructions of Engineer in charge.
03. Time is the essence of the contract. Being a time bound project, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **2 (Two) months**, the works shall be completed progressively and handed over as per mutually agreed schedule.
04. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (twenty percentage). 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%.
05. **Quoted rate shall be firm throughout the contract period of 02 (Two) months or till completion of work and no cost escalation is allowed on any account.**
06. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.
07. The percentage rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, materials, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, roads, revenue expenses, overheads, profits & all other incidentals etc., complete.

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

The L1 position based on the quoted values (subject to calculations) excluding service tax, will not necessarily mean L1 for a vendor, but the net liability to BHEL, after considering the service tax criteria for the vendors who had participated in the tender. In case of exemption from the payment of service tax, the contractor has to submit a declaration along with necessary documents to substantiate the declaration.
08. The tenderers are advised to visit the sites and get themselves acquainted with the site conditions before submitting the offer.
09. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of BHEL. In such case, it is to be carried out in the presence of BHEL officials or their authorized persons.
10. The work shall be carried out as per 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 Common single Percentage Rate (Below (100-X)% / At Par(100)% / Above(100+X) %) to be Quoted with respect to**

**the rates provided in the Bill of Quantities provided in the Price Bid.** Individual item rates shall be derived based on the quoted common single percentage shall be deemed to be the contracted rates for various BOQ items for all purposes.

11. 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.
12. **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 or tax or reassessment of offer.
13. 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.
14. 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.
15. 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 if necessary. Also required number of the following tools & plants / instruments shall be made available at site for the works as and when required
  - a) Precise Levelling 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.
16. The contractor has to arrange sufficient number of lorries to collect & transport the surplus earth construction debris generated etc. at site. Otherwise would clear the debris at the contractor's risk and cost.
17. In the event of any conflict between requirement of any clause of this specification / documents / drawings/ data sheets etc. of 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.
18. **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.
19. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.

20. **The following eligibility criteria shall be complied to fulfill the Qualification Bid:**
- i) **The tenderer should have EPF, ESI, 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 last 3 (three) financial years (2013-14, 2014-15, 2015-16).**
  - ii) **Average annual financial turnover during the last 3 (three) years ending 31<sup>st</sup> March of the previous financial year, should be at least 30% of the estimated cost.**
  - iii) **Experience of having successfully completed Civil 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.**
    - a) Three Similar completed works costing not less than the amount equal to 40% of the estimated cost.
    - (or)
    - b) Two Similar completed works costing not less the amount equal to 50% of the estimated cost.
    - (or)
    - c) One Similar completed work costing not less than the amount equal to 80% of the estimated cost.
  - iv) **Experience of having successfully completed Electrical 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**
    - a) One similar completed work costing not less than the amount equal to 30% of the estimated cost.
  - v) **Latest Solvency Certificate (obtained within 6 months from the date of tender opening) from Nationalized / Scheduled Bank shall be at least for a value of 40% of the estimated cost.**
21. 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.
22. The norms for qualification is attached in the Qualification Bid Document.
23. 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.
24. The contractor has to carry out all the works on all days except Sundays and BHEL holidays under normal circumstances. However sweeping of all shop floors has to be done in Sundays and BHEL holidays, if required.
25. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.
26. 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.
27. The contractor shall strictly adhere to various labour laws in force.
28. **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)	<b>Unskilled Worker</b>	<b>Rs. 3200 per month</b>
b)	<b>Semi-skilled Worker</b>	<b>Rs. 3700 per month</b>
c)	<b>Skilled Worker / Supervisor</b>	<b>Rs. 4100 per month</b>

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 (Page No. 11). 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.

**Important Note:**

**“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.”**

29. The contractor shall ensure compliance of EPF & MP Act 1952, by the subcontractors, if any engaged by the contractor.
30. The contractor shall follow norms of BHEL security system for movement of men & materials within the complex including biometric system.
31. The offers of the tenderer / bidders who are on the banned list and also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site ([www.bhel.com](http://www.bhel.com) → Tender Notification → List of Banned Firms).
32. 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.
33. 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.
34. Bank guarantee format and the list of consortium banks are enclosed for BG submission against Security Deposit.
35. 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 / RTGS transfer for any payment from BHEL, Trichy.
36. 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.
37. 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.
38. 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 or as required by the department for processing bill.
39. 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.

