	Bharat Heavy Electricals Limited (A Government of India Undertaking) BOILER AUXILIARIES PLANT RANIPET - 632 406, INDIA	Phone No: 04172-284259,284698 FAX No: 04172-241176 E-mail: elangovan@bhelrpt.co.in mpcsekhar@bhelrpt.co.in
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WORKS CONTRACT MANAGEMENT DEPARTMENT

REGISTERED POST WITH ACK.DUE

INVITING TENDER	
Tender Notice No	9860037E DT: 31.10.2016.
Name of work	Electrical Petty Works at BHEL Ranipet for Two years
Type of tender	Open tender.
Period of contract	Two years
Earnest Money Deposit (EMD) Amount	Rs.1,42,000/- (Rupees One lakh forty two thousand only)
Last date & Time for Receipt of the Tender	25.11.2016 at 14.00 Hrs.
Date of Technical bid Opening	25.11.2016 at 14.30 Hrs. on wards.
<i>(Please obtain updated information from the BHEL website about the latest applicable dates & other changes if any in the tender contents)</i>	
Date of Price Bid Opening	Bidders whose technical bids are found acceptable will be intimated separately about the status of their offers and the date of Price Bid opening.
Place of submission of Tender	Tender Box placed in WCM Department (ENGG. Building – Ground Floor-West side), BHEL –BAP- Ranipet – 632 406.
Address on the Sealed Tender Cover to be:	DGM / WCM DEPARTMENT ENGG. BUILDING–GROUND FLOOR(WEST SIDE), BHARAT HEAVY ELECTRICALS LIMITED RANIPET , VELLORE DISTRICT, TAMILNADU– 632 406.
Venue of the Tender Opening	WCM Department
<u>Note:</u>	
<p>1.The Tender documents can be down loaded from BHEL website (http://www.bhel.com/tender/list_tender.php) and Govt tender web site: http://tenders.gov.in/ and also in Central Public Procurement Portal (CPP) website: http://eprocure.gov.in/epublish/app</p> <p>2.Interested bidders may alternately collect hard copy of tender specification documents at free of cost from WCM Dept / BHEL / Ranipet on all working days (between 10.00 to 15.00 hrs) .</p> <p>3.Tender bids not meeting any of the above pre-qualification criteria shall be rejected and shall not be considered for further evaluation of tender.</p> <p>4. The work executed in the own name of the bidder only will be considered for similar works executed for meeting the eligibility criteria.</p> <p>5. All corrigenda, addenda, amendments, clarifications etc. to tender specification will be hosted in the web pages (www.bhel.com > Tender notifications > view corrigendum) only and not in the news papers. Bidders shall keep themselves updated with all such developments.</p> <p>6.BHEL reserves the right to reject any tender on the basis of unsatisfactory performance of the bidder in any on going job or any similar job in the past.</p>	

ISSUING OFFICER
DGM / WCM

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INTRODUCTION ABOUT BAP/BHEL-RANIPET

1. BHEL/ Ranipet is located around 120 KM north of Chennai, in Vellore district. The factory is having manufacturing facilities for Boiler auxiliaries like Electro static precipitators, Fans, Air-pre heaters.
2. There is a 11 KV receiving substation located inside the factory with 2500 KVA approved demand which is distributed for factory and office power requirements. There are around 9 manufacturing bays which are operated for two shifts. The plant is having stand by DG sets of various ratings totaling of 2500 KVA to cater to power demand during the normal (EB) power failure. There are various type of machineries available for production purpose.

SCOPE OF WORK

1. While normal routine maintenance of these sophisticated machines and plant operation will be carried out by BHEL Employees, the petty electrical maintenance works like replacement of electrical light & Fan fittings, open wiring, concealed wiring work, fixing of Power distribution boards, maintaining of earth pits, painting of equipment and structures, supply and fixing of switches & switch boxes etc., based on the schedule of work available on price bid will have to be carried out by the contractors. The plant is operational for round the clock shifts; however the contractor generally has to carry out the petty works in general shift i.e. from 08:30hrs to 17:30 hrs.
2. The scope of work includes Installation of Electrical switch gears, equipment supplied by BHEL, including cable laying works.
3. In some of the schedules as detailed in the Part-II , the contractor has to Supply and install Electrical switch gears, equipment including cables etc.
4. For contract workers, there is a separate canteen available inside the factory. The food is available at subsidized rates.
5. The period of contract is 2 years from the date of issue of work order. The billing will be done only for executed quantities. The quantity of each item in the schedule of work may vary to any extent depends up on actual requirement. The bidders are advised to visit our factory and ascertain the working conditions before quoting.
6. The contractors are requested to quote realistic and reasonable rates for all the schedules, by keeping the business volume and duration of the contract period in mind.
7. The contractor has to mobilize required men and materials to complete the work as per the requirements of BHEL.
8. BHEL reserves the right for extending the contract period based on the mutual agreement.
9. The quantities given on the Bill of materials against each schedule is tentative / approximate and is subject to variation. There may be execution of excess quantum (or) Non execution of any items given in the schedule (or) lesser execution of any items in the schedule.
10. The bidder shall note the clause (9) above before quoting.

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11. The quantity indicated in the Bill of material is only tentative. The contractor has to execute any item of work irrespective of the quantity without any reservation till the total value of contract.
12. The contractor should use only the switchgears / materials of brand and quality as approved by BHEL.
13. Water, Electricity and compressed air will be provided by BHEL at free of cost.
14. No advance / mobilization advance will be given.
15. Quantities shown in the attached schedule are only approximate and are liable to variation without ending the contract to any compensation.
16. All works shall be carried out as per standard specifications and instructions of Engineer-in-charge.
17. All materials, color, shade, brand, etc. shall be get approved by the Engineer-in-charge before the start of the work and shall confirm to the latest IS-specifications.
18. Proper material accounting has to be maintained for all the materials supplied by BHEL.
19. Welding equipment, consumables (welding electrodes, gas and etc.,) and cutting M/Cs with Tools, Tackles are under contractor scope.

SPECIAL CONDITIONS

1. The tender is floated on two part bid basis i.e., (1) Techno commercial bid and (2) Price bid.
2. BHEL reserves the right to increase or decrease the tendered quantity.
3. Lowest prices received against BHEL tenders need not be the technically acceptable one, and in that case, BHEL reserves the right not to consider the same.
4. BHEL reserves the right to negotiate or refloat the tender opened, if L1 Price is not lowest acceptable price to them inter-alia other reasons.
5. BHEL reserves the right to negotiate the L1 rate.
5. **The contract will be finalized based on the overall LOWEST value and will be awarded to “single party only”.**

QUALIFICATION REQUIREMENTS (QR):

S NO	DESCRIPTION	BHEL REQUIREMENT	VENDOR CONFIRMATION
1	EMD	Rs 1,42,000/- (or) MSME valid certificate(as per MSE Clause listed in point no.35).	DD No. / CR.No.
2	Eligibility	a) Should have experience of successfully completed similar works i.e. "Electrical maintenance works in manufacturing/process industries" or successfully executed erection works of electrical equipment/cables/LT panels/HT panels in manufacturing/process industries".	
		b) An average annual financial turnover during the last "3" years ending on 31 st Mar 2016 should be at least Rs.21.27 lakhs.	
		c) One(1) similar work experience of costing not less than Rs.56.72 lakhs. (or) Two (2) similar work experience, each costing not less than Rs.35.45 lakhs. (or) Three (3) similar work experience, each costing not less than Rs.28.36 lakhs each during the last 7 years ending on 30th September 2016.	
		d) Should have valid Electrical EB/ESA/EA/ESB grade license issued by the state Electrical Licensing Board of Tamil Nadu/Other states for carrying out this works.	
3	Document copies to be submitted.	1) LOI's / Work order(s).	
		2) Work Completion certificates for the LOI's/WO's referred.	
		3) Income Tax return filed for last 3 years (i.e. for AYs 2014-15, 2015-16 & 2016-17).	
		4) Certified P/L account statement by the Auditor, for the last 3 years (i.e. FYs 2013-14, 2014-15 & 2015-16).	
		5) Relevant License for Electrical works.	
Possession of PF registration number is not mandatory. However the successful tenderer has to register with PF authorities and furnish the registration number before first Running Account Bill.			
<p>Note : 1.Those who are unable to comply the above points / unable to provide any of the above documents shall be technically rejected and the price bid of the rejected offers will not be opened.</p> <p>2. Vendor shall visit the Plant before submitting the offer to get to know the location for deploying adequate and suitable personnel for the works & also the equipment.</p> <p>3. BHEL reserves its right to reject the tender on account of unsatisfactory past performance by the bidder in other projects awarded under different enquiry.</p> <p>4. The work executed in the own name of the bidder only will be considered for similar works executed for meeting the eligibility criteria.</p> <p>5. Offers of the Contractors/Suppliers , against whom , any unit of BHEL had initiated process for banning or already banned will summarily be rejected.</p>			

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CHECKLIST

Checklist to be answered by the bidder by ticking the suitable boxes:

SL. No	Description	Yes	No
01	Whether the bidder has understood the scope of work and agrees to deploy required man power.		
02	Whether the bidder has agreed to all Terms & Conditions given in the tender.		
03	Whether the bidder has their own code for ESI & PF. (A copy of the certificate to be enclosed).		
04	Whether the bidder has enclosed copy of the present Service / Sales / Works contract sales Tax registration certificates. If a vendor is exempted from the registration under Service / Sales Tax, the reason there of to be stated.		
05	Whether the vendor / Contractor is availing service Tax credit / VAT Credit for their inputs.		
06	Whether the vendor will submit Service Tax invoice as per the existing ACT and the rules their under.		
07	Whether the bidder agrees to Pay Wages as per Minimum wages Act, EL Wages, and Holiday Wages as per Tamil Nadu Factory rules. (Necessary proof should be submitted while claiming running bill and final bill.)		
08	Whether the PAN Number of the bidder is furnished. If exempted from IT, the exemption certificate shall be enclosed.		
09	<p>Applicable service tax @ _____%</p> <p>Note: Please refer clause no.51 (page no. 14) of Special Instructions of this Tender regarding Service tax.</p>	Quoted	Not quoted

Note: BHEL has now made arrangements for payment of EMD thru" Online. The steps to make online payment is detailed as below:

- 1) Visit <https://www.onlinesbi.com/prelogin/collecthome.htm>
- 2) Click „Proceed" button
- 3) Select „Tamilnadu' in the drop down menu under „State of Corporate/Institution **"
- 4) Select „PSU-PUBLIC SECTOR UNDERTAKING" in the next drop down menu under " Type of Corporate/Institution"
- 5) Click „Go" button
- 6) Select „BHEL BAP RANIPET in the drop down menu under "PSU-PUBLIC SECTOR UNDERTAKING"
- 7) Click „Submit" Button
- 8) Select „EMD ,, in the drop down menu under ' Select Payment Category"
- 9) Now Fill in the required details and ensure correctness of data filled. Ensure that you are entering correct enquiry/tender number and other details correctly.
- 10) Make payment for EMD as required in tender after entering the details and enclose copy of receipt along with tender documents.

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SPECIAL INSTRUCTIONS TO THE TENDERERS

1. Tenders must be submitted in sealed covers and should be addressed to **DGM / WCM, BHEL/BAP/RANIPET-632406**, with full name and address of the tenderer and the name of the work being super scribed on the cover.
2. Late offers & incomplete offers shall become liable for rejection.
3. The tender shall be submitted as given below.
 - **Cover-1** shall contain the EMD alone. Tender without EMD / without MSME valid certificate(as per MSE Clause listed in point no.35) will be summarily rejected.
 - **Cover-2** shall contain the techno-commercial bid (Page **1 to 38**) and all relevant documents.
 - **Cover-3** shall contain only the price bid.(**Part II Page 1 to 12**)Each of the above covers shall be super scribed with tender number, respective cover content detail as EMD, Technical bid, Price bid and withfull name and address of the tenderer.

Finally, all the above three covers shall be put in one single large cover and super scribed with the tender number, due date, name of the work and with full name and address of the tenderer.

4. **At the time of tender opening,**
 - Covers containing EMD / MSME valid certificate (as per MSE Clause listed in point no.35), alone shall be opened first. Tenders received without earnest money deposit in full or part, in the form prescribed shall be summarily rejected.
 - **Techno commercial bids of such of those tenderers who satisfy EMD requirements alone will be opened next.**
 - **Price bids will be opened, after evaluation and suitability of technical bids.**
 - If any of the tenders not fulfilling the Qualifying Requirements (QR) or non submission of valid documents within the time limit prescribed by BHEL, their offer shall be rejected.
 - ***The date & time of opening of price bid will be intimated to those tenderers who are technically qualified.***
5. All entries in the tender documents should be in one ink. Erasures and over-writings are not permitted. All correspondences and insertions should be duly signed by the tenderers concerned.
6. Tenderers should fill their rates in figures and words in the blank spaces provided for this purpose in the schedule of rates format enclosed along with these documents and also sign each and every page of the tender documents.
7. The tenderer should fill and sign the "Checklist " which is enclosed with this Tender document page no 06. This should be enclosed along with the technical bid.
- 8 ***Conditional tenders, tender containing absurd rates and amounts, tenders which are incomplete or other wise considered defective and tenders not in acceptance with the tender conditions laid down by the Accepting Officer, are liable for rejection.***
- 9 In quoting the rate, the tenderers are advised to take into account of all the factors including any fluctuations in the market rates etc. No claim shall be entertained on this account after acceptance of the tender or during the currency of the contract.
- 10The rate quoted in the tender shall remain valid for a period of three months from the date of opening of tender.
- 11 **Earnest Money Deposit (EMD) of Rs.1,42,000/- (Rupees One lakh forty two thousand only) in the form of Demand Draft (DD) drawn from any nationalized bank, in favor of "BHEL, Ranipet" payable at SBI, Mukundarayapuram Branch (Code 7013) / Pay online (<https://www.onlinesbi.com/prelogin/icollecthome.htm>) and enclose the payment details in the EMD cover. However they have to furnish the details of Cash Receipt No. & Date on the**

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top of the EMD cover. EMD in any other form will not be accepted. If vendor have their valid MSE Certificate, need not to pay EMD for this work.

12 "No interest shall be payable by BHEL on Earnest Money or Security Deposit, if applicable, or any money due to the Contractor by BHEL." "BHEL shall have the right to recover any money due from the contractor from any money due to the contractor under this contract or any other contract or from the security deposit."

13 If a tenderer withdraws his offer after submission or after acceptance, fails to complete the works in accordance with the instructions of the Manager/M&S (Electrical services), the earnest money deposited by him will be forfeited and acceptance of his tender will be withdrawn.

