



Bharat Heavy Electricals Limited
Boiler Auxiliaries Plant
Ranipet - 632 406
Tamil Nadu, India
M&S DEPARTMENT

Phone: 04172-284623

Email : plramana@bhelrpt.co.in

M&S DEPARTMENT

BAP: M&S: CONTRACTS:

Oct 18, 2012

To

The Bidders

Dear Sirs,

Sub: Electrical Petty works in factory premises - Two years – reg.
Ref: Tender Notice No. BAP:M&S:TE:EL:12:018:DT:18.10.2012

Please find enclosed / attached non-transferable tender document containing Notice inviting tender, qualification requirements, Brief scope of work , general conditions of contract (GCC) for works, special instructions to bidders, technical instructions, Bill of Quantities etc. to offer your most competitive rates for all the items.

- 1) **EMD shall be in the form of DD.** Bidders who had already remitted one time EMD (Rs.Two lakhs) should furnish the details of cash receipt No. _____Dt. _____, with a covering letter. Tender without EMD / without reference to one time EMD will be summarily rejected. All Demand Draft shall be drawn in favour of **Manager / Finance, BHEL, Ranipet** payable at SBI, Mukundarayapuram Branch (Code: 7013), Ranipet -6" .
- 2) Document has to be signed by the bidder in all the pages.
- 3) Price bid has to be duly filled in and signed by the bidder in all the pages. **The bidder has to quote most competitive rates in Part – II, Price bid .**

The completed bid along with requisite EMD of **Rs.1, 00, 000/-** (Rs. One Lakh only) for the work in the form of Demand Draft in favour of BHEL, Ranipet shall reach the office of the undersigned on or before **15.11.2012 at 14.30 hrs.** EMD in any other form will not be accepted.

The tender (Technical bid) will be opened on the **15.11.2012 at 14.30 hrs.** In case of opening day falls on holiday or happened to be declared as a holiday, the receipt and opening of the tender shall automatically fall on the same timing of the next working day. You / your authorized Representative may participate in the tender opening.

Clarification if any, can be obtained contacting following phone No. 04172 – 284623 / 9442509822

Thanking you,

Yours faithfully
For and on behalf of
Bharat Heavy Electricals Limited,

Senior Manager / M& S Planning & ES

TENDER DOCUMENT

TENDER NOTICE NO: BAP: M&S: TE: EL:12:018:DT:18.10.2012

Name of work	Electrical Petty Works
Period of Contract	Two Years

Issued to M/s. :

**PART – I – TECHNICAL BID
(or Qualification Bid)
(Pages 1 to 44)**



**MAINTENANCE & SERVICES DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
BOILER AUXILIARIES PLANT
INDIRA GANDHI INDUSTRIAL COMPLEX
RANIPET – 632 406**

CONTENTS

CHAPTER	DESCRIPTION	PAGE
	<u>PART – I– TECHNICAL BID</u>	
1	NOTICE INVITING TENDER	4 to 7
2	ACCEPTANCE FOR EFT	8
3	QUALIFICATION REQUIREMENTS (QR)	9 to10
4	DETAILS TO BE FILLED BY BIDDER	11
5	CERTIFICATE OF NO DEVIATION	12
6	BRIEF SCOPE OF WORK & SPECIAL CONDITIONS	13 to 14
7	GENERAL CONDITIONS OF CONTRACT (GCC) FOR WORKS	15 to 29
8	SPECIAL INSTRUCTIONS TO BIDDERS	30 to 36
9	DRAWINGS	37 to 40
10	TECHNICAL INSTRUCTIONS	41 to 44
11	<u>PART – II – PRICE BID</u>	45 to 66

**BHEL: BAP:RANIPET-6
M&S DEPARTMENT**

<u>NOTICE INVITING TENDER</u>	
1. Tender Notice No	BAP: M&S:TE:EL:12:018:DT:18.10.2012
2. Name of work	Electrical Petty Works
3. Period of contract	Two years
4. Tender Document	(can be downloaded freely from BHEL web site : http://www.bhel.com/tender/list_tender.php)
5. Estimated value of work	Rs.60,31,814/-
6. Earnest Money Deposit (EMD) Amount	Rs.1,00,000/- (Rupees. One lakh only)
7. Last date & Time for Receipt of the completed Tender	15.11.2012 .14.30 Hrs.
8. Date of Technical bid Opening	15.11.2012 .14.30 Hrs. onwards
9. 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 opening of Price Bids.
10. Place of submission of Tender	Tender Box placed in M&S Office, BHEL /BAP/ Ranipet – 632 406
11. Address on the Sealed Tender Cover to be:	SENIOR MANAGER / M&S PLANNING & ES M & S DEPARTMENT BHARAT HEAVY ELECTRICALS LIMITED RANIPET – 632 406 VELLORE DISTRICT TAMIL NADU
12. Venue of the Tender opening	M&S Conference hall

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

NOTICE INVITING TENDER

13. 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 website: <http://eprocure.gov.in/epublish/app>.
14. Interested bidders may alternately collect hard copy of tender specification documents from M&S Department / BHEL / Ranipet on all working days (between 10.00 to 15.00 hrs) (Please download the documents from our web site for this tender)
15. BHEL will not take any responsibility for delay / loss of documents or correspondence sent by courier / post.
16. BHEL reserves the right to accept or reject any or all tenders without assigning any reasons whatsoever.
17. All corrigenda, addenda, amendments, clarifications etc. to tender specification will be hosted in the web page (www.bhel.com > **Tender notifications > view corrigendum**) only and not in the news papers. **Bidders shall keep themselves updated with all the such developments.**
18. Tender should be submitted in a **sealed cover** containing, separate internal covers of the below.
 - a) Requisite EMD,
 - b) Part – I-Technical bid with all documentary evidence of meeting the qualifying Requirements such as
 - i) Balance sheet,
 - ii) Profit & Loss Account,
 - iii) Valid electrical license,
 - iv) Experience , value of work executed in the similar Nature of work etc.Any bid without proper documentary evidence for pre- qualification shall not be considered for further evaluation.

(and)
 - c) Part – II - Price bid

(All covers super scribing the name of work, Tender Notice number, Due date of opening.)
19. Tenders without EMD shall be summarily rejected.
20. The bidder shall return the duly filled in tender document after affixing signature on all the pages of the Tender Documents.
21. 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

NOTICE INVITING TENDER

22. The earnest money deposit will be refunded to the unsuccessful bidders after finalization of the award of work. In case of successful bidder, the earnest money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with BHEL's General Conditions of Contract enclosed. No interest will be paid on the earnest money deposit. EMD submitted by the bidder will be forfeited if i) After opening the tender / price bid, the bidder revokes his tender within the validity period or increases his earlier quoted rates ii) The bidder does not commence the work within the period mentioned in Letter of Intent LOI / Contract. In case the LOI / Contract is silent in this regard then within 15 days after award of contract.
23. **Bidders are required to submit their price bid in the BHEL format only (Part – II – Price bid .** Price bids received in any form other than prescribed in Part-II (PRICE BID) are liable to be rejected. **Date and time of opening of the price bid shall be intimated to those bidders who have qualified after evaluation of the qualification bid.** The bidder / bidder's authorized representative may participate in the tender opening for which they shall bring authorization letter for attending tender opening.
24. **Seeking clarification on Tender Specification:** Clarifications on tender specification if any may be sought by the bidders during office hours only from the **Senior Manager / M&S – 04172 – 284623 / 9442509822.**
25. 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.
26. Offers received with any deviation or without relevant information are liable to be rejected.
27. **Percentage rate contract:**
- The bidder shall quote a percentage above or below or at par, to the total estimated value given in SL.No:81 of Price Bid. The percentage quoted shall be clearly written both in words and figures.
- The quoted percentage will apply to the individual schedule uniformly.**
28. **The tender offer should be kept valid for SIX MONTHS from the date of Technical 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

NOTICE INVITING TENDER

29. Percentage rates quoted shall be firm through out the contract period of 24 months and extended contract period also and no cost escalation is allowed on any account.
- 30. The similar works executed in the own name of the bidder only will be considered for eligibility / qualification criteria.**
31. BHEL reserves the right to increase or decrease the tendered quantity.
32. 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.
33. 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.
34. BHEL reserves the right to negotiate the L1 rate.
- 35. The contract will be awarded to a single party, who is the over all lowest bidder .**

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

E FORMAT

THE PURCHASE / CONTRACT EXECUTING AGENCY / BHEL

ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	Name & Address of the Supplier / Sub-contractor	
02	VENDOR CODE assigned by BHEL	
Details of Bank Account:		
03	NAME & ADDRESS OF THE BANK	
04	NAME OF THE BRANCH	
05	BRANCH CODE	
06	MICR CODE	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
07	ACCOUNT NUMBER	
08	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT
09	BENEFICIERY'S NAME	
10	IFSC CODE OF THE BRANCH	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>
11	EMAIL ID	
12	TELEPHONE/MOBILE NO.	