<b>Min. of Supervisor</b>	-	<b>1 No.</b>
<b>Min. of Graduate Engineer</b>	-	<b>1 No.</b>

In addition to the above, Quantity surveyors have to be engaged to prepare measurements and submit the bills.

40. Adequate number of Quality Engineer and qualified Safety Engineer should be deployed at site.
41. The tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled Mason, Carpenter, Plumber, Welder, fitter, Mistry, Electrician, 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.
42. 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, watersupply, railway track laying and aligning works, sewerage system work etc.
43. Exclusive Stores personnel should be engaged who would coordinate 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 / Township Complex.
44. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force.
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 confirm 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.
47. With regard to specifications not covered by the General and Special Conditions of Contract, those contained in the Tamil Nadu Building Practice Standard Specifications or Electrical specifications approved by Bharat Heavy Electricals Limited, shall apply.
48. **The contractor should use only the materials of brand and quality as approved by BHEL.**
49. All materials and consumables brought by the contractor should have manufacturer's certificate.
50. 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.
51. The contractor should maintain proper accounts for cement, reinforcements, Structural steel and other materials if any and these should be available at the site of work for verification and check by the Officials of this Organization at any time.
52. 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.
53. All safety measures are to be followed during execution of work. 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.
54. 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.
55. 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.
56. 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.
57. The Contractor will have to make his own arrangements for water & electrical energy.

58. **Bank Guarantee format can be obtained after award of work by the successful tenderer.**
59. 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.
60. No over Run charges shall be applicable under any circumstances.
61. LD / Penalty clause is applicable as per General Conditions of Contract in force.
62. 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.
63. In all matters of dispute, the decision of General Manager BHEL, Tiruchirappalli 620 014 is final and binding on the successful tenderer.
64. 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.
65. **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.
66. 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.
67. 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.
68. 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.
69. 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 finalization of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any on going tenders even if participated till the hold is officially lifted and confirmed in writing.
70. 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.

## 71. Deviations

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

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

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

## 72. Arbitration:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions hereinbefore mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in any way arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the Executive Director / General Manager of BHEL and if ED is unable or unwilling to act, to the sole arbitration of some other person appointed by the ED / General Manager, willing to act as such arbitrator. The cases referred to arbitration shall be other than those for which the decision of the Manager / Senior Engineer / Engineer-in-charge is expressed in the contract to be final and conclusive.

There will be no objection if the arbitrator so appointed is an employee of B.H.E.L and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

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

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

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

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

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

The Arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the Parties fixing the date of first hearings.

The arbitrator shall give a separate award in respect of each dispute or difference referred to him.

The venue of arbitration shall be such place as may be fixed by the Arbitrator in his sole discretion.

The award of the arbitrator shall be final, conclusive and binding on all parties to this contract.

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

73. 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.
74. 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

## SCHEDULE 'A'

### LIST OF WORKS AND PRICES

**NAME OF WORK:** Improvement & Modification works for the proposed BHE-ECB Branch at No.1 Good Shed Road, Trichy – 2.

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. CT: TS: 046 / 16 - 17 for a period of 02 (Two) months** at the percentage below / at par / above the rates contained in Bill of Quantities appended below **from Page 13 to 24.**

I / We further agree to sign an Agreement Bond to abide by the General Conditions of Contract and to carry out 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 menus and thus failing which I / We shall have no objection to the forfeiture of the Earnest Money amount to **Rs. 18,365/-** 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 13 to 24.**

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 the Bill of Quantities (all items as enclosed in the Price Bid of the Tender Document) from Page No. 13 to 24.	
		In Figures	In Words
1.	<b>Rs. 9,18,180.35 (= 100%)</b>		

**Note: BHEL estimate rates are given below. Contractor has to quote the overall percentage only {Below (100-X %) / At par (100%) / Above (100+X %) } at page No. 12 both in figures and in words**

**BHEL / TRICHY – 620 014  
CIVIL ENGINEERING DEPARTMENT - TOWNSHIP  
BILL OF QUANTITIES - Part A (CIVIL)**

**Name of work: Improvement & Modification works for the proposed BHE ECB City Branch at No. 1 Good Shed Road, Trichy - 2.**