14 The Bharat Heavy Electricals Limited, reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason there for.

15 Tenders submitted by post should be sent through "REGISTERED POST WITH ACKNOWLEDGEMENT DUE/Speed Post/Courier". The tender should be posted with due allowance for any delay in postal delivery. The tenders received after the due date and time schedule specified in the tender will not be considered for further processing.

16 The contractor's responsibility for this contract shall commence from the date of issue of order of acceptance of his tender.

17 The earnest money deposited by the successful tenderer will be retained towards Security Deposit for the due fulfillment of the contract.

18 In the case of unsuccessful tenderers, the earnest money will be refunded normally within 15 days of award of work.

19 Unless the contractor whose tender is accepted, signs the contract agreement within fifteen days of the date of the order directing him to do so, the amount of EMD already deposited by him will be forfeited and acceptance of his tender shall be withdrawn.

20 SECURITY DEPOSIT:

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

21 Modes of deposit:

a. The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:

- i) Cash (as permissible under the extant Income Tax Act)
- ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL
- iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
- iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL)
- v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL)

(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)

b. At least 50% of the required Security Deposit, including the EMD, should be collected before start of the work. Balance of the Security Deposit can be collected by deducting

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10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected.

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

The recoveries made from running bills (cash deduction towards balance SD amount) can be released against submission of equivalent Bank Guarantee in acceptable form, but only once, before completion of work, with the approval of the authority competent to award the work.

- d. EMD of the successful tenderer will be converted and adjusted against security deposit.
e. EMD and security deposit shall not carry any interest.

22 Security deposit shall be refunded only after successful completion of the contract to BHEL's satisfaction.

23 Should a tenderer or a contractor has a relative or in the case of a firm or company of contractors, any of its shareholders or shareholder's relative, employed in Bharat Heavy Electricals Ltd, the authority inviting tenders shall be informed of this fact at the time of submission of the offer, failing which the offer may be disqualified or if such fact subsequently come to light, the contract may be cancelled.

24 BHEL employees and their dependents are NOT eligible to submit their offer against this contract. Even if they submit out of ignorance the offer shall be disqualified.

25 If a tenderer expires after submission of his tender, the Bharat Heavy Electricals Ltd, may be at their discretion to cancel such tender.

26 BHEL will not bound by any power of Attorney granted by the tenderer or changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contract concerned.

27 If the contractor deliberately, gives wrong information in his tender or creates conditions favorable for the acceptance of his tender. Bharat Heavy Electricals Limited reserves the right to reject such tender at any stage.

28 The expenses for completing and stamping the agreement shall be to the contractor's account.

29 The general and special conditions of contract are complementary to each other and where they are in conflict, the special conditions shall prevail. In regard to matters not covered by the General or Special conditions of contract, those contained in the specifications approved by BHEL, shall apply.

30 Tenderers shall not increase their quoted rates incase BHEL negotiate for reduction of rates, such negotiations shall not amount to cancellation or with drawn of the original offer and the rates originally quoted shall be binding on the tenderers for a period of three months from the date of opening of tenders.

31 Canvassing in any form in connection with the tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.

32 The "GENERAL CONDITIONS AND INSTRUCTIONS TO TENDERERS AND SPECIAL CONDITIONS TO THE TENDERER" shall be deemed to form an integral part of contract for the work to be entered into.

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of Rs..... 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

Signature of the Tenderer with seal
(Authorized Signatory)

36 a) Arbitration

- i) All disputes between the parties to the Contract, arising out of or relation to the Contract shall after written notice by either party to the Contract to the other party be referred to the sole Arbitration of Executive Director, BAP or any designate nominated by the Executive Director of BHEL in his sole discretion.
 - ii) The venue of Arbitration shall be Ranipet, Tamil Nadu. The arbitrator may hold meetings for convenience in such a place or places discretion.
 - iii) The award of the Arbitrator shall be final, conclusive and binding on both parties to the Contract.
 - iv) The Contractor shall, not with standing any disagreement, dispute, protest, request for arbitration, court or other proceedings, continue to perform the Services in accordance with the determinations, instructions and clarifications of BHEL
- b) Subject to the above, the appropriate court in Ranipet shall have the exclusive jurisdiction over any disputing arising out of or in connection with this Contract.

c) Risk Purchase

- i) In case of any neglect or refusal on the part of the Contractor to:
 - commence the Contract, or
 - if in the opinion of BHEL, the Contract performed by the Contractor are not satisfactory, or
 - if the Contractor fails to carry out the Contract or as per instructions of the BHEL or officer authorized by it,

BHEL shall have the right to have the Work done by any means, including by engaging a new contractor, at the Contractor's sole risk and expenses.

- ii) The above shall be without prejudice to any other remedy that may be available to BHEL whether as per law, contract, equity or otherwise.

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- iii) In the event, the cost of the work so done (as certified by BHEL which is final and conclusive) is less than the Contract cost, the advantage shall accrue to the BHEL and if the cost exceeds the money due to Contractor under the Contract, the Contractor shall either pay the excess amount ordered by BHEL or the same shall be recovered from the Contractor by other means.
- d) Contractor shall indemnify and keep indemnified BHEL, its other contractors and/or sub-contractors and its/their employees from all actions, proceedings, suits, claims, demands, liabilities, damages, losses, costs, charges, expenses, judgments and fines arising out of or in the course of, or caused by the execution of work under the Contract or other obligations hereunder directly or indirectly associated herewith which may arise due to:
 - i) Breach of law by the Contractor, or any of its sub-contractor, or any of their respective employees.
 - ii) Negligence or willful default by the Contractor, or any of its sub-contractor, or any of their respective employees.
 - iii) Failure by Contractor to proceed with Project in accordance with the determinations, instructions and clarifications of Company pending disagreement, dispute, protest, request for arbitration/ court proceedings
 - iv) Loss of property or death of any employee of BHEL or of its other contractors/ sub-contractors.

The above shall be without prejudice to any other remedy that may be available to BHEL whether as per law, contract, equity or otherwise.

37 All corrigenda, addenda, amendments, time extensions clarifications, etc., to the tender will be hosted on BHEL website (www.bhel.com) only. Bidders should regularly visit BHEL website to keep themselves updated.

38 SET OFF Clause: "BHEL shall have the right to recover any money which in the sole opinion of BHEL is due from the Contractor from any money due to the Contractor under this Contract or any other contract or from the Security Deposit furnished by the Contractor under this Contract or any other contract. "

39 "Notwithstanding anything to the contrary, including, but not limited to, provisions relating to extension of time and compensation/or delay, time shall be the essence of the Contract."

40 Multiple Bids:

The bidder in his own interest shall submit only one bid. If a bidder submits multiple bids, all the bids are liable for rejection. Bids shall be considered "Multiple" in the following circumstances:

- a) Two bids by the same party.
- b) If one bidder is the Affiliate of another bidder.

For the purpose of this clause "Affiliate" shall mean with respect to any Person, any other Person that, directly or indirectly, controls, is controlled by, or is under direct or indirect common control with, such Person, or is a director/ member / officer/ employee of such Person or of any Person who would otherwise qualify as an Affiliate of such Person pursuant to this definition;

"Person" for the purposes of this definition shall mean any natural person, individual, corporation, limited partnership, co-operative, general partnership, joint stock company, joint venture, association, company, trust, bank, trust company, land trust, business trust, corporate body or other organization, whether or not a legal entity."

41 Fraud Prevention Policy:

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

42 Suspension of Business Dealings:

The bidder along with its associate / collaborators / sub-vendors / consultants / service providers shall strictly adhere to "Guidelines for Suspension of Business Dealings with Suppliers/ Contractors" AA/MM/SB/01 Rev: 02, Dt.22.07.2016 displayed on BHEL website <http://www.bhel.com>.

(http://www.bhel.com/vender_registration/pdf/Suspension_guidelines_adbridged.pdf)

43 Minimum Wages to be paid :

Description	For Unskilled Worker (Rs.)	For Semi skilled Worker (Fresh ITI) (Rs.)	Skilled Worker (ITI Holder with 3 years Experience / Diploma Holder / BE Holder) (Rs.)
Basic Pay as on 01.04.2016	3600 pm	3840	4050
Dearness allowance as on 01.04.2016	5196 pm	5196	5196
BHEL Adhoc per month	3200 pm	3700	4100
Total wage per month	11,996 pm	12,736	13,346

Payment of Bonus to be ensured as per Bonus act.

44 Any increase in minimum wages, by the State Government , during the period of Contract, will have to be borne by the Contractor. The statutory requirements like PF, ESI will be applicable for the actual total wage per month inclusive of BHEL adhoc. Bonus amount will be as per bonus act. Contractor quoted rate shall be inclusive of all the above payments including statutory payments thereon.

45 The Contractor shall remain liable for the payment of all wages or other moneys to his workmen or employees under the payment of Wages Act 1936, Employees Liability Act. 1938, Workmen's Compensation Act 1923 or any other Act or enactment, relating thereto and rules framed, there under from time to time.

46 The filled ESI declaration forms shall be submitted to the Executive of HRM Dept. In the Declaration Form full address of the contractor shall be mentioned. Whenever a fresh and unregistered worker is engaged during the operation of contract, declaration form in respect of that workman which should be submitted to Human Resources Department within two days of such engagement.

47 ESI contributions (1.75% employees contribution + 4.75% employer contribution of the total monthly wages) before 20th day of every following month. Prescribed challans are available at ESI local office, Ranipet (near Sipcot). Contractors who have got their own code number can remit the contributions on that number. Along with the challan copy, the details of remittance shall be submitted to the concerned HRM Executive in the ESI compliance form.

48 The contractor should deduct Provident Fund and ESI amount as per the provisions and amount so deducted along with the matching contribution of the contractor shall be remitted to the authorities concerned within the stipulated time. The statement of deduction along with the challans evidencing remittance shall be submitted to Officer-in-charge. If the evidences are not shown, further bills of the contractor will not be paid. BHEL have the right to withhold the payment of his bills. Submission of statutory returns such as Half Yearly returns of ESI (Form 6), P.F. return (Form 12A), Form 5 and Form 10, Form 3A & Form 6A should be send to the concerned officers in time.

49 The workers" particulars such as Name, Age, Father's name, address , Phone no ,etc., and

their daily attendance have to be maintained by the contractor. The details of Provident Fund and ESI compliance have to be maintained by the contractor in the prescribed format/register.

- 50 The contractor has to follow the below mentioned without fail.
- a. Minimum wages as announced by the government from time to time to be paid as applicable to the labours engaged.
 - b. For work extending beyond prescribed shift working of 8 hours, overtime as applicable shall be paid.
 - c. Annual Bonus shall be paid @ 8.33% of the annual Wages.
 - d. P.F., and E.S.I contributions to be made at the prescribed rates on wages paid
 - e. Shall arrange to provide E.S.I medical cards.
 - f. Monthly wage slip to the labours
 - g. Annual slip for the P.F. contribution to be issued
 - h. Annual returns for the P.F. and E.S.I payments to be filed
 - i. Safety and Personal Protective Equipments are to be provided
 - j. Maintain the following registers
 - i. Attendance register
 - ii. Wage register
 - iii. Over time register
- 51 **Service Tax:** Rates quoted shall include all royalties, terminal taxes, octrai duties, central and provincial excise tax, sales tax and other taxes leviable under the State or Central Government Rules excluding Service Tax. The Bharat Heavy Electrical Limited will not entertain any claim whatsoever in this respect in future.

The Bidder shall not include Service Tax in their quoted rates; but the bidder has to separately indicate the Service Tax rate, amount and workings thereof in the Price bid schedule included in the bid documents.

If service tax amount is not indicated separately in the price bid, schedule included in the Bid documents, it will be presumed that the quoted rate is inclusive of applicable service tax and bids will be evaluated accordingly.

Section-I Works Contract involving supply of materials by Contractor:

Bidders have to quote full Service Tax payable in the Price bid format included in the Bid document. Out of Full Service Tax amount indicated by the Bidder, 50% of the same shall be considered for evaluation of offers in the case of Bidders being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons. For Other Bidders full Service Tax quoted shall be considered for evaluation.

In such cases of successful Bidder being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of

Persons, 50% Service Tax amount quoted in the Price Bid format will be considered for reimbursement against valid documentary evidence. For others Service Tax quoted in the Price Bid will be considered for reimbursement against valid documentary evidence.

In such cases of Bidders being an Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons, Service Tax payable by BHEL as receiver of Works contract Service i.e. 50% of the Service Tax payable for Works contracts service on composition basis on quoted price and the value of Free issue materials by BHEL @ 5.25% presently, shall be added to arrive at the total cost to BHEL for each bidder for the purpose of evaluation of Bids. **(Note: Applicable Service Tax is 70% of 15.00% (i.e. 10.50%) as work involved is original Works Contract).**

In case of any change in existing taxes due to Govt. notifications, the same will be applicable for this contract. But if the variation is effective during the delayed/extended period of

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execution for reasons attributable to the vendor, the same shall be borne by the vendor only. The required compliance under relevant statute shall be carried out.

Approximate value of free materials supplied by BHEL is Rs 30.00 lakhs. Hence 50 % of Rs.3,15,000/- (i.e.30,00,000*10.5/100)*0.5= Rs.1,57,500/-) will have to be paid by the bidder towards service tax for the BHEL supplied materials and get reimbursed after submitting service tax challans in case the Firm is Individual, Sole Proprietary ship firm, Hindu Undivided Family or Partnership firm whether registered or not, including Association of Persons. For others Rs.3,15,000/- will have to be paid by the bidder towards service tax for the BHEL supplied materials and get reimbursed after submitting service tax challans. Amount of such service tax will be based on the actual monthly completions of the respective works/schedules.

52 Discrepancy in “words “ & “ Figures “

- a) If, in the price structure quoted for the required goods/services/works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- b) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
- d) If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date up to which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.

53 Seeking clarification on Tender Specification: Clarifications on tender specification if any may be sought by the bidders during the office hours only from the DGM/WCM- phone no -04172-284259.

54 All the information as called for in the various clauses and annexure of tender specification should be furnished. The details so furnished should be complete in all respects and as per the formats prescribed in the Tender specification (Statutory requirement of Contract). The bidder may have to produce original documents for verification, if so decided by BHEL.

55 Offers received with any deviation or without relevant information are liable to be rejected.

56 Price bids received in any form other than prescribed in PRICE BID are liable to be rejected.

57 **The tender offer should be kept valid for 3 MONTHS from the date of price bid opening** for acceptance by BHEL. No unsolicited revision in the tender offer shall be entertained after opening of tenders and till expiry of the validity period.

58 Quoted rates shall be firm through out the contract period and extended contract period also and no cost escalation is allowed on any account.