CERTIFICATE

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

AUTHORISED SIGNATORY WITH NAME SEAL

Banker's Certification

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

PLACE:

(Manager / Officer's)

DATE :

Signature Under Bank stamp and Name Seal
With Membership No.

(Telephone / Mobile No. _____)

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

QUALIFICATION REQUIREMENTS (QR) :

Name of work: Electrical Petty Works

Tender Notice No: BAP:M&S:TE:EL:12:018:DT:18.10.2012

S.No	Description	Details (To be filled by the Contractor)
1	Average annual financial turnover of the Contractor during the last 3 years ending on 31st March 2011, should be at least 18 lakhs. and the bidder should submit audited balance sheet and Profit & Loss Account for the last three years (2008 – 09, 2009 – 10 & 2010-11), duly certified by chartered accountant / auditor.	2008 – 09: 2009 – 10: 2010 – 11:
2	Contractors having experience of successfully completed similar works (ref. Note 1 below) during the last 7 years as on 30.09.2012 should be either of the following.	
2. a	Three similar completed works each costing not less than the amount equal to Rs.24 Lakhs.	Client : Name of work : Value of Wok : Rs. Completion Certificate issued by : Date of completion of work: <hr/> Client: Name of work: Value of Wok : Rs. Completion Certificate issued by : Date of completion of work: <hr/> Client: Name of work: Value of Wok : Rs. Completion Certificate issued by : Date of completion of work:
OR		

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

2.b	Two similar completed works each costing not less than the amount equal to Rs.30 Lakhs.	Client: Name of work:
		Value of Wok : Rs. Completion Certificate issued by : Date of completion of work:
2.c	One similar completed work costing not less than the amount equal to Rs.48 lakhs.	Client: Name of work:
		Value of Wok : Rs. Completion Certificate issued by : Date of completion of work:
OR		
3.	Contractor should have relevant valid Electrical EB / ES A / EA / ES B grade license from State Electrical Licensing Board of Tamilnadu / other states for carrying out this work.	
Note 1 :`Similar Works` mentioned in SI.No-2 above shall mean successfully executed “electrical maintenance works in manufacturing / process industries” Or successfully executed erection works of electrical equipment/cables/ LT panels / HT panels in manufacturing/ process industries.		
The work executed in the own name of the bidder only will be considered for similar works executed for meeting the eligibility criteria		
Tender bids not meeting any of the above pre-qualification criteria shall be rejected and shall not be considered for further evaluation of tender.		

Documents required for proof of QR:

The bidders should submit documents in support of possessing Qualifying requirements as under, duly certified and stamped by their authorized signatory:

- Copy of Balance sheet, Profit & Loss Account duly certified & audited by Chartered Accountant) and work orders along with BOQ and completion certificates in support of the qualifying criteria.
- Copy of authorization letter / power of attorney of the authorized signatory of the tender document (only in case of owner of the firm is different from authorized signatory).

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

Details to be filled by the Bidder

1a	Name of applicant	
1b	Full address	
1c	Nationality	
1d	email cell phone fax	
2	Whether the firm is individual firm or Sole proprietorship firm or partner ship firm or Hindu undivided Family or association of persons or Private Limited company or Public Limited company or any other please specify. (Notarized copy has to be enclosed)	
3	Whether the contractor has registered his workmen under employees State Insurance Act. If so, the Registration No./ Enrolment Number may be furnished. (Notarized copy has to be enclosed)	
4	PAN no and documentary proof (Notarized copy has to be enclosed)	
5	Registration under Tamil Nadu VAT ACT, TIN number . (Notarized copy has to be enclosed).	
6	The service tax heads under which the enlisting person registered with Excise Authorities and copy of service tax registration certificate has to be enclosed (Notarized copy)	
7	Whether the contractor has registered his workmen under Employees Provident Fund and Miscellaneous Provisions Act? (Notarized copy has to be enclosed).	

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

CERIFICATE OF NO DEVIATION

I / We of M/s

hereby certify that **there is no deviation** from the tender conditions either technical or commercial and I am /We are agreeing to all the terms and conditions mentioned in the Tender Specification.

Date:

Signature of the Bidder

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

BRIEF SCOPE OF WORK & SPECIAL CONDITIONS

- 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.
- 3) While normal routine maintenance of these sophisticated machines and plant operation will be carried out by BHEL Employees, the petty electrical maintenance works like replacing 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 08:30 hrs to 17:30 hrs.
- 4) For contract workers, there is contract mess 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 and the approximate anticipated value of work is Rs.6031814/-. 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 requirement of the BHEL.
- 8) BHEL reserves the right for extending the contract period based on the mutual agreement.
- 9) **The quantity given on the Bill of materials against each schedule is tentative / approximate and are 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 the tender percentage (above, below or at par)**
- 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

- 12) The contractor should use only the materials of brand and quality as approved by BHEL.
- 13) Water, Electricity and compressed air will be provided by BHEL at one point 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 got approved from the Engineer-in-charge before the start of the work and shall conform to the latest IS specifications.
- 18) Proper material accounting has to be maintained for all the materials supplied by BHEL.
- 19) Welding equipment's, consumables (welding electrodes, gas and etc.,) and cutting M/Cs with Tools, Tackles are under contractor scope.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

BHARAT HEAVY ELECTRICALS LIMITED
BOILER AUXILIARIES PLANT
RANIPET 632 406
GENERAL CONDITIONS OF CONTRACT FOR WORKS

SECTION -I

1. GENERAL INSTRUCTIONS TO TENDERERS

1.1. DESPATCH INSTRUCTIONS:

- 1.1.1.** 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 super scribing the name of work as given in the tender notice.
- 1.1.2.** The tender shall be addressed to Officer inviting tender as indicated in the tender notice.
- 1.1.3.** 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 are liable to be rejected. Telegraphic offers and offers received by telex may not be considered.
- 1.1.4.** 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.
- 1.1.5.** 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.
- 1.1.6.** 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.
- 1.1.7.** 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.
- 1.1.8.** The bidders shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words. In case of difference in rates between words and figures, the least of the two will be treated as valid rate
- 1.1.9.** All entries in the tender shall either be typed or be written in ink. Erasers and overwriting are not permitted and may render such tenders liable to summary rejection. All cancellations and insertions shall be duly attested by the bidder.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

1.2. QUALIFICATION OF BIDDERS:

Only bidders who have previous experience in the work of this nature and description detailed in this tender specification are expected to quote for this work duly submitting details of experience along with the offer. Offers from bidders who do not have proven and established experience in the field are not likely to be considered.

1.3. DATA TO BE ENCLOSED:

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.

1.3.1. FINANCIAL STATUS:

A certificate from Scheduled Bank to prove his financial capacity to undertake the work duly indicating financial limits the bidder enjoys or solvency certificate from the concerned Government authority.

1.3.2. INCOME TAX CERTIFICATE:

A certificate of Income Tax clearance from the appropriate authority in the forms prescribed there for indicating annual turnover and the Sales Tax clearance certificate from the appropriate authorities as prescribed by the concerned state government, if any. These certificates shall be valid for one year from the date of issue or for the period prescribed therein for all tenders submitted during the period.