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
1	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 (rate includes cost of cement)	36	CUM	4685.17	<b>1,68,666.12</b>
2	Extra for Brick work in superstructure above plinth upto floor three level in all shapes and sizes.	35	CUM	306.30	<b>10,720.50</b>
3	Extra charges for providing half brick masonry, brick on edge walls, fins, balustrade etc. over and above the brick work.	1	CUM	336.10	<b>336.10</b>
4	Plastering with cement mortar as per standard specifications. In Cement mortar 1:5, 12mm thick (rate includes cost of cement)	210	SQM	132.84	<b>27,896.40</b>
5	Ceiling plastering with cement mortar 1:3, 6mm thick as per standard specifications. (rate includes cost of cement)	21	SQM	115.65	<b>2,428.44</b>
6	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. Two coats	150	SQM	6.72	<b>1,008.00</b>
7	Distemping 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. Two coats	350	SQM	45.39	<b>15,886.50</b>
8	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 MS/CTD bars, cover blocks, cost of binding wire, conveyance of MS/ CTD bars from BHEL stores to site of work, labour etc. complete.	0.35	MT	41257.23	<b>14,440.03</b>
9	Centring and shuttering including strutting, propping, assembling etc. and re-moval of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Suspended floors, roofs, landings, balconies, access platform and sunshades.	12	SQM	365.47	<b>4,385.64</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
10	Centring and shuttering including strutting, propping, assembling etc. and removal of form work. Upto a maximum height of 4.50 metre of each floor and also upto floor five level. Lintels, beams, plinth beams, girders, bressumers and cantilevers.	15	SQM	286.26	<b>4,293.90</b>
11	Providing false ceiling at all height with 12.5 mm thick tapered edge gypsum board conforming to IS : 2095 including providing and fixing of frame work made of special sections of power pressed from M.S sheet and galvanised in accordance of zinc coating of grade 350 as per IS:277 and consisting of angle cleats of size 25 wide & 1.6 mm thick with flanges of 22 mm and 37 mm at 1200 mm c/c one flange fixed to the ceiling with dash fastener 12.5 mm dia, 40 mm long with 6 mm dia. bolts to the angle hangers of 25 x 25 x 0.55 mm of required length and other end of angle hanger being fixed with nut and bolts to G.I channels 45 x 15 x 0.9 mm running at the rate of 1200 mm c/c to which the ceiling section 0.5 mm thick bottom wedge of 80 mm with tapered flanges of 26 mm each having clips of 10.5 mm at 450 mm c/c shall be fixed in a direction perpendicular to G.I channel with connecting clips made of 2.64 mm dia, 230 mm long G.I wire at every junction including fixing the gypsum board with ceiling section and perimeter channels 0.5 mm thick 27 mm high having flanges of 20 mm and 30 mm long, the perimeter of ceiling fixed to wall / partition with the help of rawl plugs at 450 mm c/c with 25 mm long drive all screws @ 230 mm interval including joining and fixing to a flush finish of tapered and square edges of gypsum board with recommended filler, paper tapes, finisher and two coats of primer suitable for gypsum board as per manufacturers' specification and also including the cost of making openings for light fittings, grills, diffusers, cutouts made with frame of perimeter channels suitably fixed all complete as per drawing, specification and direction of Engineer-in-charge, but excluding the cost of painting.	80	SQM	836.36	<b>66,908.00</b>
12	Manufacturing, supplying and fixing in position of partitions for an approximate height of 3.20 m as detailed below: The bottom, middle and top of the partition (full portion) shall be of wooden, using 9 mm thick interior grade ISI marked (IS : 12823) three layered melamine faced prelaminate (both side) particle board of approved shade with Powder coated aluminium frame work. 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 ¾" x 1 ¾" and 1.70 mm thick (weight 1.312 kg/m). The middle, top and vertical members shall be of size 2 ½" x 1 ½" 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.	8	SQM	2693.19	<b>21,545.52</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
13	Manufacturing, supplying and fixing in position of Powder coated aluminium single leaved/double leaved panelled door of overall size 0.75m x 2.10m or thereabouts with suitable frame work as per the following specification and instructions of Engineer- in- charge. The around vertical and horizontal outer frame shall be with 4" x 1 <sup>3</sup> / <sub>4</sub> " x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos. of 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm thick (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The entire panel 210 cm height 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.	2	SQM	3387.66	<b>6,775.32</b>