59 **The similar works executed in the own name of the bidder only will be considered for eligibility / qualification criteria.**

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SECTION – I

1) DESPATCH INSTRUCTIONS:

- 1.1. This tender specification as a whole, duly furnishing all the details required and other documents as required in the following pages, shall be duly signed and sent in a sealed cover duly superscribing the name of work as given in the tender notice.
- 1.2. The tender shall be addressed to Officer inviting tender as indicated in the tender notice.
- 1.3. Tenders submitted by post shall be sent by “REGISTERED POST WITH ACKNOWLEDGEMENT DUE” and shall be posted with the due allowance for any postal delay. The tenders received after the due date and time of opening is liable to be rejected. Telegraphic offers and offers received by telex may not be considered.
- 1.4. Tenders shall be opened by authorized officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those bidders or their authorized representatives who may be present.
- 1.5. The Tenders shall closely pursue all the clauses, specifications and drawings indicated in the tender documents before quoting. Should the bidder have any doubt the meanings of any portion of the tender specification or find discrepancies or omission in the drawings or the tender documents issued are in complete or shall require clarification on any of the technical aspect, scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the tender.
- 1.6. Before tendering, the bidders are advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later, on the ground of lack of knowledge.
- 1.7. Bidder must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification must be signed and submitted along with the offers by the bidder in token of complete acceptance thereof. The information's furnished shall be completed by itself.
- 1.8. The bidders shall quote the rates for each item of the tender schedules in rupees and paise only. These rates shall be entered in figures as well as in words. In case of any difference in the rates quoted in figures and in words, words will be taken as the tendered rate.
- 1.9. All entries in the tender documents should be in one ink. Over-writing and corrections should be avoided. The Bidders concerned should duly sign for all corrections and over-writings.

2) DATA TO BE ENCLOSED:

- 2.1. Full information shall be given by the bidder in respect of the following. Non-submission of this information may lead to rejection of the offer.
- 2.2. An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor, shall also be attached. (If it is a Company or Firm, etc., Director/Managing Partner as the case may be is required to sign).

2.3. IN CASE OF AN INDIVIDUAL:

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His full name, address and place and nature of business shall be indicated.

2.4. IN CASE OF PARTNERSHIP FIRMS:

The names of all the partners and their addresses be furnished along with a copy of the partnership deed/instrument of partnership duly certified by Notary Public shall be enclosed.

2.5. IN CASE OF COMPANIES:

Date and place of registration including date of commencement certificate in case of public companies (certified copies of Memorandum and Articles of Association are also to be furnished) are to be furnished.

2.6. Nature of business carried on by the Company and the provisions of the Memorandum relating there of shall be furnished.

2.7. Names and particulars including addresses of the Directors and their previous experiences shall be furnished.

2.8. A list of tools and tackles that the bidder is having and those that will be used on this job shall be furnished.

2.9. In addition to the above, the particulars required in annexure shall also be furnished.

3) EARNEST MONEY DEPOSIT (EMD) :

3.1. In the case of unsuccessful bidders, the Earnest Money will be refunded to them within a reasonable time after finalization of the tender.

3.2. Earnest Money Deposit by the bidder will be forfeited as per tender documents if the bidder :

3.3. Fails to communicate unqualified acceptance of Letter of Intent within 15 days of date of Letter of Intent.

3.4. Does not commence the work within the period as per LOI / Contract. In case the LOI/Contract is silent in this regard then within fifteen days after award of contract.

3.5. After opening of Tender, revokes / withdraws his tender within the validity period or revises / alters his earlier quoted rates / conditions.

3.6. Fails to submit SD as indicated in the Letter of Intent.

4) AUTHORISATION AND ATTESTATION:

Tenders shall be signed by persons duly authorized /empowered to do so. Certified copies of such authority and relevant documents shall be submitted along with the tenders.

5) VALIDITY OF OFFER:

The rates in the Tender shall be kept open for acceptance for a minimum period of **THREE MONTHS** from the date of price bid opening. In case the Bharat Heavy Electricals Limited calls for negotiations such negotiations shall not amount to cancellation or withdrawal of the original offer, which shall be binding on the bidders.

6) EXECUTION OF CONTRACT:

The successful bidder's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful bidder shall be required to execute an agreement in the prescribed form with BHEL within a reasonable time after the acceptance of his tender and in any case before submitting the first bill for payment. The expenses for completion,

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stamping and registration of the agreement with prescribed authority, if necessary, shall be borne by the Contractor.

7) SECURITY DEPOSIT (SD):

7.1. Upon acceptance of tender, the successful bidder within the time specified in the letter of intent must deposit the required amount of Security Deposit for satisfactory execution of work and shall not commence work under this contract before remitting security deposit except as directed by BHEL. **The total amount of Security Deposit shall be 5% of the Contract value.**

8.0 RETURN OF SECURITY DEPOSIT:

If the Contractor performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "No Demand Certificate" in the prescribed form and returns properties belonging to BHEL handed over, lent or hired by him for carrying out the said works, Security Deposit will be released to the Contractor after deducting all cost of expenses or other amounts that are to be paid to BHEL under this or other contracts entered into with the Contractor. **It may be noted that in no case the Security Deposit shall be refunded/released prior to passing of final bill.**

9.0 REJECTION OF TENDER AND OTHER CONDITIONS

9.1 The acceptance of tender will rest with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever.

9.1.1. To reject any or all of the bidders.

9.1.2. To award the work in part.

9.1.3. Either of the contingencies stated in (9.1.2) above to modify the time for completion suitably.

9.2. Conditional and Un witnessed tenders, tenders containing absurd or unworkable rates and amounts and tenders which are incomplete and otherwise considered defective and tenders not in accordance with the tender conditions, specifications, etc., are liable to be rejected.

9.3. If a bidder expires after the submission of his/her tender or after the acceptance of his/her tender, BHEL may at their discretion cancel such tender. If a partner of a firm expires the submission of the tender or after the acceptance of the tender, BHEL may cancel such tender at their discretion unless the firm retains its character.

9.4. BHEL will not be bound by any power of Attorney granted by the bidder or by changes in the composition of the firm made subsequent to the execution of the Contract. They may, however recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.

9.5. If the bidder deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or cancel the contract, if awarded. The Earnest Money/Security Deposit /any other money due shall also be forfeited.

9.6. Canvassing in any form in connection with the tender is strictly prohibited and the tender submitted by the contractor's who resort to canvassing in any form are liable to rejection.

9.7. Should a bidder or contractor or in the case of a firm or company of contractor's one or more of its partners/share holders/Directors have a relation or relations employed in BHEL, the authority inviting tender shall be informed of the fact along with the offer, failing this BHEL may, at its sole discretion reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.

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- 9.8.** The successful bidder should not sub-contract the part or complete work detailed in the tender specification undertaken by him without written permission of BHEL. The bidder is solely responsible to BHEL for the work awarded to him.
- 9.9.** No deviation from the tender specification shall be acceptable to BHEL. Bidders shall confirm their unqualified acceptance of the terms and conditions by giving an undertaking to this effect in a separate letter as specified by BHEL.

SECTION – II

10.1 DEFINITION:

The following terms shall have the meaning hereby assigned to them except where the context otherwise requires.

- 10.2 BHEL or (B.H.E.Ltd)** shall mean Bharat Heavy Electricals Limited a Company registered under Indian Companies Act 1956, with its Registered Office at BHEL House, Siri fort, New Delhi 110 049 or its Authorized Officers or its Resident Engineer or other employees authorized to deal with any matters with which these persons are concerned on its behalf.

10.3 “GENERAL MANAGER”

Shall mean the officer in Administrative charges of contracting unit of BHEL.

- 10.4 “ENGINEER”** or “ENGINEER IN CHARGE” shall mean Engineer who is in-charge for the works referred.

- 10.5 “SITE”** shall mean the place or places at which the plants/equipments are to be erected and services are to be performed as per the specification of this contract.

- 10.6 “CONTRACTOR”** shall mean the individual, firm or company who enters in to this contract with BHEL and shall include their executors, administrators and successor and permitted assignees.

- 10.7 “CONTRACT”** or “CONTRACT DOCUMENT” shall mean/and include the agreement or work order, the accepted appendices of rates, schedules, quantities, if any and general conditions of contract, the special conditions of contract, instructions to the bidders, the drawings, the technical specifications, the special specifications, if any, the tender documents and the Letter of Intent/Acceptance Letter issued by BHEL. Any conditions or terms stipulated by the contractor in the tender document or subsequent letters shall not form part of the contract unless specially accepted in writing by BHEL, in the Letter of intent and incorporated in the agreement.

- 10.8 “GENERAL AND SPECIAL CONDITIONS OF CONTRACT”** shall mean the “Instructions to Bidders and General and Special Conditions of Contract” pertaining to the work for which the bidders are called for.

- 10.9 “TENDER SPECIFICATIONS”** shall mean the “SPECIFIC CONDITIONS, Technical specifications, appendices, site information’s and drawings” pertaining to the work in which the bidders are required to submit their offer, Individual specification number will be assigned to each tender specification..

- 10.10 “TENDER DOCUMENTS”** shall mean the General and Special Conditions of Contract (10.8) and tender specification (10.9).

- 10.11 “LETTER OF INTENT”** shall mean the intimation by a letter to the bidder that the tender has been accepted in accordance with provisions contained in that letter. The responsibility of the contractor commences from the date of issue of this letter and all the terms and conditions of contract are applicable from this date.

- 10.12 “COMPLETION TIME”** Shall mean the period by date specified in the acceptance of tender or date

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mutually agreed upon for handing over of the erected equipment/plant which is found acceptable by the Engineer being of required standard and conforming to the specifications of the contract.

10.13 “PLANT” shall mean and cannot the entire assembly of the plant and equipment covered by the contract.

10.14 “EQUIPMENT” shall mean all equipment, machinery, materials, structural, electrical and their components of the plant covered by the contract.

10.15 “TESTS” shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL in order to ascertain the quality, workmanship, performance and efficiency of the contract work or part thereof.

10.16 “APPROVED” “DIRECTED” or “INSTRUCTED” shall mean approved, directed or instructed by BHEL.

10.17 “WORK OR CONTRACT WORK” shall mean and include supply of all categories of labor specified consumables, tools and tackles required for complete and satisfactory site transportation handling, stocking, storing, erecting, testing, and commissioning of the equipment to the entire satisfaction of BHEL.

10.18 “SINGULAR AND PLURAL ETC” works carrying singular number shall also include plural and vice versa, where the context so required. Words importing the masculine gender shall be taken to include the feminine gender and words imparting persons shall include any company or association or body of individuals, whether incorporated or not.

10.19 “HEADINGS”

The headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.

10.20 “MONTH” shall mean calendar month, unless specified otherwise in the tender.

10.21 “WRITING” shall include any manuscript typewritten or printed statement under the signature of BHEL.

10.22 LAW GOVERNING THE CONTRACT AND COURT JURISDICTION

The contract shall be governed by the Law for the time being in force in the Republic of India, and shall be subject to the Jurisdiction of the courts having Jurisdiction over RANIPET (VELLORE Dist, Tamil Nadu).

10.23 ISSUE OF NOTICE:

The Contractor shall furnish to the BHEL ENGINEER the name, designation and address of his authorized agent and all complaints, notices, communication and reference shall be deemed to have been duly given to the contractor or his authorized agent or left or posted to the address of either the contractor or of his representative and shall be deemed to have been so give in the case of posting on the day on which they would have reached such address in the ordinary course of post or on which they were so delivered of / or left.

10.24 USE OF LAND:

No land belonging to BHEL or their customer under temporary possession of BHEL shall be occupied by the Contractor without the written permission of BHEL.

11 COMMENCEMENT OF WORKS:

- 11.1** The Contractor shall commence the works within the time indicated in the Letter of Intent from BHEL and shall proceed with the same with due expedition without delay.
- 11.2** If the successful bidder fails to start the work within the stipulated time, BHEL, at his sole discretion will have the right to cancel the contract. His earnest money and/or Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL's other rights and remedies in this regard.
- 11.3** All the works shall be carried out under the direction and to the satisfaction of BHEL.
- 11.4** The erected/constructed plant or work performed under this contract shall be taken over when it has been completed in all respects and/or satisfactorily put in to operation at site.

12 MODE OF PAYMENT AND MEASUREMENT OF THE WORK COMPLETED:

- 12.1** All payments due to the contract shall be paid through E-PAYMENT (EFT / RTGS) only. The contractor has to furnish acceptance for e-payment, duly indicating the bank account details in the prescribed format.
- 12.2** For Progress running bill payment :
- The contractor shall present detailed measurement working sheets, in quadruplicate, duly indicating all relevant details based on technical documents and connected drawings for work done during the month/period under various categories in line with terms of payment as per letter of intent. The basis of arriving at the quantities/weight shall be the relevant documents and drawings released by BHEL.
- 12.3** These measurement working sheets will be checked and vetted by BHEL Engineers and quantities and percentage eligible for payment under various groups shall be decided by BHEL engineers. The abstract of quantities and percentage so arrived based on the terms of payment shall be entered in Measurement Book and signed by both the parties.
- 12.4** Based on the above quantity, contractor shall prepare the bills in prescribed Performa and work out the financial value. These will be entered in Measurement Book and signed by both the parties and paid duly effecting recoveries due.
- 12.5** All recoveries due from the contractor for the month/period shall be effected in full from the corresponding running bills unless specific approval from the competent authorities is obtained otherwise.
- 12.6** Measurement shall be restricted to that for which it is required to ascertain the financial liability of BHEL under this contract.
- 12.7** The measurement shall be taken jointly by persons duly authorized on the part of BHEL and by the contractor.
- 12.8** The contractor shall bear the expenditure involved, if any, in making the measurement. The contractor shall, without extra charges provide all the assistance with appliances and other things necessary for measurement.
- 12.9** If, at any time due to any reason, whatsoever, it becomes necessary to re-measure the work done in full or in part, the expenses towards such re-measurements shall be borne by the contractor.
- 12.10** Passing of measurement as per bills does not amount to acceptance of the completion of the work

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mentioned. Any left out work has to be completed if pointed out at a later date by BHEL.

12.11. Final measurement bill shall be prepared in the final bill preformed prescribed for the purpose based on the certificate issued by BHEL Engineer that entire work as stipulated in the tender specification has been completed in all respects to the entire satisfaction of BHEL. Contractors shall give unqualified „No Due and „No Demand certificate. All the tools and tackles loaned to them should be returned in condition satisfactory to BHEL. Quantities/Weight erected shall be prepared and paid, within a reasonable time after completion of work. After payment of final bill, only guarantee obligation percentage shall remain unpaid which shall be released in accordance with terms of payment. The final bill quantities and financial value shall also be entered in Measurement Book and signed by both the parties to the contract.