1.3.3. PREVIOUS EXPERIENCE:

A statement giving particulars duly supported by documentary evidence of the various services rendered for each similar work by the bidder indicating the particulars, value of each work, the site location, the duration, date of completion, a list of site locations and particulars and value of various services that are under progress. Information required in Annexure –BI & BII shall be furnished by the bidders along with the offer.

1.3.4. ORGANISATION CHART:

The Organization pattern that is presently available with the bidder and that will be employed by the bidder for this work shall be furnished.

1.3.5. 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)

1.3.6. IN CASE OF AN INDIVIDUAL:

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

1.3.7. 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.

1.3.8. 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.

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

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

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

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

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

1.4. EARNEST MONEY DEPOSIT:

1.4.1 EMD shall be in the form of DD. Tenderers who had already remitted one time EMD (Rs.Two lakhs) should furnish the details of cash receipt No with a covering letter. Tender without EMD / without reference to one time EMD will be summarily rejected. All Demand Draft shall be drawn in favour of `Manager / Finance, BHEL, Ranipet payable at SBI, Mukundarayapuram Branch (Code: 7013), Ranipet -6.

1.4.2. Tenders received without Earnest Money in full in the manner prescribed above are liable to be rejected.

1.4.3. The Earnest Money Deposit of the successful tenders may be retained towards part of Security Deposit.

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

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

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

1.4.5.2. 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.

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

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

1.4.6. Earnest Money deposit shall not carry any interest.

1.5. AUTHORISATION AND ATTESTATION:

1.5.1. 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.

1.6. VALIDITY OF OFFER:

The rates in the Tender shall be kept open for acceptance for a minimum period of six months from the date of technical bid opening of tenders. 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.

1.7. EXECUTION OF CONTRACT:

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

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

1.8. SECURITY DEPOSIT:

1.8.1. 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.

1.8.2. The total amount of Security Deposit shall be as follows:

1.8.2.1. In the case of work costing up to Rs.10 lakhs – 10% of the quoted value.

1.8.2.2. In the case of work costing Rs.10 lakhs to Rs.50 lakhs – Rs.1 lakh plus 7.5% of the amount exceeding Rs.10 Lakhs.

1.8.2.3. In the case of work costing more than Rs.50 Lakhs – Rs.4 lakhs plus 5% of the amount exceeding Rs.50 Lakhs.

1.8.3. The Security Deposit may be furnished in any one of the following forms:-

1.8.3.1. Cash (as permissible under the income tax act).

1.8.3.2. Pay order , Demand Draft in favour of BHEL.

1.8.3.3. Local cheques of Scheduled Banks, subject to realization.

1.8.3.4. Securities available from Post Offices such as National saving Certificates, Kisan Vikas Patras etc. (Certificates should be held in the name of contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).

1.8.3.5. Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the companies act subject to a maximum of 50% of the total security deposit value. Balance 50% has to be remitted either by cash or in the other form of security. The Bank Guarantee format should have the approval of BHEL. The Bank Guarantee furnished towards Security Deposit should be kept valid by proper renewal till the expiry of 6 Months after the said work is actually completed.

1.8.3.6. Fixed Deposit Receipt issued by Scheduled Banks / Public Financial Institutions as defined in the companies act. The FDR should be in the name of the contractor, account BHEL, duly discharged on the back.

1.8.3.7. Security deposit can also be recovered at the rate of 10% from the running bills. However in such cases at least 50% of the security deposit (as Bank Guarantee or Demand Draft) should be remitted before start of the work and balance 50% may be recovered from the running bills till the full Security Deposit is made up.

1.8.3.8. EMD of the successful bidder may be converted and adjusted against the security deposit on specific request by the contractor.

1.8.3.9. Acceptance of security deposit as per clause 1.8.3.4 and 1.8.3.6 above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

1.8.4. If the value of the work done at any time exceeds the accepted agreement value, the security Deposit shall be correspondingly enhanced and the extra Security Deposit shall be immediately deposited by the Contractor or recovered from payments due to him.

1.8.5 Failure to deposit the Security Deposit within the stipulated time, may lead to forfeiture of Earnest Money and cancellation of the award of work.

1.8.6 If any part of Security Deposit of the Contractor is held in the form of approved securities it shall be kept transferred in the name of Bharat Heavy Electricals Limited, Ranipet, in such a manner that the same can be realized fully without referring to the Contractor, BHEL shall not be responsible for any depreciation in the value of the Security while in BHEL's custody or for any loss of interest thereon.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

1.8.7 BHEL reserves the right to forfeiture of Security Deposit in addition to the other claims and penalties in the event of the Contractor's failure to fulfill any of the Contractual obligation including liquidation or bankruptcy of the contractor, non-payment of money payable by means of arbitration award in favour of BHEL or in the event of termination of Contract as per terms and conditions of Contract. BHEL reserves the right to set off the Security Deposit, against any claims of any other contracts with BHEL.

1.8.8 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.**

1.9. REJECTION OF TENDER AND OTHER CONDITIONS

1.9.1. 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.

1.9.1.1. To reject any or all of the bidders.

1.9.1.2. To award the work in part.

1.9.1.3. Either of the contingencies stated in (1.9.1.2) above to modify the time for completion suitably.

1.9.2. Conditional and Unwitnessed 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.

1.9.3. 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.

1.9.4. 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.

1.9.5. 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.

1.9.6. 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.

1.9.7. 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.

1.9.8. 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

1.9.9. 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.

1.10. NO INTEREST shall be payable by BHEL on Earnest Money / Security Deposit / or any money due to the Contractor by BHEL.

1.11. COMPLIANCE TO REGULATIONS AND BY-LAWS

The Contractor shall conform to the provisions of any statute relating to the work and regulations and Byelaws of any local authority. The Contractor shall be bound to give all notices required by statute regulations or By-Laws as aforesaid and to pay all fees and taxes payable to any authority in respect thereof.

a) Minimum Wages for the workers engaged for this work:

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.

The current minimum wages for skilled worker is Rs 203.00 / day, semi skilled worker is Rs 197.00 / day and for un skilled worker it is Rs. 190.00 / day. The contractor shall ensure to pay wages not less than this minimum wage to the workers deployed by him in this work along with other statutory payments. Any increase in wages during currency of the contract also to be paid by the contractor within the quoted rates.

1.12 PAYMENT TERMS.

- 1) Monthly post payment based on bills raised as per actual work done and as per the scope of work after certification of Engineer in-charge.
- 2) All payments to be made to the Contractor, under this contract shall be by “ NEFT ” (National Electronic Fund Transfer) / “ RTGS ” (Real Time Gross Settlement) within a reasonable time say one month after the certification of bills by the SM/M&S or any official of M&S department authorized by him for this purpose.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

SECTION -II

2.1. DEFINITION:

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

- 2.1.1. 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.
- 2.1.2. "GENERAL MANAGER"**
Shall mean the officer in Administrative charges of contracting unit of BHEL.
- 2.1.3. "ENGINEER" or "ENGINEER IN CHARGE"** shall mean Engineer who is in-charge for the works referred.
- 2.1.4. "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.
- 2.1.5. "CONTRACTOR"** shall mean the individual, firm or company who enters in to this contract with BHEL and shall include their executors, administrators, successor and permitted assignees.
- 2.1.6. "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.
- 2.1.7. "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.
- 2.1.8. "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..
- 2.1.9. "TENDER DOCUMENTS"** shall mean the General and Special Conditions of Contract (2.1.7) and tender specification (2.1.8).
- 2.1.10. "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.
- 2.1.11. "COMPLETION TIME"** Shall mean the period by date specified in the acceptance of tender or date 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

- 2.1.13. "PLANT"** shall mean and cannot the entire assembly of the plant and equipments covered by the contract.
- 2.1.14. "EQUIPMENT"** shall mean all equipments, machinery, materials, structural, electrical and other components of the plant covered by the contract.
- 2.1.15. "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.
- 2.1.16. "APPROVED" "DIRECTED" or "INSTRUCTED"** shall mean approved, directed or instructed by BHEL.
- 2.1.17. "WORK OR CONTRACT WORK"** shall mean and include supply of all categories of labour specified consumables, tools and tackles required for complete and satisfactory site transportation handling, stocking, storing, erecting, testing, and commissioning of the equipments to the entire satisfaction of BHEL.
- 2.1.18. "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.
- 2.1.19. "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.
- 2.1.20. "MONTH"** shall mean calendar month, unless specified otherwise in the tender.
- 2.1.21. "WRITING"** shall include any manuscript typewritten or printed statement under the signature of BHEL.