14	Manufacturing, supplying and fixing in position of Powder coated aluminium single leaved/double leaved glazed door of overall size 1.00 x 2.10m with suitable frame work as per the following specification and instructions of Engineer- in- charge. The around vertical and horizontal outer frame shall be with 4" x 1 <sup>3</sup> / <sub>4</sub> " x 1.60 mm (unit wt. 1.312 kg/m) sections and for door shutter the bottom member shall be with 3 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm thick (unit wt. 1.312 kg/m) shutter top and verticals shall be of size 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.52 mm thick (unit wt. 0.885 kg/m) and shutter divider shall be 2 nos. of 1 <sup>3</sup> / <sub>4</sub> " x 1 <sup>3</sup> / <sub>4</sub> " x 1.70 mm thick (unit wt. 0.885 kg/m) with necessary beadings and rubber gaskets as per standard specifications. The upper panel of 120 cm shall be with 5 mm thick plain glass and lower panel of 90cm shall be with 9 mm thick interior grade ISI marked (IS:12823) three layered melamine faced 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.	2.5	SQM	3961.02	<b>9,902.55</b>
15	Dismantling from existing branch, carefully transporting the same to the new branch and fixing in position of Glazed aluminium single leaved/double leaved glazed door of overall size 1.40 x 2.40m (approx.) with suitable frame work and to make it fully functional, as per the following specification and instructions of Engineer- in- charge. Rate includes cost of necessary accessories like screws etc.	7	SQM	790.45	<b>5,533.15</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
16	Providing and fixing to existing door frames, 24 mm thick factory made PVC door shutters made of styles and rails of a uPVC hollow section of size 59x24 mm and wall thickness 2 mm ( $\pm 0.2$ mm) with inbuilt edging on both sides. The styles and rails mitred and joint at the corners by means of M.S. galvanized /plastic brackets of size 75x220 mm having wall thickness 1.0 mm and stainless steel screws. The styles of the shutter reinforced by inserting galvanised M.S. tube of size 20x20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The lock rail made up of 'H' section, a uPVC hollow section of size 100x24 mm and 2 mm ( $\pm 0.2$ mm) wall thickness, fixed to the shutter styles by means of plastic / galvanised M.S. 'U' cleats. The shutter frame filled with a uPVC multi-chambered single panel of size not less than 620 mm, having over all thickness of 20 mm and 1 mm ( $\pm 0.1$ mm) wall thickness. The panels filled vertically and tie bar at two places by inserting horizontally 6 mm galvanized M.S. rod and fastened with nuts and washers, complete as per manufacturer's specification and direction of Engineer-in-charge. (For W.C. and bath-room door shutter).	1.8	SQM	2823.73	<b>5,082.71</b>
17	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an overall dimension as below (tolerance $\pm 1$ mm), with wall thickness 2.0 mm ( $\pm 0.2$ mm), corners of the door frame to be Jointed with galvanized brackets and stainless steel screws, joints mitred and Plastic welded. The hinge side vertical of the frames reinforced by galvanized M.S. tube of size 19 X 19 mm and 1mm ( $\pm 0.1$ mm) wall thickness and 3 nos. stainless steel hinges fixed to the frame complete as per manufacturer's specification and direction of Engineer in- charge	3	RM	199.98	<b>599.94</b>
18	Providing and fixing in position of pedestal type water closet (European type W.C pan) 400 mm high of approved brand with seat and lid, C.P brass hinges and rubber buffers, 10 litre PVC low level flushing cistern with fittings and painted C.I / M.S brackets with 15 mm PVC connection, 32/40 mm PVC flush bend with fittings and clamps, over flow arrangement with specials and mosquito proof coupling including painting of fittings & brackets, cutting and making good the walls and floors wherever required etc. complete. White glazed (white seat and lid)	1	EACH	5115.42	<b>5,115.42</b>
19	Providing and fixing in position of white glazed earthenware wash basin of size 550 x 400 x 225 mm of approved brand with M.S or C.I brackets painted with two coats of synthetic enamel paint, single 15 mm C.P brass pillar tap and C.P brass chain with rubber plug, 32 mm C.P brass waste coupling of standard pattern, 32 mm dia. PVC flexible waste pipe etc. complete, including cutting and making good the walls wherever required.	1	EACH	1813.30	<b>1,813.30</b>
20	Providing and fixing 600 x 450 x 5 mm bevelled edge mirror of superior glass (approved brand) mounted on 5/6 mm thick hard board / ply wood / plastic folder sheet, fixed to wooden cleats with C.P brass screws and washers, etc. complete. 600 x 450 x 5 mm bevelled edge mirror	1	EACH	422.33	<b>422.33</b>