13 RIGHTS OF BHEL

BHEL reserves the following rights in respect of this contract without entitling the contractor for any compensation.

13.1 To get the work done through other agency at the risk and cost of the Contractor, in the event of Contractor's poor progress, or inability to progress the work, persistent disregard in instruction of BHEL, assignment transfer, subletting of the contract without permission of BHEL, non fulfillment of any contractual obligation etc., and to recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from Security Deposit / other dues.

13.2 To withdraw any portion of work and/or to restrict/alter quantum of work as indicated and get it done through other agency and/or with departmental labor to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons/BHEL's obligation to its customer.

13.3 To terminate the contract after due notice to cause forfeiting of Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of:

- 1) Contractor's continued poor progress.
- 2) Withdrawal from or abandonment of the work before completion of the work.
- 3) Corrupt act of contractor.
- 4) Insolvency of the contractor.
- 5) Persistent disregards to the instructions of BHEL.
- 6) Assignment transfer, sub-letting of the contract without BHEL's permission.
- 7) Non-fulfillment of any contractual obligations.

13.4 To recover any money due from the contractor from any money due to the contractor under this contract or any other contract or from the Security Deposit.

13.5. LD/Penalty : To claim compensation for losses sustained including BHEL's supervision charges and overheads for completion on termination of contract and to impose penalty for delay in completion of the work at the rate of ½% of the contract value per week of delay or part thereof subject to a ceiling of 10% of contract value. If any delay is there for completion of a particular BOQ, penalty/LD at the rate of ½% of the particular BOQ value per week of delay or part thereof subject to

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a ceiling of 10% of particular BOQ value.

- 13.6** To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contracts with their customers are terminated for any reason.
- 13.7** To affect recovery from any amount due to the contractor under this or any other contractor in any other form the moneys BHEL is forced to pay to anybody, due to contractor's failure to fulfill any of his obligation.
- 13.8** To restrict or increase the quantity and nature of work to suit the site requirements since the tender specification is based on preliminary documents and quantities furnished there in are indicative and approximate and the rates quoted shall not be subject to revision.
- 13.9** To deploy BHEL's fitters, welders, operators and technicians in case of emergency/poor progress/deficiency in skill on the part of employees of contractor's and to recover the expenditure on account of the same from contractor's bills.
- 13.10** While every endeavor will be made by BHEL they cannot guarantee un-interrupted work to the contractor due to conditions beyond their control. Contractor will not be entitled for any compensation extra payment on his account.
- 13.11** In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.

14) RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS Etc.

The following are the responsibilities of the Contractor in respect of observation of local laws, employment of personnel, payment of taxes etc.

- 14.1** As par as possible unskilled workers shall be engaged from the local areas in which the work is being executed.
- 14.2** The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals, religious and other customs.
- 14.3** The contractor shall comply with all state and Central Laws, Statutory Rules, Regulations etc., inclusive of those regarding labour and industrial laws which are applicable from time to time and they shall comply with the provisions of the said labour legislations, rules and regulations framed under the provisions of Employees Provident Fund and Miscellaneous Provisions Act 1952 shall be strictly followed.
- 14.4** The contractor shall pay all taxes, including sales Tax on works contract if any fees, license, charges, deposits duties, tool royalty commissions or other charges which may be leviable on account of any of his operations in execution of the contract in case BHEL is forced to pay any of such taxes. BHEL shall have the right to recover the same from the contractor either from his bills or other wise as deemed fit.
- 14.5** The contractor shall be responsible for provision of health and sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act) safety precautions etc., as may be required for safe and satisfactory execution of the contract.
- 14.6** The contractor shall be responsible for providing proper accommodation including adequate medical

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facilities for the personnel employed by him.

- 14.7** The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.
- 14.8** The contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused it is the responsibility of the contractor to make good the losses or compensate for the same.
- 14.9** All the properties/equipments/components of BHEL their client loaned with or without deposit to the contractor in connection with contract shall remain the properties of BHEL/their client. The contractor shall use such properties for purpose of execution of this contract, all such properties/equipments/components shall be deemed to be in good condition when received by the Contractor's unless he notifies within 48 hours to the contrary. The Contractor shall return them in good condition as and when required by BHEL/their client. In case of non-return, loss, damage, repairs etc, the cost thereof, as may be fixed by the site Engineer, will be recovered from the Contractor.
- 14.10** It is not obligatory on the part of BHEL to supply any tools and tackles or other materials other than those specifically agreed to do so by BHEL. However, depending upon the availability/ possibility BHEL's customer's handing equipment and other plants may be made available to the contractor on payment of the hire charges/free of charges, as fixed subject to the conditions laid down by BHEL/Customer from time to time. Unless paid in advance such hire charges if applicable shall be recovered from contractor's bills/security deposit in one installment.
- 14.11** The Contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of erection/construction/performing work under the contract.
- 14.12** In case the Contractor is required to undertake any work outside the scope of this contract the rate payable shall be those mutually agreed upon.
- 14.13** Any delay in completion of works/non-achievement of periodical targets, due to reasons attributable to the contractor, the same will have to be compensated by the Contractor either by increasing manpower and resources or by working extra hours and/or by working more than one shift. All these are to be carried out by the contractor at no extra cost.
- 14.14** The contractor shall arrange and co-ordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.
- 14.15** All safety rules and codes applied by the client/BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guard's signs etc, or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view prevent pilferage, accidents, fire hazards and due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of clerical staff, watch and ward, store keepers to take care of equipment, materials and construction tools and tackles shall be posted at site by the contractor till the completion of the work under this contract. The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite site tests of handling equipments, lifting tools, tackles, etc., as per prescribed standards and practices.
- 14.16** The contractor will be directly responsible for payment of wages to his workmen. A pay roll sheet giving all the type payments given to the workers and duly signed by the contractor's representative should be furnished to BHEL Site office on or before 15th of every succeeding month.

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- 14.17** In case of any class of work for which there is no such specification as laid down in the Contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.
- 14.18** No levy of payment or charge made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied or demanded or charged.
- 14.19** Also no idle labour charges will be admissible in the event of any stoppage caused in the work resulting contractor's labour being rendered idle due to any cause at any time.
- 14.20** The contractor shall take all reasonable care to protect the materials and work till such time the plant/equipment has been taken over by BHEL/their client.
- 14.21** Contractor shall not stop the work or abandon the site for whatsoever reason or dispute, excepting for force major conditions. All such problems/dispute shall be separately discussed and settled without affecting the progress of work. Such stoppage or abandonment shall be treated as breach of contract and dealt with accordingly.

15) CONSEQUENCES OF CANCELLATION:

- 15.1** Whenever BHEL exercises its authority to terminate the contract/withdraw a portion of work under the clause 13 they may complete the work by any means. In the event of the cost of completion as certified by the site Engineer which is final and conclusive being less than the contract cost, the advantage shall accrue to BHEL and that if the cost of completion exceeds the moneys due to the contractor under the contract, the contractor shall either pay the excess amount ordered by BHEL or the same shall be recovered from the contractor by any other means. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per the relevant clauses.
- 15.2** In case BHEL completes the work under the provision of this condition, the cost of such Completion to be taken into account in determining the excess cost to be charged to the contract under this condition, shall consist of materials purchased and/or labour provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.

16) INSURANCE:

- 16.1** It is sole responsibility of the contractor to insure his workmen against accidents and injury while at work as required by relevant Rules and to pay compensation, if any, to workmen as per workmen's Compensation Act. The work will be carried out in a protected area and all the rules and regulations of the client/BHEL in the area of project which are in force from time to time will have to be followed by contractor.
- 16.2** If due to negligence and/or non-observance of safety and other precautions, any accident/injury occurs to any other persons/public, the contractor shall have to pay necessary compensation and other expenses if so decided by the appropriate authorities.
- 16.3** If due to contractor's carelessness, negligence of non-observance of safety precautions damage to BHELs /customers property and personnel should occur and if BHEL is unable to recover in full cost from the insurance company, the same will be recovered from the contractor.
- 16.4** It shall be the responsibility of the contractor to provide security arrangement for the materials belonging to BHEL and handed over to the contractor for erection/transportation till the same are taken over by BHEL after erection/returned to BHEL stores.

17) STRIKES & LOCKOUTS:

- 17.1** The contractor will be fully responsible for the entire dispute and other issues connected with his

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labor. In the event of the contract labor resorting to strike or the contract resorting to lock-out and if the strike or lock-out declared is not settled within a period of one month, BHEL, shall have the right to get the erection work executed employing its own labor or through any agencies or both and the cost so incurred by BHEL be deducted from the contractor's bills.

17.2 For any purpose whatsoever the employees of the contractor shall not be deemed to be in the employment of BHEL.

18) FORCE MAJEURE:

18.1 The following shall amount to FORCE MAJEURE :

Act of God or of any Government, War, Sabotage, Riots, Civil commotion, Police action revolution, Flood, Fire, Cyclones, Earth quake and epidemic and other similar causes over which the contractor has no control.

18.2 If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by FORCE MAJEURE as defined above, the agreed time of completion of the job covered by this contract or the obligation of contractor shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency the contractor immediately reports to BHEL in writing the causes of delay and the contractor shall not be eligible for any compensation.

19) TERMS AND CONDITIONS OF REVERSE AUCTION

1) BHEL reserves the right to go for reverse auctioning among the technically qualified bidders who have been short listed after technical bid evaluation.

2) "BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno commercial evaluation. All bidders to give their acceptance for participation in RA.

Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit "online sealed bid" in the Reverse Auction. Non-submission of "online sealed bid" by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue."

BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).

1) For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.

2) Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit „online sealed bid" in the Reverse Auction. Non-submission of „online sealed bid" by the bidder for any of the eligible items for which techno-commercially qualified, will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

3) BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.

4) In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.

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- 5) Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
- 6) Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
- 7) In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
- 8) Reverse auction will be conducted on scheduled date & time.
- 9) At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
- 10) The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
- 11) In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL"s standard practice.
- 12) Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the „Business Rules of Reverse Auction“, which will be communicated before the Reverse Auction.
- 13) If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action *as per extant BHEL guidelines*, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
- 14) The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
- 15) In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.
- 16) BHEL reserves the right to negotiate with the L1 tenderer emerged out of Reverse Auction if the L1 amount is more than the estimated amount.

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GENERAL INSTRUCTIONS TO TENDERERS

1. Sealed Tenders for the work mentioned in the Schedule are invited from Contractors experienced in works of similar kind and magnitude.

2. Tenders must be submitted **in sealed covers** and should be addressed to

**Deputy General Manager ,
WCM Department,
Bharat Heavy Electricals Limited,
RANIPET – 632 406.**

The Name, Address of the Bidder and the name of work shall be clearly mentioned on the cover.

3. Tenders will be received up to 14.00 hrs. on 25.11.2016 in the prescribed form and will be opened on 25.11.2016 at 14.30 hrs onwards at WCM Office in the presence of such of those Bidders or their agents who may choose to attend.

4. Bidder should sign and seal each and every page of the tender document including the drawings/annexure attached thereto before submitting the tender.

5. Tenders not submitted in the prescribed forms are liable for rejection.

6. In quoting the rates, the Bidders are advised to take into account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.

7. GENERAL CONDITIONS OF CONTRACT FOR WORKS, GENERAL INSTRUCTIONS TO BIDDERS, drawings, specifications and other documents also form part of the agreement to be entered into.

8. In the event of tender being submitted by a firm, the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the Power of Attorney on behalf of the firm concerned. In the latter case, a copy of the Power of Attorney duly attested by a Gazette Officer must accompany the tender.

9. The Bharat Heavy Electricals Limited, reserves the right to reject any or all the tenders received or accept any tender or part thereof without assigning any reason there for. In case of acceptance of a part of tender, time for completion may also be reduced to the extent considered appropriate by the accepting authority.

10. Unit rates should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule.

11. The quoted rates shall also include expenditures towards complying statutory payments like Provident fund, ESI payments, bonus etc. for the labourer & staff deployed in the work.

12. The contractor will have to submit the Service Tax Registration certificate to BHEL and claim the Service Tax from BHEL by submitting Tax invoice as per Rules & Regulations of Service Tax and the documentary evidence will have to be submitted along with the next bill. If for any reason, the contractor has to pay penalty, interest on service tax, the contractor has to bear such additional payment. BHEL will pay only the service tax at actual. **The Bharat Heavy Electricals Limited will not entertain any claim in this regard.**

13. If the bidder find discrepancies or omissions in the tender documents or should be in doubt as to their meaning, he should at once address the authority inviting the tender for clarification. Every endeavor is made to avoid any error which can materially affect the basis of the tender but the successful

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Bidder shall take up on himself to provide for the risk of any error which may be subsequently discovered and shall make no subsequent claim on account thereof.

14. PAYMENT TERMS :

Monthly post payment shall be paid based on actual work done by the contractor as per BOQ after certifying by Engineer in-charge and duly submit the necessary statutory documents (PF, ESI etc.)