2.2. 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).

2.3. 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.

2.4. 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.

2.5. COMMENCEMENT OF WORKS:

- 2.5.1.** 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

- 2.5.2.** 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 BHELs other rights and remedies in this regard.
- 2.5.3.** All the works shall be carried out under the direction and to the satisfaction of BHEL.
- 2.5.4.** 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.
- 2.6. MODE OF PAYMENT AND MEASUREMENT OF THE WORK COMPLETED:**
- 2.6.1.** 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.
- 2.6.2.** 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.
- 2.6.3.** 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.
- 2.6.4.** Based on the above quantity, contractor shall prepare the bills in prescribed proforma 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.
- 2.6.5.** 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.
- 2.6.6.** Measurement shall be restricted to that for which it is required to ascertain the financial liability of BHEL under this contract.
- 2.6.7.** The measurement shall be taken jointly by persons duly authorized on the part of BHEL and by the contractor.
- 2.6.8.** 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.
- 2.6.9.** 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.
- 2.6.10.** Passing of measurement as per bills does not amount to acceptance of the completion of the work mentioned. Any left out work has to be completed if pointed out at a later date by BHEL.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

2.6.11. Final measurement bill shall be prepared in the final bill proforma 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. Contractor's 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 clause 2.13. The final bill quantities and financial value shall also be entered in Measurement Book and signed by both the parties to the contract.

2.7 RIGHTS OF BHEL

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

- 2.7.1.** 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 BHELs supervision charges and overheads from Security Deposit / other dues.
- 2.7.2.** 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 labour to suit BHEL" s commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons/BHELs obligation to its customer.
- 2.7.3.** 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.
- 2.7.4.** 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.
- 2.7.5.** 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.
- 2.7.6.** 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.
- 2.7.7.** To effect 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

- 2.7.8.** 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.
- 2.7.9.** 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 and to recover the expenditure on account of the same from contractor's bills.
- 2.7.10.** 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.
- 2.7.11.** In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.

2.8. 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.

- 2.8.1.** As far as possible unskilled workers shall be engaged from the local areas in which the work is being executed.
- 2.8.2.** 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.
- 2.8.3.** 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.
- 2.8.4.** 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.
- 2.8.5.** While BHEL would pay the inspection fees, of the Boiler Inspectorate, all other arrangements for the visits periodically by Boiler Inspector to site, Inspection Certificate etc., will have to be made by the contractor. However BHEL will not make any payment to Boiler Inspector in connection with contractor's welder's qualification/requalification tests etc.
- 2.8.6.** 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.
- 2.8.7.** The contractor shall be responsible for providing proper accommodation including adequate medical facilities for the personnel employed by him.
- 2.8.8.** The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.
- 2.8.9.** 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

- 2.8.10.** 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.
- 2.8.11.** 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.
- 2.8.12.** The Contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of erection/construction/performing work under the contract.
- 2.8.13.** 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.
- 2.8.14.** 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.
- 2.8.15.** 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.
- 2.8.16.** 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 guards 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.
- 2.8.17.** 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.
- 2.8.18.** 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.
- 2.8.19.** 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.
- 2.8.20.** 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

2.8.21. 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.

2.8.22. 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.

2.9. CONSEQUENCES OF CANCELLATION:

Whenever BHEL exercises its authority to terminate the contract/withdraw a portion of work under the clause 2.7 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.

2.9.1. 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.

2.10 INSURANCE:

2.10.1. BHEL/their customer shall arrange for insuring the materials/properties of BHEL / customer covering the risks during transit, storage, erection and commissioning.

2.10.2. 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 workmens 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.

2.10.3. 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.

2.10.4. 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.

2.10.5. It shall be the responsibility of the contractor to provide security arrangement for the equipment/ 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.

2.11. STRIKES & LOCKOUTS:

2.11.1. The contractor will be fully responsible for the entire dispute and other issues connected with his labour. In the event of the contract labour 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 won labour or through any agencies or both and the cost so incurred by BHEL be deducted from the contractor's bills.

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

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

2.12. FORCE MAJEURE:

2.12.1 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.

2.12.2. 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.

2.13. GUARANTEE:

Even though the work will be carried out under the supervision of BHEL Engineers the contractor will be responsible for the quality of the workmanship and shall guarantee the work done for a period of six months from the date of completion of work as certified by the Engineer for good workmanship and shall rectify free of cost all defects due to faulty erection, detected during the guarantee period starting from the date of the completion of rectification. In the event of the contractor failing to repair the defective works within the time specified by the Engineer, BHEL may proceed to undertake the repairs of such defective works at the contractor's risk and cost, without prejudice to any other rights and recover the same from Security Deposit/other dues or by other legal means

2.14. ARBITRATION:

Except where otherwise provided for in the contract all questions and disputes relating to the meaning of the specifications, designs, drawings and instructions herein before mentioned and as to the quality of workmanship or materials used on the work or as to any other question, claim, right, matter or thing whatsoever in anyway arising out of or relating to the contract, designs, drawings, specifications, estimates, instructions, orders or these conditions or otherwise concerning the work or failure to execute the same whether arising during the progress of the work or after the completion or abandonment thereof shall be referred to the sole arbitration of the General Manager of BHEL and if General Manager is unable or unwilling to act, to the sole arbitration of some other person appointed by the General Manager, willing to act as such arbitrator.

The cases referred to arbitration shall be other than those for which the decision of the Accepting

Officer, or Engineer-in-charge as the case may be is expressed in the contract to be final and conclusive. There will be no objection if the arbitrator so appointed is an employee of BHEL and that he had to deal with the matters to which the contract relates and that in the course of his duties as such he had expressed views on all or any of the matters in dispute or difference.

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

Subject as aforesaid the provision of the Arbitration Act 1940 or any statutory modification or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

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

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

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

The arbitrator shall be deemed to have entered on the reference on the date he issues notice to both the parties fixing the date of first hearing.

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

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

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

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

SPECIAL INSTRUCTIONS TO BIDDERS

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

**Senior Manager /M&S planning & ES,
M&S 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 14.30 hrs. on 15.11.2012 in the prescribed form and will be opened on 15.11.2012 at 14.30 hrs onwards at M&S Office Conference Hall in the presence of such of those Bidders or their agents who may choose to attend.
4. 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.
5. Bidder should sign and seal each and every page of the tender document including the drawings/annexure attached thereto before submitting the tender.
6. Conditional tenders and un witnessed tenders, tender containing absurd rates and amounts, tenders, which are incomplete or otherwise, considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable for rejection.
7. Tenders not submitted in the prescribed forms are liable for rejection.
8. 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.
9. Before tendering, the Bidders are advised to inspect the site of work and its environments and be well acquainted with actual working and other prevalent conditions, position of materials and labor. General instructions to Bidders drawings, specifications and other documents also form part of the agreement to be entered into.
10. The rates quoted in the tender shall remain valid for a period of **SIX MONTHS** from the date of opening of the technical bid.
11. 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.
12. **Every Tender must be accompanied by 'Earnest Money Deposit' of Rs.100,000/- (Rupees one lakh only) in the form of Demand Draft drawn from any Nationalized bank, in favour of 'Manager / Finance, BHEL, Ranipet' payable at SBI, Mukundarayapuram Branch (Code : 7013). EMD will not carry any Interest.**

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

13. Unless the Contractor whose tender is accepted, signs the contract and makes necessary Security Deposit specified within fourteen days from the date of the order directing him to do so, the earnest money deposited by him will be forfeited and acceptance of his tender 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. 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.
15. 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. These rates shall be for the finished work at site.
16. Rates for each item of the tender schedules should be quoted in rupees and paise only. In case of any difference in the rates quoted in figures and in words, words will be taken as the tendered rate.
17. Rates quoted SHALL INCLUDE ALL royalties, terminal taxes, octroi, duties, central and provincial excise tax, sales tax / VAT and other taxes levied under the State or Central Government Rules excluding applicable service tax for this work.