<b>Sl. No</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate (Rs. P)</b>	<b>Amount (Rs. P)</b>
21	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) 15 mm dia. nominal bore.	3	RM	166.11	<b>498.33</b>
22	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) 20 mm dia. nominal bore.	2	RM	203.26	<b>406.52</b>
23	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) 25 mm dia. nominal bore.	2	RM	270.62	<b>541.24</b>
24	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) 32 mm dia. nominal bore.	1	RM	327.59	<b>327.59</b>
25	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. PVC Pipe 18/20 mm OD (10 kg/Sq.cm) (internal work - exposed on walls)	2	RM	71.03	<b>142.08</b>
26	Providing and fixing PVC water pipes and specials conforming to ISS on walls and floors with clamps at one metre spacings, joining with proper adhesive as suggested by manufacturers, cutting and making good the wall etc. complete. PVC Pipe 25 mm OD (10 kg/Sq.cm) (internal work - exposed on walls)	2	RM	90.39	<b>180.78</b>
27	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. PVC Pipe 75 mm OD	5	RM	144.60	<b>723.00</b>
28	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. PVC Pipe 110 mm OD	10	RM	254.64	<b>2,546.40</b>
29	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. 75 mm bend	1	EACH	92.48	<b>92.48</b>
30	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. 110 mm bend	2	EACH	169.67	<b>339.34</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
31	Providing and fixing in position of brass wheel valve / gate valve (G.M) of approved brand with C.I wheel etc. complete. (ISI marked) 15 to 25 mm dia. nominal bore	2	EACH	476.19	<b>952.38</b>
32	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 15mm dia. nominal bore	2	EACH	234.37	<b>468.74</b>
33	Providing and fixing in position C.P brass bib cock / stop cock (Medium Duty) of approved brand (ISI marked) 20mm dia. nominal bore	1	EACH	299.53	<b>299.53</b>
34	Providing and fixing in position of 100 x 75 mm Nahani trap with PVC grating, all as per standard specifications.	1	EACH	206.31	<b>206.31</b>
35	Supply and fixing M.S grills for windows, ventilators and also wherever necessary including a priming coat. All according to our design and specification.	65	KG	14.91	<b>969.80</b>
36	Providing and laying in position specified grade of reinforced cement concrete including vibration charges, curing etc. complete but excluding cost of cen-tring, shuttering, finishing and reinforcement. 1:2:4 with graded stone aggregate 20 mm nominal size - 1:2:4 with graded stone aggregate 20 mm nominal size - Above plinth to floor five level. Rate includes cost of cement	5	CUM	5213.95	<b>26,069.65</b>
37	Providing and laying in position plain cement concrete of specified grade including consolidation, curing etc. complete, all as per standard specifications. All works upto plinth level. Rate excludes cost of centring and shuttering. 1:4:8 with graded stone aggregate 20 mm nominal size	2	CUM	3453.38	<b>6,906.76</b>
38	Finishing the top of all floors with 20 mm thick cement concrete (without using sand) in the proportion of one part of cement and three parts of 3 to 10 mm gauge hard broken granite stone chips and finishing the top surface smooth, rounding of corners, curing etc., complete, all as per standard specifications. (Ellis pattern I sort)(rate includes cost of cement)	130	SQM	288.47	<b>37,501.10</b>
39	Drilling holes for the following diameter in Industrial Reinforced cement concrete floor or in machine foundation using power drilling machine in proper manner to a maximum depth of 200 mm as per standard specification and fixing the anchor bolts through the holes provided in the machine with the drilled holes in the shop floor as per the instructions of Engineer in charge. The power and compressed air required for drilling holes will be supplied by BHEL at free of cost. The quoted rate shall include all labour charges for drilling holes only and also include hire and running charges for machineries, tools and plants , loading, leading , conveyance and cleaning the debris etc. complete. 19 – 23 mm diameter	45	EACH	100.16	<b>4,507.20</b>
40	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Doors / Windows / Ventilators (steel or wood) including frame and shutters, holdfasts, hinges, fastenings etc. of area 3 sq. m & below.	12	EACH	124.38	<b>1,492.56</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
41	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engi-neer-in-charge. Steel partitions including bolts, nuts, cutting rivets, welding etc. and dismembering	35	SQM	76.79	<b>2,687.30</b>
42	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 cost of structural steel, 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.	0.25	MT	54296.47	<b>13,124.12</b>
43	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. Weight of fasteners will not be accounted for payment.	0.25	MT	7529.32	<b>1,882.38</b>
44	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. Two coats	25	SQM	76.28	<b>1,907.00</b>
45	Providing and fixing powder coated aluminium two track sliding windows of approved colours aluminium sections of size 60 x 28 x 1.20 mm ( wt 0.656 kg / m ) for outer frame , 38 x 17 x 1.20 mm (0.41 kg / m) for shutter box and 38 x 17 x 1.20 mm (0.44 kg/m) for inter lock 4 mm thick plain glass for panes, PVC wheels, U rubber, screws, locking arrangements etc. complete, all as per instructions of Engineer-in-charge.	3	SQM	3352.20	<b>10,056.60</b>
46	Dismantling the collapsible steel shutters from existing branch, transporting the same and fixing in position at new branch - with vertical channels 20 x 10 x 2 mm and braced with flat iron diagonals 20 x 5 mm size with top and bottom rail of T-iron 40 x 40 x 6 mm with 40 mm dia. (size approx) steel pulleys complete with bolts, nuts, locking arrangements, stoppers, handles, including applying a priming coat of approved steel primer.	5	SQM	338.77	<b>1,693.85</b>
47	Labour charges for fixing doors, windows and ventilators including frames and shutters in position etc. complete.(wood or steel)	5	SQM	134.26	<b>671.25</b>
48	Providing and fixing 100 mm brass lock (mortise latch & lock with six levers) for aluminium doors including necessary cutting and making good etc. complete.	1	EACH	419.39	<b>419.39</b>