15. Should a Bidder or a contractor has a relative or in the case of a firm or company of contractors any of its shareholders or shareholder's relative, employed in Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender failing which tender may be disqualified or if such fact subsequently come to light, the contract may be rescinded.
16. If the Bidder expires after submission of his tender, the Bharat Heavy Electricals Limited may be at the discretion of cancel such tender.
17. If a partner of a firm expires after submission of the tender or after the acceptance of the tender, Bharat Heavy Electricals Limited may cancel such tender at the discretion unless the firm retains his character.
18. The Bharat Heavy Electricals Limited will not bound by any Power of Attorney granted by the Bidder or changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contract concerned.
19. The contractor deliberately, gives wrong information in his tender or creates conditions favorable for the acceptance of his tender; Bharat Heavy Electricals Limited reserves the right to reject the tender at any stage.
20. Words imparting the singular number shall also deem to include the plural number and vice versa where the context so requires.
21. The General and Special Conditions of Contract are complimentary to each other and where they are in conflict, the Special Conditions shall prevail. In regard to matters not covered by the General or Special Conditions of Contract, those contained in the specifications approved by Bharat Heavy Electricals Limited shall apply.
22. Canvassing in any form in connection with the tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable for rejection.
23. All contractors will have to produce Income Tax clearance certificate from the Income Tax authorities concerned along with their tenders. Those contractors whose income is not taxable will be required to give an affidavit of their income on the prescribed form.
24. **The contractor should posse's necessary licenses, Permanent PF A/c No, and should take Insurance for his workers and produce them before commencement of work. The Contractor shall insure all his materials, tools, tackles etc. and also for third party.**
25. **COMPLIANCE TO REGULATIONS AND BY-LAWS**

The Contractor shall conform to the provisions of any statute relating to the work and regulations and By-laws of any local authority. The Contractor shall be bound to give all notices required by statute

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regulations or By-Laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

- a) The contractor shall maintain the detailed list of employees engaged during the contract execution period.
 - b) The contractor shall also maintain attendance details of the employees and register of payment and a copy of the details shall be submitted to the authorized official every months along with the bill for verification.
 - c) As per employees PF and misc. provisions Act 1952, the employee's contribution payable at present is 12% of wages which shall be recovered by the Contractor from the wages of his workmen and the contractor should pay equal contribution in addition to any administrative charges in this behalf that may be decided from time to time. Remittance shall be made on time (i.e. on or before 15th of the following month).
 - d) All the contract workers shall be enrolled in ESI (Employees' State Insurance). The effective date will be first day of the latest commencement of running contract concerned. The date shall be entered in the 'Date of Appointment' column of the ESI Declaration Form. The workers who are already members of ESI need not be enrolled again.
 - e) The filled ESI declaration forms shall be submitted to the Executive (HR-CLX, REX). In the Declaration Form full address of the contractor shall be mentioned. Whenever a fresh and unregistered worker is engaged during the operation of contract, declaration form in respect of that workman which should be submitted to Human Resources Department within two days of such engagement.
 - f) ESI contributions (1.75% employee's contribution + 4.75% employer contribution of the total monthly wages) before 20th day of every following month. Prescribed challans are available at ESI local office, Ranipet (near Sipcot). Contractors who have got their own code number can remit the contributions on that number.
 - g) Along with the challan copy, the details of remittance shall be submitted to the Executive (HR-CLX, REX) in the ESI compliance form.
26. The contractor should deduct Provident Fund and ESI amount as per the provisions and amount so deducted along with the matching contribution of the contractor shall be remitted to the authorities concerned within the stipulated time. The statement of deduction along with the challans evidencing remittance shall be submitted to Officer-in-charge. If the evidences are not shown, further bills of the contractor will not be paid.
- BHEL have the right to withhold the payment of his bills. Submission of statutory returns such as Half Yearly returns of ESI (Form 6), P.F. return (Form 12A), Form 5 and Form 10, Form 3A & Form 6A should be send to the concerned officers in time.
27. In case of any increase in wage rates on account of revision of minimum wages by Government of Tamil Nadu and any revision of rate of contribution in Provident Fund, ESI and Bonus percentages due to statutory amendments, the contractor is bound to pay the revised amount. In case the revision of minimum wages is made by Government of Tamil Nadu with retrospective dates, the contract is bound to pay such arrears arising out of such revision of minimum wages retrospectively, failing which BHEL as the principal employer will retain the amount from the contractor and pay to contract labourers working under him.
28. The workers' particulars such as Name, Age, Father's name, address etc., and their daily attendance have to be maintained by the contractor. The details of Provident Fund and ESI compliance have to be maintained by the contractor in the prescribed format/register.

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29. As per the Contract (Regulation & Abolition) Act, 1970 & Allied Rules, the contractor employing 20 or more labourers is required to obtain license from the Inspector of Labour, Vellore. This license shall be amended and/or renewed whenever there is an increase in the workman employed by him or in the event of contract being extended or renewed. The contractor shall inform the License Number so obtained to the Human Resources Department.
30. The contractor shall maintain the following Registers and Records and make them available for inspection at any time. (The list is only for example, but not exhaustive).
- a) Muster Roll
 - b) Register of Wages
 - c) Register of Deductions
 - d) Register of Overtime
 - e) Register of Fine
 - f) Register of Advance
 - g) Wage slips
 - h) Register of Accidents
 - i) Register of Leave with Wages
 - j) ESI Register in Form-7.

All registers are required to be maintained as above and shall be produced as and when Government Officials and Statutory Authorities to make inspection from time to time.

31. In case a contract labourer meets with an accident while on duty, the contractor shall immediately intimate the information to Safety Department, Contracting Agency and Human Resources Department and submit the Accident Report duly filled in all respect and send a copy to ESI local office, ESI Dispensary and Inspector of Factories (for major accidents) with in 24 hours of accident through Safety and Human Resources Departments. All assistance for the injured workman such as to taking him to ESI Dispensary for treatment must be rendered by the contractor.
32. Compliance of the above provisions does not absolve the obligation of contractor arising out of other statutory obligations.
33. Employment of child labour is strictly prohibited.
34. Contractor should employ only persons having sound health and not below the age of 18 years.
35. Payment of Bonus: In respect of work done by the labour, the contractor has to pay to his labourers as laid down by the Payment of Bonus Act – 1965.
36. The Bidder should be present if called for negotiation both technical and commercial. In case, the Bidder's authorized person is attending the negotiation such person should have the authorization letter and he should be capable of taking spot decisions.
37. In case the Bidder is not interested in submitting your quotation, they should return all the tender papers with a covering letter stating that your regrets for not submitting your offer for this tender.
38. If required bidders may visit the site/working area and obtain all clarifications from Tender Issuing Officer regarding the nature of job before offering their quotation.
39. The bidder shall clearly indicate all the applicable Taxes in the Price Bid and also shall state clearly whether these taxes are inclusive or exclusive of the Basic rate quoted. If any tender does not indicate applicable taxes, BHEL will assume, price quoted is inclusive of all Taxes and Tender will be evaluated accordingly.
40. The contractor should submit a notarized copy of the following documents.
- i. Pan card.
 - ii. TN VAT registration certificate.
 - iii. Service tax registration certificate.

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41. The contractor shall indicate all the applicable taxes in the offer and any claim after the issue of contract will not be entertained.
42. In case if any Taxes not applicable, like due to threshold limit etc. Same may be clearly indicated in the offer by the Bidder.
43. **Free Issue Materials:**

* The below quantity is only approximate.

ANNEXURE- A			
Free materials supplied by BHEL while executing the contract.			
S. No	Material Description	Quantity	Unit
1	Any core up to 35 sq.mm PVC AR/UN AR aluminum/copper cable	6000	Mtrs
2	Any core exceeds 35 sq.mm but not exceeds 95 sq.mm PVC armored/un armored aluminum/copper cable	1000	Mtrs
3	Any core exceeds 95 sq.mm but not exceeds 185 sq.mm PVC armored/un armored aluminum/copper cable	1500	Mtrs
4	Any core exceeds 185 sq.mm but not exceeds 400 sq.mm PVC armored/un armored aluminum/copper cable	1000	Mtrs
5	Fluorescent / CFL fitting and lamp	150	No's
6	1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting with lamp	450	No's
7	Ceiling fan	150	No's
7	Supply of resistance type / electronic type ceiling fan regulator	45	No's
8	MAIN PANEL all sizes and capacity	16	No's
9	DB and ICTPN all capacity	50	No's
10	Man cooler, starter and Exhaust fan	56	No's
11	ICTPN & LTPN	60	No's
12	DSL Insulator	25	No's
13	Spare components for all type of Light fitting	450	No's

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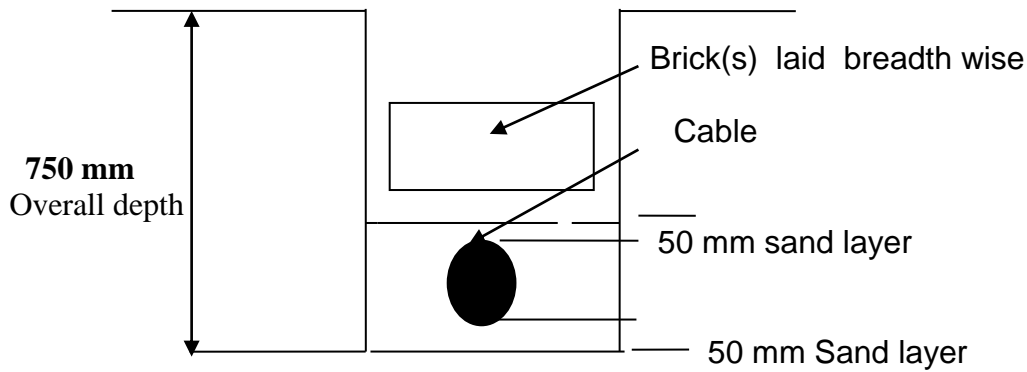
TECHNICAL INSTRUCTIONS

1. Fuse switches / switch fuses shall be of any one of the following make only Gec Alstom, L&T, GEC.
2. The DP switches, SP Switches, plugs and sockets shall be of standard make agreeable to Engineer in charge and should have been certified by ISI.
3. All materials supplied by the contractor should conform to the relevant IS / BS specification.
4. Single core, Single / Multi strand cables shall be of ISI approved make only, The armored cable shall be of ISI approved make only, Test Certificate of cables are to be submitted.
5. The wiring shall conform to IS 732 or any other relevant INDIAN STANDARD SPECIFICATION and INDIAN ELECTRICITY RULES. The installation shall also conform to the regulation for the electrical equipment of building laid down by Insurance Association of India (Fire Section).
6. In case of PVC / steel conduit wiring the switches, plug sockets, regulators and other controls should be mounted on metal boxes. These boxes as well as metal boxes used for street light controls should be fabricated as per IS: 5133 (part – 1 1969).
7. Final lay out, as well as Electrical drawings etc., should be submitted in advance for BHEL's approval.
8. Preparation of Electrical drawings, submitting the same to CEA / Local TNEB authorities to obtain EB Service connection etc. is under the contractor's scope.
9. The contractor should be present at the time of inspection of the installation by the Electrical Inspector. Any defect pointed out by the Electrical Inspector in the equipment (or) installations supplied by the contractor should be immediately rectified by the contractor free of cost.
10. The 'Completion Report' should be submitted as per Appendix-F of IS 732.
11. **Recommended makes of different accessories:**

S. NO	Name of accessory	Recommended make
01	Luminaries	Philips, GEC, Crompton, Bajaj, Havells
02	Ceiling fans	Orient, Crompton, Usha, Khaitan, Havells, Almonard
03	Switches / Sockets	Anchor, Kundan, Record with FAN / LIGHT marking
04	ICDP / ICTPN Switches	Bosma, Standard, GEM, GE, Raj
05	MCBs /	MDS Loadster, legrand, L&T, Hager, Siemens
06	Rotary switches	Salzer, Kaycee, Siemens, L&T
07	Metal Clad sockets & plugs	Sakthi Crown, B&C/Crompton, BCH
08	Single core cable	ISI approved make only
09	Armored cable	ISI approved make only
10	Fuse Distribution Boards	Bosma, Raj, GE, GEM, Standard
11	Exhaust fans	Orient, Crompton, Usha, Khaitan, Havells, Almonard
12	Combination Fuse Switches	GEC Alstom make

12a) IF CABLE / CABLES HAVE TO BE LAID IN GROUND THE FOLLOWING SPECIFICATIONS SHOULD BE FOLLOWED.

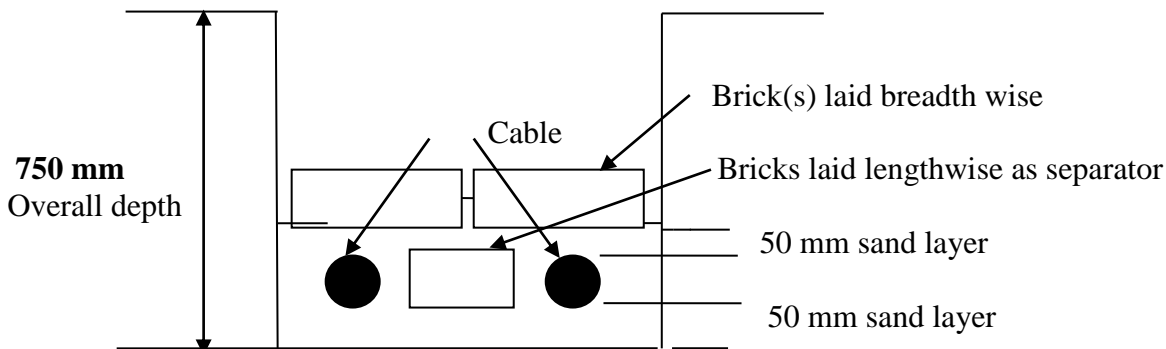
For LOW TENSION cable SINGLE run



12b) If MORE than ONE cable:

For LOW TENSION cables DOUBLE run (or) more the cables shall be laid as shown below:

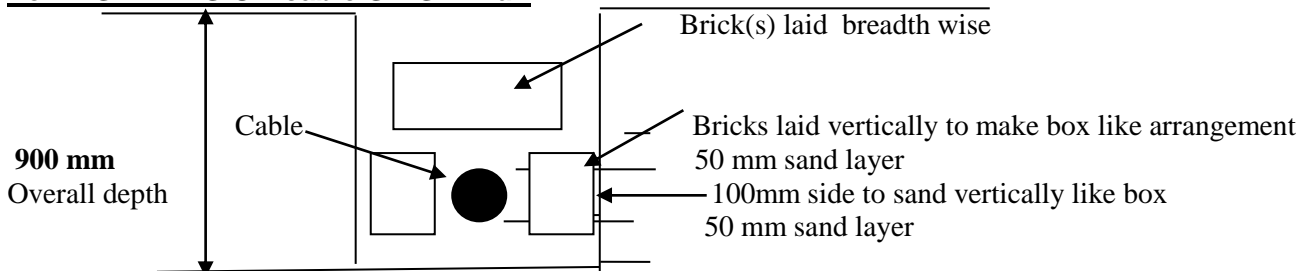
The cables should be laid in horizontal plane. The **trench should be excavated** to a depth and breadth, such that the cables will be laid at a **minimum depth of 750 mm in horizontal plane** as shown above. Spread 50 mm deep layer of sand below the cables. Lay the cables in horizontal plane & place **good quality bricks** in between **them length wise continuously all along the cable / trench**. Further sand filling to be done for 50 mm over the cables.



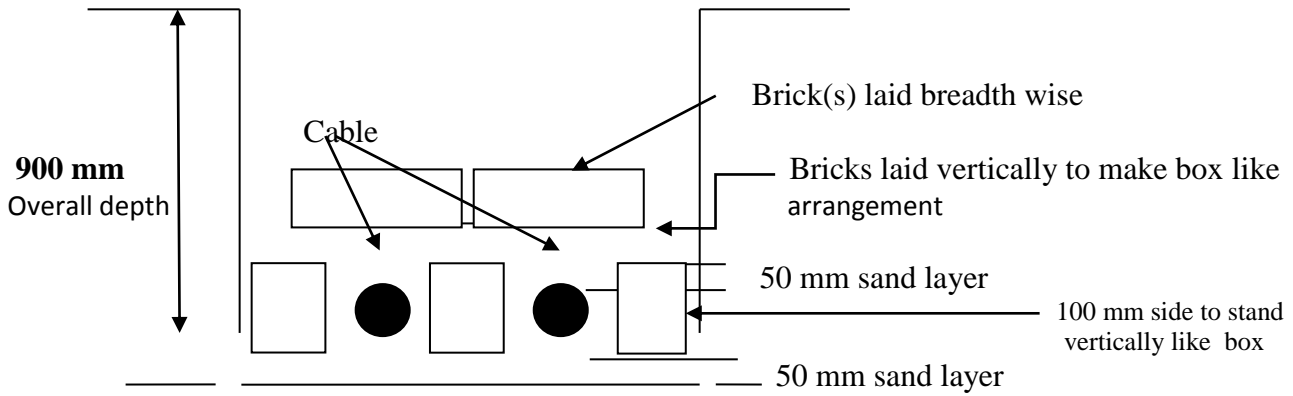
Lay good quality bricks breadth wise only and cover the sand layer all along the cable / trench. Then complete the earth filling. The bricks shall be of good quality with size 100 mmx75mmx225mm.