18. Approximate value of Free materials supplied by BHEL is Rs 84.52 lakhs as per Annexure- A

19. The Bidder shall not include Service Tax in their quoted rates ; but the bidder has to separately indicate the Service Tax amount and workings thereof in the Price bid format.

20. Bidders have to quote full Service Tax payable in the Price 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.

21. 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.

22. 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 @ 4.326% presently (i.e. 70 %) , shall be added to arrive at the total cost to BHEL for each bidder for the purpose of evaluation of Bids.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

23. 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.
24. 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.**
25. 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 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.
26. Tenders submitted by post should be sent "REGISTERED POST WITH ACK.DUE". This should be posted with due allowance for any delay in postal delivery. On no account, will tenders received after the due date and time of opening tenders, be considered.
27. Quantities shown in the attached schedules are only approximate and liable to change without entitling the contractor for any compensation
28. 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 share holder'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.
29. If the Bidder expires after submission of his tender, the Bharat Heavy Electricals Limited may be at the discretion of cancel such tender.
30. 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.
31. 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.
32. 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.
33. Words imparting the singular number shall also deem to include the plural number and vice versa where the context so requires.
34. The expenses for completing and stamping the agreement shall be to the contractor's account.
35. 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

36. Bidders shall not increase their quoted rates in case Bharat Heavy Electricals Limited negotiated for reduction of rates, such negotiations shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the Bidders for a period of Six months from the date of opening of tender.
37. 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.
38. 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.
39. The " GENERAL CONDITIONS OF CONTRACT and SPECIAL INSTRUCTIONS TO BIDDERS" shall be deemed to form an integral part of contract for the work to be entered into.
- 40. The contractor should possess 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.**
- a. 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).
 - b. 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.
 - c. 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.
 - d. 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.
 - e. Along with the challan copy, the details of remittance shall be submitted to the Executive (HR-CLX, REX) in the ESI compliance form.
41. 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

42. 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.
43. 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.
44. 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.
45. 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.
46. 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) within 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.
47. Compliance of the above provisions does not absolve the obligation of contractor arising out of other statutory obligations.
48. Employment of child labour is strictly prohibited.
49. Contractor should employ only persons having sound health and not above the age of 58 years, and not below the age of 18 years.
50. 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.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

51. 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.
52. 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.
53. 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.
54. 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.
55. The contractor should submit notarized copy of the following documents.
 - i. Pan card.
 - iii. TN VAT registration certificate.
 - iv. Service tax registration certificate.
56. The contractor shall indicate all the applicable taxes in the offer and any claim after the issue of contract will not be entertained.
57. In case if any Taxes not applicable, like due to threshold limit etc. Same may be clearly indicated in the offer by the Bidder.
58. 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.
59. 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
60. 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 (58) and (59) above.
61. 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 doesn't agree to the decision of the purchaser; the bid is liable to be ignored.

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

ANNEXURE- A**Name of work: Electrical Petty Works****Free material supplied by BHEL while executing the contract**

S.No	Material Description	Quantity	Unit
1	Any core up to 25 sq.mm PVC AR/UN AR aluminum/copper cable	5100	Mtrs
2	Any core exceeds 25 sq.mm but not exceeds 120 sq.mm PVC armored/un armored aluminum/copper cable	5100	Mtrs
3	Any core exceeds 120 sq.mm but not exceeds 400 sq.mm PVC armored/un armored aluminum/copper cable	5100	Mtrs
4	Fluorescent / CFL fitting and lamp	200	No's
5	1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting with lamp	100	No's
6	Ceiling fan	100	No's
7	Supply of resistance type / electronic type ceiling fan regulator	50	No's
8	MAIN PANEL all sizes and capacity	16	No's
9	DB and ICTPN all capacity	42	No's
10	Man cooler, starter and Exhaust fan	56	No's
11	ICTPN & LTPN	60	No's
12	DSL Insulator	150	No's
13	Spare components for all type of Light fitting	47	No's

The approximate estimated value of free issue material is Rs. 84,52,974/- (Rupees eighty four lakhs fifty two thousand nine hundred and seventy four only)

**SIGNATURE OF THE BIDDER
WITH SEAL AND ADDRESS**

DRAWINGS

(Note : The attached drawings are for Tender Purpose only ; During actual execution, some changes may occur)

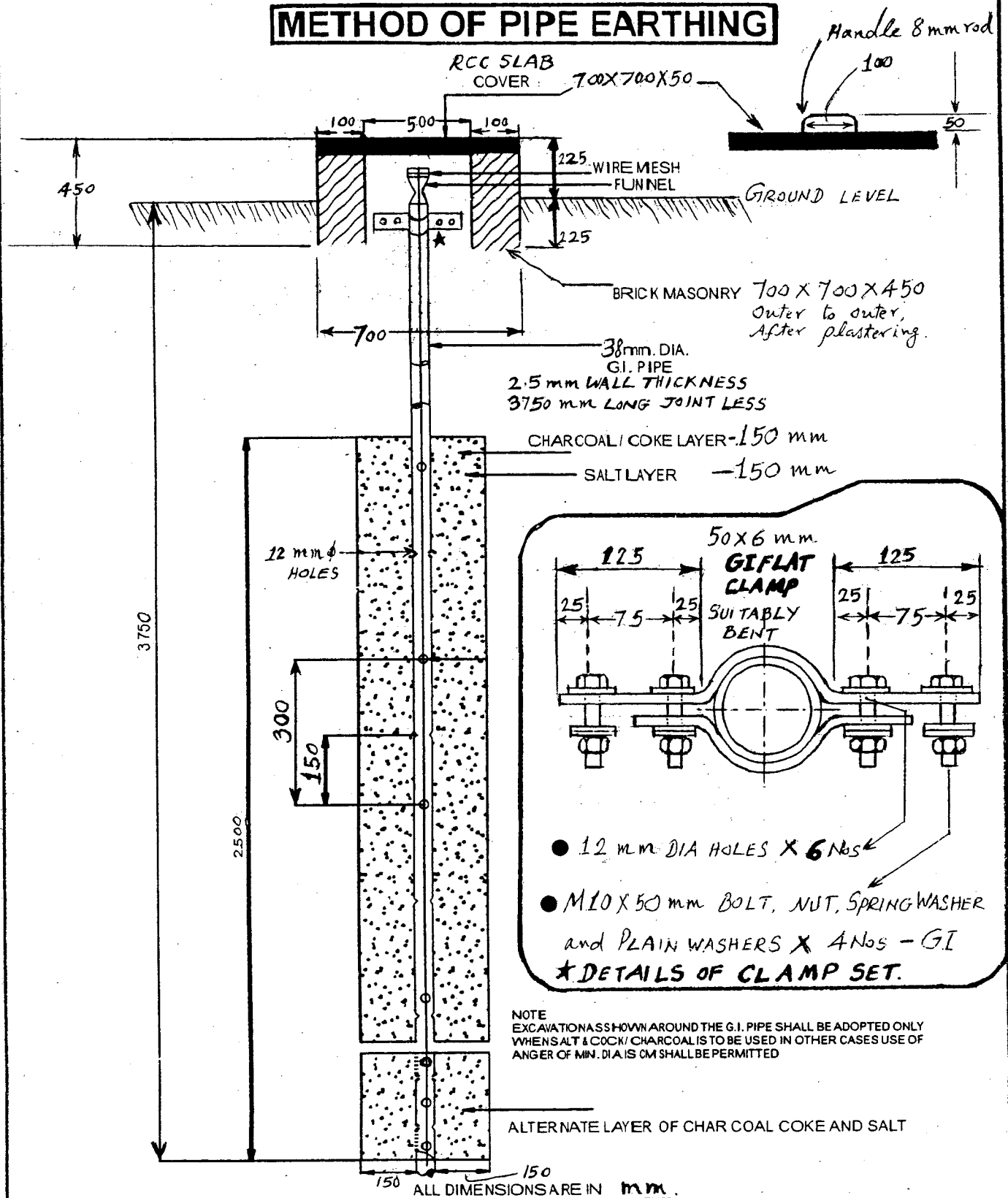
(No of Pages - 3)