Sl. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
49	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. Hydraulic door closer - universal type (Medium duty)	1	EACH	1609.65	<b>1609.65</b>
50	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. Brass Mortice lock 100 mm, 6 levers and a pair of brass lever handles	1	EACH	556.04	<b>556.04</b>
51	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. D type Anodised Aluminium handle - 100 mm	6	EACH	36.02	<b>216.12</b>
52	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. 75 x 11/12 mm Anodized Aluminium tower bolt	10	EACH	43.47	<b>434.70</b>
53	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. 75 x 11/12 mm Anodized Oxidised iron butt hinges 125mm	10	EACH	25.46	<b>254.60</b>
54	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Brick work in cement mortar	1	CUM	598.78	<b>598.78</b>
55	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Stone rubble masonry in cement mortar	2	CUM	714.46	<b>1,428.92</b>
56	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Old plastering / skirting raking out joints / chipping the concrete and roughening the surface	140	SQM	15.98	<b>2,237.20</b>

<b>Sl. No</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate (Rs. P)</b>	<b>Amount (Rs. P)</b>
57	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 and disposal of unserviceable materials by transporting and dumping in the nearby low level areas within a lead of 100 metres. All as per instructions of Engineer-in-charge. Plain Cement Concrete.	2	CUM	437.18	<b>874.36</b>
Total for Part – A					<b>4,99,583.92</b>

**Part - B (MISCELLANEOUS)**

<b>Sl. No</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate (Rs. P)</b>	<b>Amount (Rs. P)</b>
1	'Removing MS safety grill from existing branch, average grid size (25 cm x 9 cm) transporting and fixing the same at new branch as follows - CHEST ROOM IRON GRILL - 3.65m x 2.50m x 2.80 m height approx.	1	LS	60,107.63	<b>60,107.63</b>
2	'Removing the furniture from existing branch and fixing in new branch as follows -CASH COUNTER WITH MODULAR TABLE and ALUMINIUM GRILL – 2 NOS size - 1.80m x 1.25m x 2.20m, COUNTER MODULAR TABLES – 5 NOS - 1.30m x 0.65m x 1.20 m height approx.	1	LS	34,845.00	<b>34,845.00</b>
3	Fixing of Safe vault door of size 4' x 7' height by properly anchoring to the existing wall using MS rods, Flats and packing with concrete all as per directions of Engineer in charge. Door will be supplied and kept ready for anchoring by supplier of BHE ECB .	1	LS	17,422.50	<b>17,422.50</b>
Total for Part B					<b>1,12,375.13</b>