13a) For HIGH TENSION / 11 KV cable the trench should be excavated to a depth, such that the cable will be laid at minimum depth of 900 mm. Spread 50 mm deep layer of sand below the cable in trench. After laid the cable, lay good quality bricks length wise and vertically sideways to make box like arrangement covering both sides of the cable as shown below. Spread 50 mm deep layer of sand above the cable. Lay good quality bricks breadth wise only and cover the sand and brick layer all along the cable / trench. Then complete the earth filling. The bricks shall be of good quality with size 100 mm x 75 mm x 225 mm.

For HIGH TENSION cable SINGLE run



13b) For HIGH TENSION cables DOUBLE run (or) more the cables shall be laid as shown below:



14) In case where cables have to be taken across the road, the pipes have to be laid across the road & the pipes will be supplied by BHEL. However if pipes are already available across the road, the cables have to be taken through that available pipes.

Cable 'Route Indicator' / 'Joint indicator' should be provided once in 20 Metre.

Cable 'Route Indicator' / 'Joint indicator' has to be supplied by the contractor.

15) In case of cable laying in open trench / wall / column, the cable has to be taken with proper clamping in cable trench / wall / column. The clamps are to be supplied by the contractor. End termination of the cable is inclusive of supply and using of Pin / Eye type, Aluminum/Copper sockets, Glands, MS adopter boxes, Earthing of Glands & adopter boxes with 8 SWG (or) 7/20 GI wire.

16) In case of open trench / wall / column, cables have to be taken with proper clamping either in cable racks / wall / column. The clamps have to be supplied by the contractor.

End Termination for the cable include supply and using solerless crimping type tinned copper lugs, glands and if necessary cable adaptor boxes etc. and earthing the glands and adaptor boxes with 8 SWG/7/20 GI wire.

17) For all sheet metal fabrication, pre-treatment of all metals with acid and rust preventing chemical has to be carried out and two coats of red oxide and one coat of stove enameling paint has to be applied by spray painting.

18) The Contractor is required to cover their employee / labourers against any risk.

19) **PANELS:**

Cubicle / Industrial Type switch boards should be manufactured by any of the reputed manufacturer, if the make of the switch board is not specifically mentioned in the detailed specification of the board who have sufficient experience in manufacture of electrical switch boards. The switch board has to be approved by BHEL before dispatch to work spot.

All sheet steel used in the manufacture of Main Panel boards should not be less than 2 mm thick Ms sheet metal. The Main Panel board has to be approved by BHEL before dispatch to the work spot.

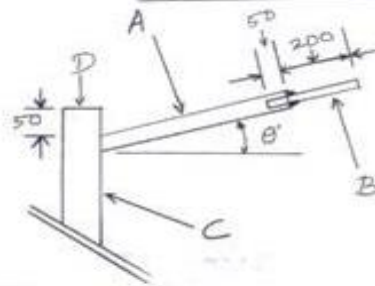
For all sheet metal fabrication, pre treatment of all metal with acid and rust preventing chemicals has to be carried. Two coats of red oxide and one coat of recommended color paint has to be applied by spray painting.

20) Earth pits to be constructed as per drawing BHEL:M&S:EL:PLNG:001-08 only

Drawings

MS Pipe Bracket Drawing
[To fix Road Light fitting]

Dwg No: ES: M&S: 2A

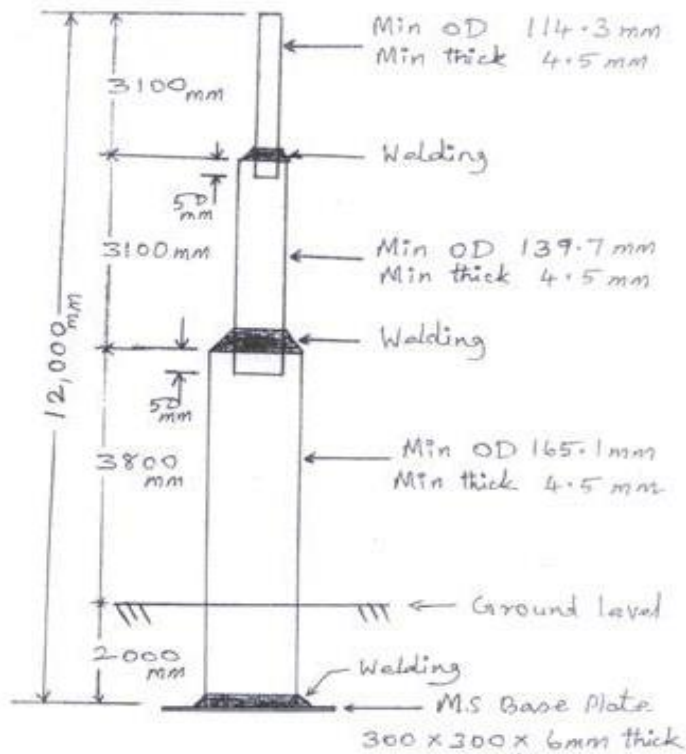


Note:

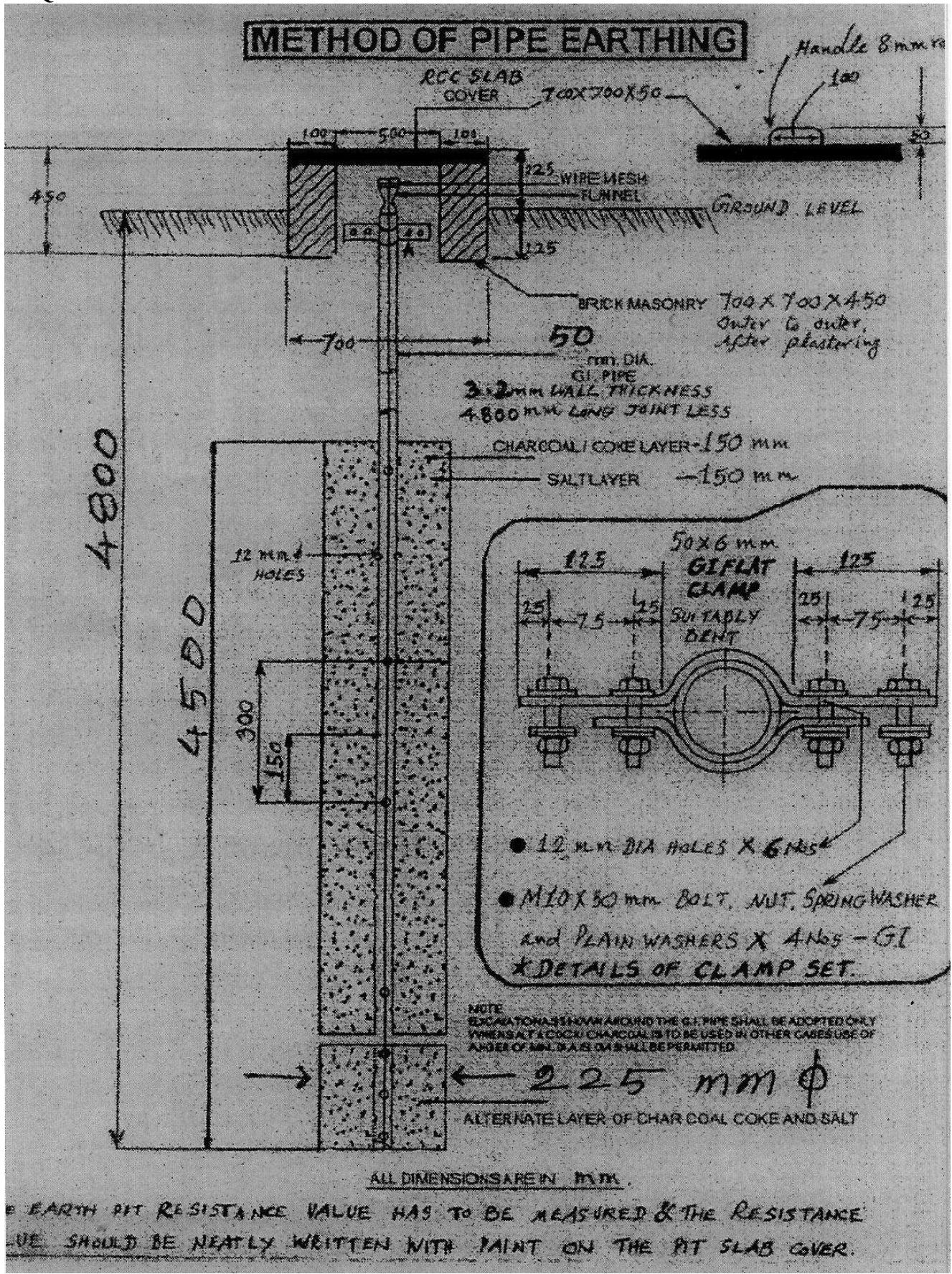
1. A - MS pipe - 76.9 ϕ , 3.25 mm thick, 1000 mm length
2. B - MS pipe - 50 mm ϕ , 3.25 mm thick, 200 mm length
3. C - Existing MS pole
4. D - MS pipe top to be closed by using 3mm thick (min) MS plate.
5. θ - To be decided as per site conditions.

S. Muthukumar
Sr. Addl. Engineer - I
Electrical Services / M&S
NHIL / BAP / Bangalore - 560 016

MS Tubular Pole Drawing
As per IS 2713 [Part I to III] 1980
Dwg No: ES: M&S: 1



S. Muthukumar
Sr. Addl. Engineer - I
Electrical Services / M&S
NHIL / BAP / Bangalore - 560 016



Drawing no: BHEL:M&S:EL:PLNG:001-08.



ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	NAME & ADDRESS OF THE SUPPLIER / VENDOR PHONE NO. WITH STD CODE	PAN NO. <input type="text"/>	
02	VENDOR CODE (as in WORK ORDER)	<input type="text"/>	
03	Details of Bank Account:		
A)	NAME & ADDRESS OF THE BANK (WITH PIN CODE)	<input type="text"/>	
B)	BANK TELEPHONE NUMBER (WITH STD CODE)	<input type="text"/>	
C)	BANK BRANCH CODE:	<input type="text"/>	
D)	MICR CODE	<input type="text"/>	
E)	ACCOUNT NUMBER	<input type="text"/>	
F)	TYPE OF ACCOUNT	CURRENT / OD / CASH CREDIT	
G)	VENDOR NAME AS PER BANK RECORDS	<input type="text"/>	
H)	BANK BRANCH RTGS IFSC CODE	<input type="text"/>	
I)	BANK BRANCH NEFT IFSC CODE	<input type="text"/>	
J)	VENDOR'S EMAIL ID (give two ids)	<input type="text"/> <input type="text"/>	
K)	NAME OF AUTHORISED SIGNATORY	<input type="text"/>	

CERTIFICATE

I / We hereby agree to receive the payments due from BHARAT HEAVY ELECTRICALS LIMITED, RANIPET by the National Electronic Funds Transfer and/or RTGS Transfer mode by credit to my / our above mentioned Bank Account. I / We also agree that payments made to the above mentioned Account is a valid discharge of the liability of Bharat Heavy Electricals Limited, Ranipet. I / we also agree to bear the applicable Bank Charges for the above mode of transfer.

AUTHORISED SIGNATORY OF VENDOR WITH SEAL

Banker's Certification

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

PLACE:

DATE:

(Manager / Officer's
Signature Under Bank stamp)
Authorisation No. _____

Note: This EFT Form is to be submitted duly filled in manually in all fields and duly signed by Authorised Signatory and certified by Banker.

PART-II (PRICE BID)**BILL OF QUANTITY**

Name of the Work: Electrical Petty Works.

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
1	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes direct in ground including excavation, sand cushioning, protective covering and refilling the trench etc as required. (cable will be supplied by BHEL free of cost at stores)					
	1.1 Up to 35 sq.mm	Metre	1100	3.02%		
	1.2 Above 35 sq.mm and Upto 95 sq.mm	Metre	825	2.35%		
	1.3 Above 95 sq.mm and Upto 185 sq.mm	Metre	825	2.44%		
	1.4 Above 185 sq.mm and Upto 400 sq.mm	Metre	550	1.81%		
LAYING OF ADDITIONAL CABLE IN SL.NO:1						
2	Laying of one number additional PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes direct in ground in the same trench in one tier horizontal formation including excavation ,sand cushioning ,protective covering and refilling the trench etc as required. (cable will be supplied by BHEL free of cost at stores)					
	2.1 Up to 35 sq.mm	Metre	110	0.21%		
	2.2 Above 35 sq.mm and Upto 95 sq.mm	Metre	220	0.44%		
	2.3 Above 95 sq.mm and Upto 185 sq.mm	Metre	550	1.16%		
	2.4 Above 185 sq.mm and Upto 400 sq.mm	Metre	220	0.53%		
LAYING OF CABLE ON WALL SURFACE						
3	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes on surface as required. (cable will be supplied by BHEL free of cost at stores).					
	3.1 Up to 35 sq.mm (Clamped with 1mm thick saddle)	Metre	825	0.28%		
	3.2 Above 35sq.mm and Up to 95 sq.mm (Clamped with 25x3mm MS flat Clamp)	Metre	550	0.54%		
	3.3 Above 95sq.mm and Up to 185 sq.mm (Clamped with 25/40x3mm MS flat Clamp)	Metre	220	0.25%		
	3.4 Above 185sq.mm and Up to 400 sq.mm (Clamped with 40x3mm MS flat Clamp)	Metre	110	0.18%		
LAYING OF CABLE ON CABLE TRAY						
4	Laying and fixing of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes on Cable Tray as required. (cable will be supplied by BHEL free of cost at stores).					
	4.1 Up to 35 sq.mm (Clamped with 1mm thick saddle)	Metre	550	0.16%		
	4.2 Above 35sq.mm and Up to 95 sq.mm (Clamped with 25x3mm MS flat Clamp)	Metre	275	0.19%		
	4.3 Above 95sq.mm and Up to 185 sq.mm (Clamped with 25/40x3mm MS flat Clamp)	Metre	220	0.18%		
	4.4 Above 185sq.mm and Up to 400 sq.mm (Clamped with 40x3mm MS flat Clamp)	Metre	110	0.14%		
LAYING OF CABLE IN GROUND WITHOUT SAND AND PROTECTIVE COVERING						