REFERENCE DRAWING No : BAP: M&S: EL: PLNG: 001-08

FOR SL No: 8 of BILL OF MATERIAL

NOT TO SCALE

METHOD OF PIPE EARTHING



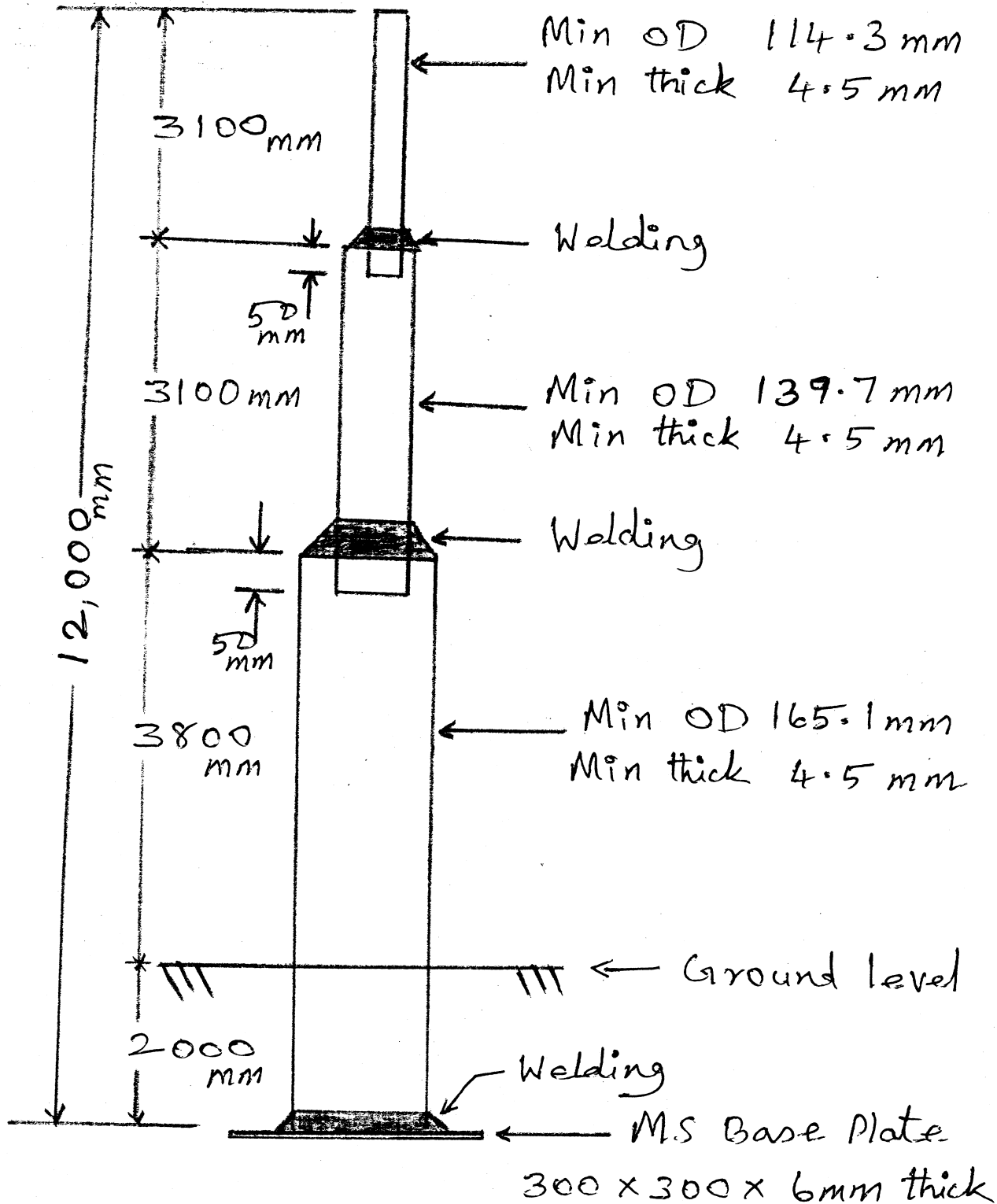
THE EARTH PIT RESISTANCE VALUE HAS TO BE MEASURED & THE RESISTANCE VALUE SHOULD BE NEATLY WRITTEN WITH PAINT ON THE PIT SLAB COVER.

<p><i>V.A. Narasimhan</i> (V.A. NARASIMHAN)</p>	<p>M. V. Romane Murthy 03.07.2010</p>	<p><i>[Signature]</i></p>
<p>PREPARED BY</p>	<p>CHECKED BY</p>	<p>APPROVED BY</p>

MS Tubular Pole Drawing

As per IS 2713 [Part I to III] 1980

Drg No: ES:M&S:1

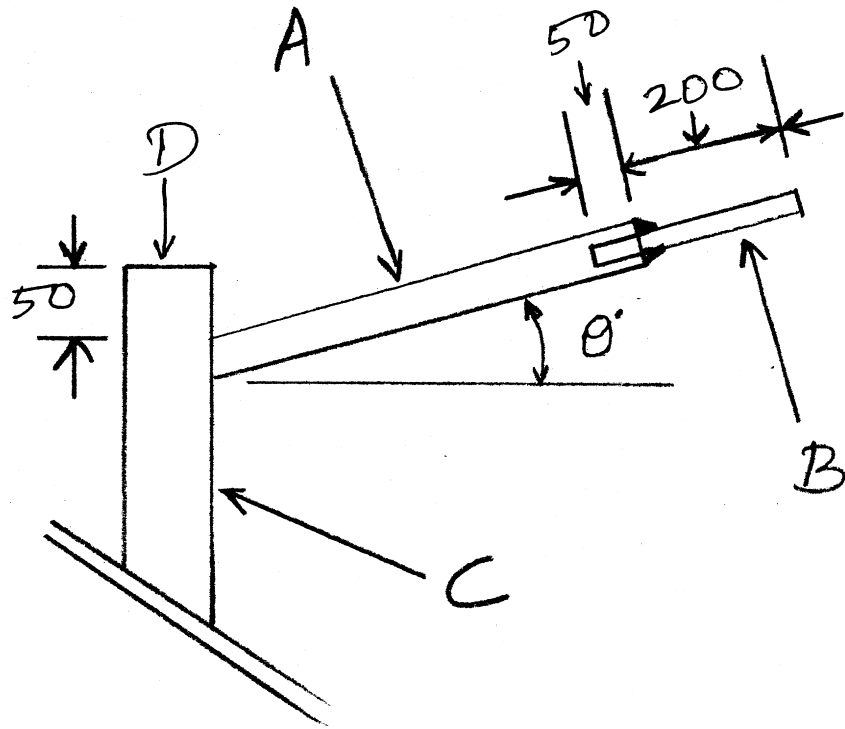


S. Muthukumar
S. MUTHUKUMAR
 Sr. Addl. Engineer - I
 Electrical Services / M&S
 BHEL / BAP / RANIPET - 632 406

MS Pipe Bracket Drawing

[To fix Road Light fitting]

Drg No: ES: M&S: 2A



Note:

1. A - MS pipe - 76.9ϕ , 3.25 mm thick, 1000 mm length
2. B - MS pipe - $50 \text{ mm } \phi$, 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. Muthu
S. MUTHUKUMAR
Sr. Addl. Engineer - I
Electrical Services / M&S
BHEL / BAP / RANIPET - 632 406.