**Part - B (ELECTRICALS)**

<b>Sl. No</b>	<b>Description</b>	<b>Qty.</b>	<b>Unit</b>	<b>Rate (Rs. P)</b>	<b>Amount (Rs. P)</b>
1	Supply and wiring with 3 runs of 1.5sqmm PVC insulated copper wire in 18-20mm dia, 1.8-2mm thickness of PVC conduit pipe including 5A switch with modular suitable size M.S box with necessary accessories for light and fan points, 5A plug points etc.	50	Point	706.21	<b>35,310.50</b>
2	Supply and wiring with 2 runs of 2.5sqmm and one run of 1.5sqmm PVC insulated copper wire with 18-20mm dia. 1.8-2mm thickness of PVC conduit pipe with necessary accessories.	300	Mtr	115.09	<b>34,527.00</b>
3	Supply and wiring with 2 runs of 4 sq.mm and one run of 2.5sqmm PVC insulated copper wire with 18-20mm dia. 1.8-2mm thickness of PVC conduit pipe with necessary accessories.	100	Mtr	136.01	<b>13,601.00</b>
4	Supply and wiring of 1.5sqmm multistrand wire in the existing pipe for UPS supply to lighting 6 lights (1 in each room and 2 in hall).	80	Mtr	47.08	<b>3,766.40</b>
5	Supply and wiring with CAT-6 cable and suitable size PVC conduit casing caping pipe with accessories.	150	Mtr	54.40	<b>8,160.00</b>
6	Supply and wiring with telephone cable and suitable size PVC conduit casing caping pipe with accessories.	80	Mtr	47.08	<b>3,766.40</b>
7	Supply and fixing of computer RJ-45 jack with suitable modular box.	12	Nos.	392.34	<b>4,708.08</b>
8	Supply and fixing of telephone RJ-11 jack with suitable modular box.	4	Nos.	287.71	<b>1,150.84</b>
9	Supply and fixing of 1No 5A switch and 1No 5A 2in1 socket modular in the existing switch board with interconnections.	6	Nos.	251.10	<b>1,506.60</b>
10	Supply and fixing of 1No 5A switch with 1No 5A 3pin socket with suitable size modular box.	10	Nos.	470.80	<b>4,708.00</b>
11	Supply and fixing of 2Nos 5A switch and 2Nos 5A 2in1 socket with suitable size modular box for UPS supply.	12	Nos.	889.30	<b>10,671.60</b>
12	Supply and fixing of 1No 15A switch with 1No 15A 3pin socket with suitable size modular box	2	Nos.	706.20	<b>1,412.40</b>
13	Supply and fixing of 1No 15A switch with 1No 15A 3pin socket with suitable size modular box with UPS supply for ATM.	2	Nos.	706.20	<b>1,412.40</b>
14	Supply and fixing of 20A metal clad plug and socket with 1No 20A SP MCB in M.S enclosure.	7	Nos.	915.50	<b>6,408.50</b>
15	Supply and fixing of 1No 20A DP MCB in suitable M.S enclosure for UPS input supply for 3kVA UPS.	2	Nos.	1,464.73	<b>2,929.46</b>