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
5	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following size direct in ground including excavation and refilling the trench, but excluding sand cushioning and protective covering. (cable will be supplied by BHEL free of cost at stores)					
	5.1 Upto 35 sq.mm	Metre	330	0.40%		
	5.2 Above 35 sq.mm and Upto 95 sq.mm	Metre	550	0.74%		
	5.3 Above 95 sq.mm and Upto 185 sq.mm	Metre	550	0.79%		
	5.4 Above 185 sq.mm and Upto 400 sq.mm	Metre	110	0.19%		
LAYING OF CABLE IN RCC/HUME/METAL PIPE						
6	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes in the existing RCC/HUME/METAL PIPE (cable will be supplied by BHEL free of cost from stores).					
	6.1 Up to 35 sq.mm	Metre	825	0.19%		
	6.2 Above 35sq.mm and Up to 95 sq.mm	Metre	550	0.19%		
	6.3 Above 95sq.mm and Up to 185 sq.mm	Metre	220	0.10%		
	6.4 Above 185sq.mm and Up to 400 sq.mm	Metre	110	0.09%		
LAYING OF CABLE ON OPEN DUCT						
7	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes in the existing masonry open dut as required. (cable will be supplied by BHEL free of cost from stores).					
	7.1 Up to 35 sq.mm	Metre	550	0.09%		
	7.2 Above 35sq.mm and Up to 95 sq.mm	Metre	550	0.16%		
	7.3 Above 95sq.mm and Up to 185 sq.mm	Metre	220	0.08%		
	7.4 Above 185sq.mm and Up to 400 sq.mm	Metre	110	0.08%		
INSTALLATION & TESTING						
8	Installation, testing and commissioning of pre-wired Fluorescent fitting / CFL fitting of all types, complete with all accessories and tube etc. directly on ceiling / wall, including connection with 1.5sq.mm FR PVC insulation, copper conductor, single core cable and earthing etc, as required. (fitting and lamp will be supplied by BHEL free of cost).	Each	22	0.03%		
9	Installation,testing and commissioning of resistance type ceiling fan regulator, in existing switch box including connection with 1.5 sq.mm FRLS PVC insulation, copper conductor, single core cable and earthing the regulator etc, as required. (Regulator will be supplied by BHEL free of cost).	Each	11	0.01%		
SUPPLY AND FIXING						
10	Supply and fixing danger notice plate of following sizes, made of mild steel, at least 2 mm thick, and enamelled white on both sides, and with description in single red colour on front side as required.			0.00%		
	10.1 For Medium Voltage 200 mm x 150 mm	Each	11	0.02%		
	10.2 For High Voltage 250 mm x 200 mm	Each	11	0.02%		
11	Supply and fixing cable route marker with 10cm x 10cm x 5cm thick G.I plate with inscription there on, bolted / welded to 35mm x 35mm x 6mm angle iron, 60 CM long and fixing the same in ground as required.	Each	55	0.22%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
12	Supply and fixing of following sizes of Medium class PVC conduit along with accessories in surface / recess including cutting the wall and making good the same in case of recessed conduit as required.					
	12.1 20 mm	Metre	165	0.12%		
	12.2 32 mm	Metre	55	0.07%		
	12.3 50 mm	Metre	55	0.11%		
13	Supply and replacing the defective switch/socket and fixing a new switch / socket on the existing switch box and having equivalent quality of Make : Anchor , GM , Havells.					
	13.1 5/6 amps switch.	Each	550	0.26%		
	13.2 15/16 amps switch.	Each	55	0.06%		
	13.3 5/6 amps socket outlet.	Each	550	0.32%		
	13.4 6 pin 15/16 amps socket outlet.	Each	33	0.04%		
14	Supply and Wiring for circuit / submain wiring along earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in surface / wall with recessed steel conduit , as required.					
	14.1 (2 x 1.5 sq.mm) + (1 x 1.5 sq.mm Earth wire)	Metre	440	1.09%		
	14.2 (2 x 2.5 sq.mm) + (1 x 2.5 sq.mm Earth wire)	Metre	825	2.33%		
15	Supply and Wiring for circuit / submain wiring along earth wire with the following sizes of FRLS PVC insulated copper conductor single core cable in surface / wall with recessed 2mm thick PVC conduit , as required.					
	15.1 (2 x 1.5 sq.mm) + (1 x 1.5 sq.mm Earth wire)	Metre	2750	4.11%		
	15.2 (2 x 2.5 sq.mm) + (1 x 2.5 sq.mm Earth wire)	Metre	3300	6.10%		
SUPPLY AND MAKING JOINTS						
16	Supply and making straight through joints with cast resin compound including ferrules and other jointing materials for following size of PVC insulated and PVC sheathed / XLPE aluminium armored/unarmored conductor cable of 1.1KV grade as required.					
	16.1 3 x 50 sq.mm	Each	6	0.17%		
	16.2 3.5 x 50 sq.mm	Each	6	0.19%		
	16.3 3.5 x 70 sq.mm	Each	6	0.20%		
	16.4 3.5 x 95 sq.mm	Each	6	0.24%		
	16.5 3.5 x 185 sq.mm	Each	11	0.71%		
	16.6 3.5 x 300 sq.mm	Each	3	0.26%		
INSTALLATION & TESTING						
17	Installation and Testing of 1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting with lamp, of all type on the column / wall / post / tower / roof with down rod, supporting angle, necessary fixtures etc. (Supply of downrod and supporting angle will be contractor scope). (fitting and lamp will be supplied by BHEL free of cost) at stores.	Each	165	2.25%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
18	Installation, Testing and Commissioning of ceiling fan and regulator including supply and wiring the down rods of standard length (up to 30 cm) with 1.5 Sq.mm FRLS PVC insulation, copper conductor, single core cable and earthing etc, as required. (Supply of downrod will be contractor scope) (fan will be supplied by BHEL free of cost) at stores.		66	0.27%		
19	Erection of 400/800Amps MAIN PANEL of following sizes a) Necessary MS channel of size 100mmx50mm shall be supplied and provided for the erection of MP atleast 1 support for a length of 1 metre. b) The support channels shall be neatly fixed across the cable trench, by welding or grouting. c) The MS channels shall be thoroughly cleaned and painted with one coat of red-oxide and two coat of enamelled paint as required. (The main panel alone will be supplied by BHEL free of cost) at stores.			0.00%		
19.1	2Metre length	Each	1	0.09%		
19.2	3Metre length	Each	1	0.12%		
19.3	4Metre length	Each	1	0.14%		
19.4	5Metre length	Each	1	0.19%		
20	Fixing of following ways 63A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adopter box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection, masonry work and etc as required. (Iron frame and adopter will be contractor scope). (The DB and ICTPN will be supplied by BHEL free of cost) at stores.					
20.1	4 way DB, 100A ICTPN as incomer	Each	3	0.16%		
20.2	8 way DB, 200A ICTPN as incomer	Each	3	0.18%		
21	Fixing of following ways 32A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adopter box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection, masonry work and etc as required. (Iron frame and adopter will be contractor scope), (The DB and ICTPN will be supplied by BHEL free of cost) at stores.					
21.1	4 way DB, 63A ICTPN as incomer	Each	6	0.28%		
21.2	8 way DB, 100A ICTPN as incomer	Each	6	0.30%		
21.3	12 way DB, 200 ICTPN as incomer	Each	3	0.16%		
22	Fixing of following ways 16A/20A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top and bottom entry MS cable adopter box on suitable iron frame work or iron frame stand to be fixed on the concrete floor with necessary inter-connection, masonry work and etc as required. (Iron frame and adopter will be contractor scope), (The DB and ICTPN will be supplied by BHEL free of cost) at stores.					
22.1	8 way DB, 63A ICTPN as incomer	Each	3	0.14%		
22.2	12 way DB, 100A ICTPN as incomer	Each	3	0.15%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
23	Fixing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler along with suitable DOL starter on iron frame work, with 3 pole 6 amps MCB, in 2mm thick MS box, the iron frame and MS box to be fixed on column / wall with necessary fixtures etc. (Man cooler and starter will be supplied by BHEL) at stores, (MS box and MCB will be contractor scope) .		17	0.40%		
24	Installation, Testing and Commisioning of Exhaust fans up to 510mm sweep single phase by making holes to suit on the wall, required masonry work to making good the damage, including connection as required. (Exhaust fan will be supplied by BHEL) at stores.	Each	11	0.08%		
25	Fixing of following capacity ICTPN/LPTPN type disconnecter fuse switch unit on the existing cubicle panel board with MS cable entry adoptor box (top/bottom) with necessary fixtures etc, including drilling holes in cubicle panel, making connections, etc as required. (supply of Adaptor box in a contractor scope). (ICTPN/LPTPN will be supplied by BHEL) at stores.					
	25.1 32 Amp TPN / FP	Each	6	0.06%		
	25.2 63 Amp TPN / FP	Each	6	0.07%		
	25.3 100 Amp TPN	Each	6	0.07%		
	25.4 200 Amp TPN	Each	6	0.11%		
	25.5 315/400 Amp TPN	Each	6	0.14%		
26	Fixing following capacity ICTPN / LPTPN type disconnecter fuse switch unit on suitable iron frame work on floor/wall/column with (2 mm thick) MS cable entry adoptor box on (top and bottom) with necessary inter-connection, masonry work and etc as required. (supply of Adaptor box and iron frame will be contractor scope). (ICTPN/LPTPN will be supplied by BHEL) at stores.					
	26.1 32 Amp TP&N	Each	6	0.10%		
	26.2 63 Amp TP&N	Each	11	0.24%		
	26.3 100 Amp TP&N	Each	6	0.18%		
	26.4 200 Amp TP&N	Each	6	0.19%		
	26.5 315/400 Amp TPN	Each	2	0.07%		
27	Numbering of ceiling fan / exhaust fan / flourescent fittings as required. Make: nerolac, asian, tractor. (paint, brush will be contractor scope).	Each	55	0.02%		
28	Supply and painting with one coat of red oxide as primer and two coats of synthetic enamel of selected colour on metal surfaces of Transformers/ DB / MP / Isolators / Street Light Pole / Fencing / Steel structures/ Angles / Bracing / Column etc. with Paint having equivalent quality of make:nerolac, asian, tractor.	sq ft	5500	2.40%		
SUPPLY AND FIXING						
29	Supply and fixing of galvanized MS (2mm thick plate) cable tray of size 200mm width and 150mm height with cover on ground using jumber bolt.	Mtr	22	0.22%		
30	Supply and fixing suitable clamps and necessary fixtures for existing PVC / STEEL (19mm/24mm/36mm) conduits on wall / surface / column.	Mtr	55	0.02%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
31	Supplying and fixing of metal box (2mm thick) with cover of following sizes (Nominal size) on surface / wall / recess with Phosphatized and powder painted, locking facility as required.					
	31.1 100 mm x 100 mm x 60 mm deep	Each	33	0.05%		
	31.2 200 mm x 250 mm x 60 mm deep	Each	83	0.26%		
	31.3 200 mm x 150 mm x 100 mm deep	Each	22	0.06%		
	31.4 250 mm x 300 mm x 60 mm deep	Each	28	0.14%		
32	Supply and replacing / fixing of following rating of socket and switch on following size of metal box (nominal size) on surface / wall / column / recess with suitable size of phenolic laminated sheet cover in front including providing and fixing ,interconnections,painting etc as required.					
	32.1 MS box of 150 mm x 75 mm x 60 mm deep, 5 / 6 Amps socket outlet and flushtype switch	No	22	0.16%		
	32.2 MS box of 180 mm x 100 mm x 60 mm deep, 15 / 16 Amps socket outlet and flushtype switch	No	83	0.75%		
33	Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 volts, on surface / wall / column /recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing, as required. (with out MCB) and having equivalent quality of make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.					
	33.1 4 way ,single door	Each	6	0.10%		
	33.2 8 way ,single door	Each	6	0.14%		
	33.3 12 way ,single door	Each	6	0.17%		
34	Supplying and fixing 4way, single door, horizontal type three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface / wall /recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing, as required. (with out MCB) and having equivalent quality of MCB make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.	Each	6	0.24%		
35	Supplying and fixing 5 Amps to 32 Amps rating, 240 / 415 volts, 'C' Curve, MCB suitable for inductive load of following poles in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.					
	35.1 Single pole	Each	55	0.24%		
	35.2 Double pole	Each	28	0.30%		
	35.3 Triple pole	Each	11	0.17%		
	35.4 Triple pole & neutral	Each	11	0.26%		
36	Supplying and fixing following rating double pole MCB, 240 volts, in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.			0.00%		
	36.1 40 amps	Each	6	0.11%		
	36.2 63 amps	Each	6	0.13%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
37	Supplying and fixing following rating four pole MCB, 415 volts, in the existing MCB DB, complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.					
	37.1 40 amps	Each	6	0.19%		
	37.2 63 amps	Each	6	0.23%		
38	Supply and fixing of following rating of MCB with connection and earthing and necessary fixtures as required and having equivalent quality of MCB. MAKE: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.					
	38.1 63Amps TPN MCB On the existing distribution board/MS box	Each	6	0.16%		
	38.2 32Amps TPN MCB On the existing distribution board/MS box	Each	6	0.15%		
	38.3 32Amps DP MCB On the existing distribution board/MS box	Each	6	0.13%		
	38.4 25Amps TPN MCB On the existing distribution board/MS box	Each	6	0.11%		
	38.5 25Amps DP MCB On the existing distribution board/MS box	Each	6	0.07%		
39	Supplying and fixing of metal clad socket of Best & Crompton / Sakthi Crown make with plug top along with suitable rating MCB as given, in 2mm thick MS box, on surface / wall / recess / Column / ground, with cover for the socket outlet and complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB. make:GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.					
	39.1 1phase, 3 pin, 10 Amps socket & plug top and 10 Amps DP MCB.	Each	22	0.55%		
	39.2 1phase, 3 pin, 20 Amps socket & plug top and 20 Amps DP MCB.	Each	28	0.78%		
	39.3 3phase, 4 pin, 20 Amps socket & plug top and 20 Amps TP MCB.	Each	28	1.13%		
	39.4 3phase, 4 pin, 30 Amps socket & plug top and 30 Amps TP MCB.	Each	22	1.14%		
40	Supplying and fixing three phase 30 Amps ,415 volt, 5-pin TPN industrial type socket outlet with 4pole and earth metal enclosed plug top along with 30Amps MCB, c curve TPMCB in sheet steel enclosure or in recess, with chinel metal cover, for the socket outlet and complete with connections, testing and commissioning etc, as required and having equivalent quality of MCB Make: GE, MDS, Siemens, legrand, Havells, Kundan, Fybros.	Each	28	1.69%		
41	Supply & fixing steel wire mesh for three phase column mounted / tabular / pedestal mancoolers with necessary binding wires etc.,	Each	22	0.14%		
42	Supply and laying of following earth strip / wire / bus on surface / wall / recess connections as required.			0.00%		
	42.1 50x6mm GI flat for earthing.	Metre	220	1.42%		
	42.2 25x6mm GI flat for earthing.	Metre	550	1.98%		
	42.3 25mm x 5mm G.I earth strip	Metre	55	0.12%		
	42.4 25x3mm GI flat for earthing.	Metre	550	0.79%		
	42.5 8 SWG GI wire	Metre	660	0.47%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
42.6	14 SWG G.I wire	Metre	55	0.03%		
42.7	8 SWG copper wire	Metre	55	0.05%		
42.8	14 SWG Bare Copper wire	Metre	330	0.21%		
42.9	25mm x 6 mm copper flat	Metre	22	0.13%		
42.10	50mm x 6 mm copper flat	Metre	22	0.27%		
43	Supply and fixing of weather proof (2mm thick) MS box of size 200mm height x 240mm length x 150mm depth with one coat of red oxide and 2 coat of alu. paint for street light with 1 No of 15A fuse carrier and 6 way 15A connector.	Each	83	0.48%		
44	Supply and fixing calling bell / buzzer suitable for single phase, 230V, complete as required.	Each	6	0.02%		
45	Supply, Installation, testing and commisioning of following sweep size Exhaust fan, single phase,1420 rpm fan with suitable mounting rings, brackets and resilient rubber cushions and with necessary fixtures and with self closing louvers, by making holes to suit on the wall, making good the damage, including connection as required and having equivalent quality. Make: Almonard, Havells, Crompton, Orient, Khaithan.					
45.1	450mm sweep	Each	22	1.36%		
45.2	300mm sweep	Each	11	0.47%		
45.3	150mm sweep	Each	6	0.13%		
46	Removing the existing old exhaust fan and Supply, Installation, testing and commisioning of following sweep size Exhaust fan, single phase,1420 rpm fan with suitable mounting rings, brackets and resilient rubber cushions and with necessary fixtures and with self closing louvers, on the existing wall, including connection as required and having equivalent quality. Make:Almonard, Havells, Crompton, Orient, Khaithan.			0.00%		
46.1	450mm sweep	Each	22	1.27%		
46.2	300mm sweep	Each	11	0.40%		
46.3	150mm sweep	Each	6	0.11%		
47	Supply and fixing of Electronic type 5 step speed regulator for AC, single phase, ceiling fan having equivalent quality of make: ANCHOR, USHA, Orient, POLAR, Kundan, FYBROS.	Each	132	0.95%		
48	Supply and Installation of 230V AC, single phase, double ball bearing, white/ivory colour ceiling fan of following size sweep with mounting ring, brackets and resilient rubber cushions and downrod of standard length (up to 30 cm) and wiring the down rods with 1.5sq.mm FR PVC, connection as required and having equivalent quality of fan. make: Almonard, Usha, Crompton, Orient, Khaithan. (Fan should not be thread type head).					
48.1	600mm sweep	Each	6	0.15%		
48.2	1200 mm sweep	Each	6	0.22%		
	Supply and Installation of FL / CFL of following rating of lamp fitting with lamp having equivalent quality of make: Havells, Philips, Wipro with fitting and necessary fixtures etc on wall/ceiling.					