TECHNICAL INSTRUCTIONS

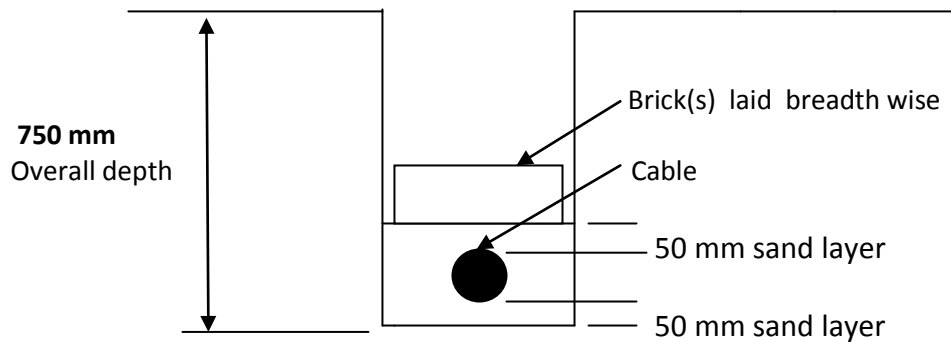
- 1 Fuse switches / switch fuses shall be of any one of the following make only Gec Alstom, L&T, GEC
- 2 The DP switches, SP Switches, plugs and sockets shall be of standard make agreeable to Engineer in charge and should have been certified by ISI.
- 3 All materials supplied by the contractor should 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 equipments 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, are 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 equipments (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:**

	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	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
13	Metal Clad Sockets	Best & Crompton, Sakthi Crown

12
A

IF CABLE / CABLES HAS TO BE LAID IN GROUND THE FOLLOWING SPECIFICATIONS SHOULD BE FOLLOWED.

For LOW TENSION cable SINGLE run



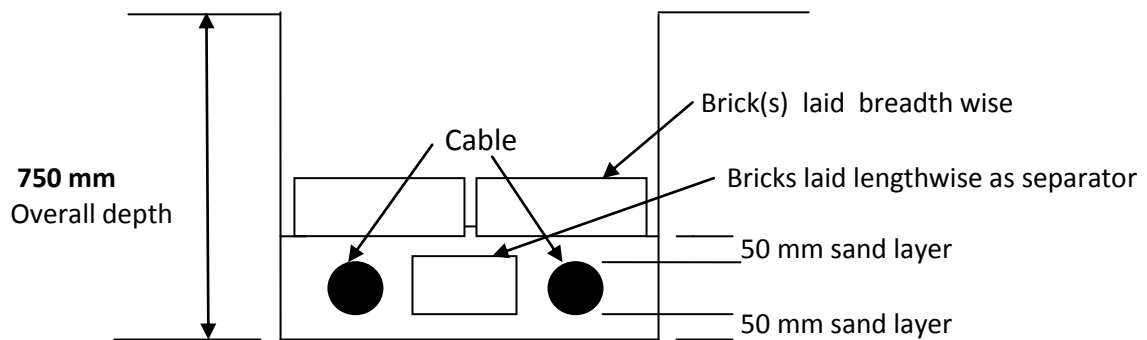
For ONE run of cable : The **trench should be excavated** to a depth, such that the cable will be laid at a **minimum depth of 750 mm** as shown above. Spread 50 mm deep layer of sand below the cable in trench, after laid the cable, also spread 50 mm deep layer of sand above the cable. Lay good quality 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 mm x 75 mm x 225 mm.

12
B

If MORE than ONE cable :

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

below:



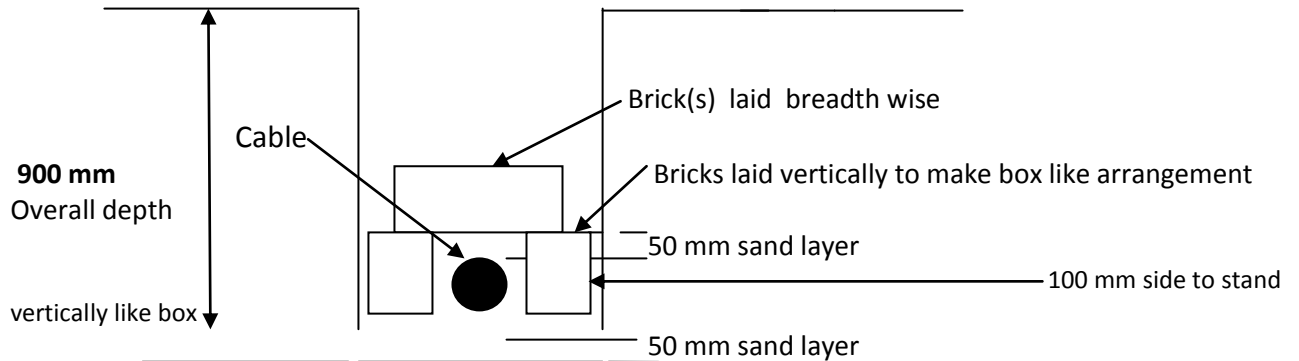
The cables should be laid in horizontal plane. The **trench should be excavated** to a depth and breadth, such that the cables will be laid at a **minimum depth of 750 mm in horizontal plane** as shown above. Spread 50 mm deep layer of sand below the cables. Lay the cables in horizontal plane & place **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 mm x 75 mm x 225 mm.

13
A

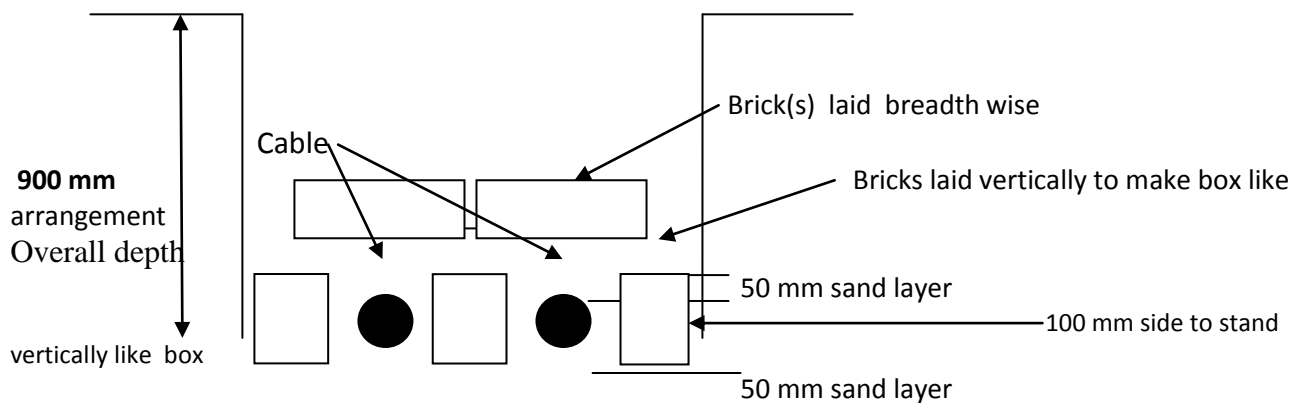
For **HIGH TENSION / 11 KV** cable the **trench should be excavated to a depth**, such that the cable will be laid at **minimum depth of 900 mm**. Spread 50 mm deep layer of sand below the cable in trench. After laid the cable, lay good quality bricks length wise and vertically sideways to make box like 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



13
B

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.

14

End termination of the cable is inclusive of supply and using of Pin / Eye type, Aluminium / Copper sockets, Glands, MS adpater boxes, Earthing of Glands & adpater boxes with 8 SWG (or) 7/20 GI wire.

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.

15 End Termination for the cable include supply and using solerliess 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.