SI. No	Description	Qty.	Unit	Rate (Rs. P)	Amount (Rs. P)
16	Supply and fixing of 8way compartmental TPN MCB DB with M.S enclosure including 1No 63A 4pole MCB, 24Nos 20/16/10/6A SP MCB with interconnections.	1	Nos.	11,508.55	<b>11,508.55</b>
17	Supply and fixing of 12way SP MCB DB with M.S enclosure including 1Nos 40A DP MCB and 10Nos 10/6A SP MCB with interconnections for UPS line.	2	Nos.	5,597.35	<b>11,194.70</b>
18	Supply and fixing of 1X18W box type fitting with 18W LED tube light with accessories.	10	Nos.	680.05	<b>6,800.50</b>
19	Supply and fixing of 2'X2' square type false ceiling 48watts LED fitting with accessories.	9	Nos.	5,597.40	<b>50,376.60</b>
20	Supply and fixing of round type false ceiling 18watts LED fitting with accessories.	4	Nos.	2,406.34	<b>9,625.36</b>
21	Supply and laying of No.8 SWG copper wire for earthing.	50	Mtr	94.16	<b>4,708.00</b>
22	Supply and fixing of 1200mm sweep ceiling fan with down rod and accessories with electronic regulator.	3	Nos.	1,517.04	<b>4,551.12</b>
23	Supply and fixing of 19mm dia. 2.5 to 3mtr length fan down rod.	3	Nos.	261.56	<b>784.68</b>
	<b>EB service connection</b>				
24	Supply and fixing of 125A change over switch with M.S enclosure and suitable size adaptor box.	1	Nos.	11,351.60	<b>11,351.60</b>
25	Supply and laying of 3.5core 50sqmm LT UG Al. Ar. Cable in wall/ Over head with 12SWG GI wire for EB incoming.	55	Mtr	298.15	<b>16,398.25</b>
26	Supply and making end termination 3.5C 50sqmm LT UG Al. Ar cable.	6	Nos	470.80	<b>2,824.80</b>
27	Supply and erection of 2.5mtr length 50mm dia. GI earth electrode with alternate layer of salt and charcoal including excavation of earth and refilling with same soil.	2	Nos	4,708.05	<b>9,416.10</b>
28	Supply and fixing of TANGEDCO 3phase meter board with suitable angle iron frame including provision for fixing 3phase energy meter, 3Nos 200A fuse carrier 1No 125A TPN switch with HRC fuses and internal control wiring with accessories.	1	Set	22,494.01	<b>22,494.01</b>
29	Supply and fixing of 200A patty type fuse unit-3No with suitable MS roofing plate with clamps etc.	1	Set	8,474.49	<b>8,474.49</b>
30	Supply and fixing of 300 mm (12") size, heavy duty exhaust fan (230V, 50Hz,1400 RPM, Single phase) complete with all required and electrical connection Brand : CROMPTON GREAVES	1	Nos.	1,673.96	<b>1,673.96</b>
Total for Part C					<b>3,06,221.90</b>
Grand Total (Part A + Part B + Part C)					<b>9,18,180.95</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
NIL		

2. ~~It will be the responsibility of the Contractor to submit his demands for the above stores in writing at least seven days in advance of the actual requirement.~~
3. ~~Issue of Stores is subject to 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 wages~~
4. ~~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.~~
5. ~~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 as soon as they are issued to him to the site of work at his own cost.~~
6. ~~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.~~
7. ~~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.~~
8. ~~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.~~
9. ~~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.....

- Machineries shall not be operated over time without the written permission of the Sr. Engineer / Dy. Manager / Manager.
- 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
---	----	----NIL----

### SCHEDULE 'E'

#### LEAD STATEMENT

Sl. No.	Name of Material	Name of Source	Lead Particulars both for Factory and Township
1	AA UG cable	BHEL	10 km

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

### AUTHORITY TO TENDER

Tender Notice No. **CT: TN: 023 / 16 - 17** Office of the  
DGM/ CIVIL / PLANNING (F&T), 53 Building,  
BHARAT HEAVY ELECTRICALS LIMITED  
TIRUCHY – 14.

Tender Schedule No. **CT: TS: 046 / 16 - 17**

**Item percentage rate** tender for work required in **Improvement & Modification works for the proposed BHE-ECB Branch at No.1 Good Shed Road, Trichy – 2.**

Messrs / Mr. ....

.....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**, Bharat Heavy Electricals Limited, Thiruverumbur, Tiruchirappalli – 620 014, **up to 14.00 hrs. on 22 04 2017** superscribing the name of work as mentioned above.

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

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

**Issuing Officer with  
Designation**

Contract Agreement No.....

**TENDER**

To

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

I / We hereby offer to carry out the work of **“Improvement & Modification works for the proposed BHE ECB City Branch at No.1 Good Shed Road, Trichy – 2.”**

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

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

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

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

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

**WITNESS**

Signature of the Contractor

Date:

- 1. ....
- 2. ....

**GENERAL SUMMARY**

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

.....  
Total Rs. ....  
.....

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

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

(In block letters)

Date: SIGNATURE OF CONTRACTOR

Witness: Postal Address:

1..... Telephone No.  
Address

2. ....  
Address

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

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

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

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

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

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

Designation .....