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
49	49.1	20W flourescent tube	Each	11	0.03%	
	49.2	23W CFL	Each	11	0.08%	
	49.3	18W CFL	Each	11	0.06%	
	49.4	1x(36/40)W FL patti type fitting with lamp	Each	11	0.08%	
	49.5	1x(36/40)W FL box type fitting with lamp	Each	11	0.09%	
	49.6	2x(36/40)W FL box type fitting with lamp	Each	6	0.06%	
50		Supply, installation, testing and commisioning of wall / column mounting, vertical type, 415V, TPN, MCB distribution board of sheet steel , dust protected duly phosphatized and powder painted, inclusive of 200Amps tinned copper Busbar, comman neutral link, earth bar, din bar for mounting MCB's, gland / knock out plate and with 100Amps, 10KA MCCB as incomer interconnection between incomer MCCB and busbar of following ways as required,without MCB. (where three phase outlets are required) and having equivalent quality of Make:GE, Siemens, MDS, legarnd, Havells .				
	50.1	4 way DB,100amps MCCB as incomer	Each	6	0.43%	
	50.2	8 way DB,100amps MCCB as incomer	Each	2	0.23%	
	50.3	12 way DB, 100amps MCCB as incomer	Each	2	0.35%	
51		Supply and Erection of mettalic street light standard pole of length as follows in cement concrete 1:3:6 fountation with cement concrete collar of size 0.4m dia x 0.5m height to accomodate, pole with pipe bracket, coil earthing, 2 Nos of each 1.5 mtrs long GI pipe embedded on concrete suitable for taking out 2 core 16 / 10 sq.mm. PVCA Al. cable with necessary, looping cable end box, excavation and refilling etc, as required. (The Pole and MS Pipe bracket shall be Fabricated as per BHEL drawing nos:ES:M&S:1,2A and as per IS 2713(Part-I to Part-III)-1980).			0.00%	
	51.1	Above 4.5 metre and upto 6.5 metre	Each	6	0.56%	
	51.2	Above 8.0 metre and upto 10.0 metre	Each	6	0.78%	
	51.3	Above 10.0 metre and upto 12.0 metre	Each	3	0.52%	
END TERMINATION						
52		Supply and making of end termination with brass single compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium armoured/unarmored conductor cable of 1.1KV grade as required				
	52.1	3 x 50 sq.mm	Each	22	0.11%	
	52.2	3 x 300 sq.mm	Each	11	0.09%	
	52.3	3.5 x 50 sq.mm	Each	22	0.11%	
	52.4	3.5 x 70 sq.mm	Each	11	0.06%	
	52.5	3.5 x 95 sq.mm	Each	44	0.26%	
	52.6	3.5 x 185 sq.mm	Each	33	0.26%	
	52.7	3.5 x 300 sq.mm	Each	39	0.50%	

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
52.8	4 x 16 sq.mm	Each	59	0.17%		
53	Supply and making of end termination with brass single compression gland and copper lugs for following size of PVC insulated and PVC sheathed / XLPE copper armoured/unarmoured conductor cable of 1.1KV grade as required.					
	53.1	3 x 50 sq.mm	Each	6	0.05%	
	53.2	3.5 x 25 sq.mm	Each	88	0.44%	
	53.3	3.5 x 35 sq.mm	Each	77	0.46%	
	53.4	3.5 x 50 sq.mm	Each	11	0.09%	
	53.5	3.5 x 70 sq.mm	Each	6	0.06%	
	53.6	3.5 x 95 sq.mm	Each	11	0.13%	
	53.7	3.5 x 120 sq.mm	Each	6	0.08%	
53.8	3.5 x 185 sq.mm	Each	11	0.16%		
SUPPLY AND WIRING						
54	Supply and Wiring for light point / fan point / calling bell point with 1.5sq.mm FR PVC insulated copper conductor in surface / wall, with flush type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5sq.mm FR PVC insulated copper cable etc as required. (1 point shall be consider as 7metre distance more than 7metre shall be calculated in running metres as per SL.NO:55 & 56).					
	54.1	PVC conduit (open wiring)	Point	440	6.01%	
	54.2	recessed PVC conduit (concealed wiring)	Point	11	0.16%	
	54.3	PVC flat conduit	Point	11	0.16%	
	54.4	using steel conduit	Point	11	0.21%	
55	Supply and Wiring for twin control light point with 1.5sq.mm FR PVC insulated copper conductor in surface / wall, with 2 way flush type switch, phenolic laminated sheet, suitable size MS box and earthing the point with 1.5sq.mm FR PVC insulated copper cable etc as required.					
	55.1	using steel conduit	Point	6	0.12%	
	55.2	PVC conduit	Point	6	0.10%	
56	Rewiring for light point (1 way/2 way) / fan point / exhaust fan / calling bell / socket point with following size FR PVC insulated copper conductor and same size as earth wire in existing surface / wall / recess including dismantling as required.					
	56.1	1.5 sq.mm	Point	11	0.08%	
	56.2	2.5 sqmm	Point	22	0.24%	
MAINTENANCE OF EARTH PIT AND ERECTION OF EARTH PIT						
57	Corroded worn out damaged fasteners should be replaced with GI fasteners of not less than 8 mm by the contractor . If drilling is needed, the contractor shall bring their own drilling machine.	Pit	55	0.02%		
58	Corroded / worn out funnels shall be replaced by the contractor wherever necessary.	Each	33	0.07%		
	Earthing with G.I pipe of 40mm dia 4500mm long, including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc, with charcoal and salt as required.(the size of pit, clamping and connections are as per drawing of BHEL:M&S:EL:PLNG:001-08.)			0.00%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
59	59.1 The Earth pit excavation may have to be done in ordinary soil	Each	6	0.60%		
	59.2 The Earth pit excavation may have to be done in soft rock	Each	6	0.73%		
	59.3 The Earth pit excavation may have to be done in hard rock	Each	28	4.23%		
60	Replacing and fixing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler on existing iron frame, on column / wall with necessary fixtures etc. (Man cooler will be supplied by BHEL)	Each	11	0.05%		
REMOVING						
	Removing of one number PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes from underground including excavation, refilling the same trench etc as required.			0.00%		
61	61.1 not exceeding 25sq.mm	Metre	55	0.07%		
	61.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	Metre	55	0.08%		
	61.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	Metre	110	0.20%		
	Removing of one number PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade of following sizes from wall / trench / rack / floor.			0.00%		
62	62.1 not exceeding 25sq.mm	Metre	1100	1.18%		
	62.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	Metre	1100	1.35%		
	62.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	Metre	825	1.13%		
	Removing end termination of PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade.					
63	63.1 not exceeding 25sq.mm	Each	110	0.19%		
	63.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	Each	44	0.12%		
	63.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	Each	44	0.15%		
64	Removing of 1 x 40W, 2 x 40W box / patti type fitting from wall / ceiling and handing over the same to the department.	Each	110	0.32%		
65	Removing of street light 250W HPSV/ HPMV MH / lamp fitting and lamp.	Each	55	0.32%		
66	Removing of ceiling fans with regulator and handing over the same to the department.	Each	55	0.16%		
67	Removing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler along with DOL starter and handing over the same to the department..	Each	11	0.09%		
68	Removing of MCB DB/FDBs of 4/8/12ways 16A/32A/63A, from wall/steel structure etc..,	Each	11	0.03%		
69	Removing of Isolators / Fuse Switch Units of 32/63/100/200/315 and 400A from wall/steel structure etc..,	Each	33	0.14%		
70	Removing of old PVC conduit / steel conduit wirings and wires from surface / wall / recess and handing over to the section.	Metre	1320	0.76%		
71	Removing of wornout / damaged DSL insulator and replacing new DSL insulator with necessary fixtures. (Insulator will be supplied by BHEL free of cost).	Each	28	0.08%		
REPAIRING						
	Removing the light fittings from the location, replacing of bulb / ignitor /choke / starter and refixing the same after proving their performance. (All the spares components will be supplied by BHEL free of cost).					
	72.1 1x40W FL. Fitting	Each	330	1.19%		

SL. NO	DESCRIPTION	UNIT	QTY (a)	% impact on the overall cost	QUOTED RATE (b)	TOTAL AMOUNT (c) = (a) x (b)
72	72.2	2x40W(or)2x65W FL. Fitting	Each	55	0.22%	
	72.3	2x20 / 3x20 / 4x20 / 2x14 / 2x36 / 3x36W FL / CFL.	Each	55	0.24%	
	72.4	1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting	Each	440	3.48%	
	72.5	Hi mast light	Each	33	0.28%	
	72.6	Flame proof FL. Fitting	Each	6	0.03%	
73	Without removing light fittings from the location, replacing bulb / ignitor /choke and proving their performance.(All the spare components will be supplied by BHEL free of cost) . 1x400W / 2x400W / 250W /125W / 2x14W / 2x36W / 3x36W / 40W FL / CFL / HPMV / HPSV / MH roof / column / wall / pole light fitting.	Each	440	0.69%		
74		Removal, replacing the defective components in the following size fan and refixing the same at the original location after proving their performance. (All the spares components will be supplied by BHEL free of cost)				
	74.1	up to 510mm Exhaust fan	Each	22	0.09%	
	74.2	up to1200mm ceiling fan	Each	165	0.71%	
CLEANING				0.00%		
75	General cleaning of THREE PHASE column mounted /tubular man cooler in production shop floors.	Each	11	0.04%		
76	General cleaning of SINGLE PHASE ceiling / pedestal fan.	Each	550	0.24%		
77	General cleaning of cubicle cable trench (open the trench cover and cleaning and removing the unwanted items and covering the trench).	cu. metre	1320	0.47%		
MAINTENANCE OF EARTH PIT AND ERECTION OF EARTH PIT						
78	Pouring 60 litres of water (approximately) in the funnel of every earth pit. (The required hose pipe and bucket shall be arranged by the contractor).	Pit	110	0.03%		
79	Measurement of earth electrode resistance, Grid earth resistance values. The contractor shall bring the required periodically calibrated Earth Tester with leads, spikes, tools etc as per relevant IS.	Pit	220	0.14%		
80	Writing legibly the details of the reading on the earth pit cover. The details will be given by the concerned supervisor. The details shall be written .Good quality paint shall be used for background and white colour paint for lettering. (Paint and brush will be supplied by BHEL free of cost).	Pit	220	0.63%		
81	Earth pits and its surrounding shall be cleaned by the contractor using their own tools.	Pit	220	0.06%		
82	Removing the existing damaged masonry work & providing new masonry work enclosure with slab and watering pipe along earthing with GI plate of 600mm x 600mm x 6mm.	Set	50	2.76%		
83	Sub total (a)					
84	Service tax Amount @ _____% (b)					
85	Grand total including service tax (a+b)					
Note :						
1. Service tax amount mentioned above "vide sl.no.84 excludes service tax amount towards BHEL free issue materials".						
2. Please refer clause no.51 (page no. 14) of Special Instructions of this Tender regarding Service tax.						