16 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 enamelling paint has to be applied by spray painting.

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

18 **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.

TENDER DOCUMENT

TENDER NOTICE NO: BAP:M&S:TE:EL:12:018:DT:18.10.2012

Name of work	Electrical Petty Works
Period of Contract	Two Years

Issued to M/s. :

PART – II – PRICE BID (Pages 45 to 66)



MAINTENANCE & SERVICES DEPARTMENT
BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
BOILER AUXILIARIES PLANT
INDIRA GANDHI INDUSTRIAL COMPLEX
RANIPET - 632 406

ISSUING OFFICER

BILL OF MATERIAL				PRICE BID	
Name of work: Electrical Petty Works					
Period of Contract: Two Years					
Tender Notice No:BAP:M&S:TE:EL:12:018:DT:18.10.2012					
SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
LAYING OF CABLE IN UNDERGROUND					
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 ordinary soil / soft rock 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 not exceeding 25sq.mm	2000	Metre	140.14	280280.00
	1.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	2000	Metre	153.01	306020.00
	1.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	2000	Metre	165.52	331040.00
	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 hard rock 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)				
	1.4 not exceeding 25sq.mm	200	Metre	267.54	53508.00
	1.5 exceeding 25 sq.mm but not exceeding 120 sq.mm	200	Metre	280.28	56056.00
1.6 exceeding 120 sq.mm but not exceeding 400 sq.mm	200	Metre	293.02	58604.00	
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 not exceeding 25sq.mm	200	Metre	84.93	16986.00
	2.2 exceeding 25sq.mm but not exceeding 120sq.mm	200	Metre	89.40	17880.00
	2.3 exceeding 120sq.mm but not exceeding 400sq.mm	200	Metre	93.87	18774.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
LAYING OF CABLE IN GROUND WITHOUT SAND AND PROTECTIVE COVERING					
3	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 ordinary soil / soft rock 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)				
3.1	not exceeding 25sq.mm	200	Metre	73.01	14602.00
3.2	exceeding 25 sq.mm but not exceeding 120 sq.mm	200	Metre	81.95	16390.00
3.3	exceeding 120 sq.mm but not exceeding 400 sq.mm	200	Metre	90.89	18178.00
3	Laying of one number PVC insulated and PVC sheathed / XLPE (COPPER /ALUMINIUM) armored/unarmored power cable of 1.1KV grade of following sizes direct in Hard rock 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)				
3.4	not exceeding 25sq.mm	500	Metre	200.66	100330.00
3.5	exceeding 25 sq.mm but not exceeding 120 sq.mm	500	Metre	210.21	105105.00
3.6	exceeding 120 sq.mm but not exceeding 400 sq.mm	500	Metre	219.77	109885.00
LAYING OF CABLE ON WALL / SURFACE / TRENCH / OPEN DUCT / CABLE TRAY					
4	Laying of one number PVC insulated and PVC sheathed / XLPE armored/unarmored (COPPER / ALUMINIUM) conductor cable of 1.1KV grade of following sizes on surface / wall / trench with necessasary fixures as required. (cable will be supplied by BHEL free of cost from stores).				
4.1	not exceeding 25sq.mm	2000	Metre	57.33	114660.00
4.2	exceeding 25sq.mm but not exceeding 120 sq.mm	2000	Metre	76.44	152880.00
4.3	exceeding 120sq.mm but not exceeding 400sq.mm	2000	Metre	95.55	191100.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUPPLY AND MAKING JOINTS					
5	Supply and making straight through kit 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.				
5.1	3 x 50 sq.mm	4	Each	1592.50	6370.00
5.2	3 x 70 sq.mm	4	Each	1592.50	6370.00
5.3	3 x 95 sq.mm	4	Each	1911.00	7644.00
5.4	3 x 120 sq.mm	4	Each	2229.50	8918.00
5.5	3 x 150 sq.mm	4	Each	2548.00	10192.00
5.6	3 x 185 sq.mm	7	Each	3822.00	26754.00
5.7	3 x 300 sq.mm	4	Each	5096.00	20384.00
5.8	3.5 x 50 sq.mm	4	Each	1592.50	6370.00
5.9	3.5 x 70 sq.mm	4	Each	1592.50	6370.00
5.10	3.5 x 95 sq.mm	4	Each	1911.00	7644.00
5.11	3.5 x 150 sq.mm	4	Each	2548.00	10192.00
5.12	3.5 x 185 sq.mm	7	Each	3822.00	26754.00
5.13	3.5 x 300 sq.mm	4	Each	5096.00	20384.00
INSTALLATION & TESTING					
6	Installation,testing and commissioning of pre-wired Fluorescent / 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).	200	Each	64.07	12814.00
7	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)	100	Each	891.80	89180.00
8	Installation,testing and commissioning of ceiling fan and regulator, including supply and wiring the down rods of standard length (up to 30 cm) with 1.5sq.mm FR 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).	100	Each	260.00	26000.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9	Installation,testing and commissioning of resistance type / electronic type ceiling fan regulator, in existing switch box including connection with 1.5sq.mm FR PVC insulation,copper conductor, single core cable and earthing etc, as required. (Regulator will be supplied by BHEL free of cost).	50	Each	40.23	2011.50
10	Erection of 400/800Amps MAIN PANEL of following sizes a)Necesssary MS channel of size 100mmx50mm shall be supplied and provided for the erection of MP atleast 1support 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).				
10.1	2Metre length	4	Each	5850.00	23400.00
10.2	3Metre length	4	Each	7800.00	31200.00
10.3	4Metre length	4	Each	9750.00	39000.00
10.4	5Metre length	4	Each	13000.00	52000.00
11	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 adoptor 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 adoptor will be contractor scope). (The DB and ICTPN will be supplied by BHEL free of cost).				
11.1	4 way DB,100A ICTPN as incomer	6	Each	3510.00	21060.00
11.2	8 way DB,200A ICTPN as incomer	6	Each	3822.00	22932.00
12	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)	20	Each	325.00	6500.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
13	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 adoptor 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 adoptor will be contractor scope), (The DB and ICTPN will be supplied by BHEL free of cost).					
	13.1	4 way DB,63A ICTPN as incomer	6	Each	3185.00	19110.00
	13.2	8 way DB,100A ICTPN as incomer	6	Each	3185.00	19110.00
	13.3	12 way DB,200 ICTPN as incomer	6	Each	3185.00	19110.00
14	Fixing of following ways 16A/20A per way TPN HRC fuse distribution board with following rating of ICTPN as incomer with top/bottom entry MS cable adoptor 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 adoptor will be contractor scope) . (The DB and ICTPN will be supplied by BHEL free of cost).					
	14.1	8 way DB,63A ICTPN as incomer	6	Each	3185.00	19110.00
	14.2	12 way DB,100A ICTPN as incomer	6	Each	3185.00	19110.00
15	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), (MS box and MCB will be contractor scope).	20	Each	1625.00	32500.00	
16	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)	10	Each	484.25	4842.50	

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
17	Fixing of following capacity ICTPN/FN 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 is contractor scope). (ICTPN & LTPN will be supplied by BHEL)					
	17.1	32 Amp TPN / FP	6	Each	637.00	3822.00
	17.2	63 Amp TPN / FP	6	Each	637.00	3822.00
	17.3	100 Amp TPN	6	Each	637.00	3822.00
	17.4	200 Amp TPN	6	Each	1274.00	7644.00
	17.5	315/400 Amp TPN	6	Each	1274.00	7644.00
18	Fixing following capacity ICTPN / LTPN /FN 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 & LTPN will be supplied by BHEL)					
	18.1	32 Amp TPN / FP	6	Each	955.50	5733.00
	18.2	63 Amp TPN / FP	6	Each	1300.00	7800.00
	18.3	100 Amp TPN	6	Each	1911.00	11466.00
	18.4	200 Amp TPN	6	Each	1911.00	11466.00
	18.5	315/400 Amp TPN	6	Each	1911.00	11466.00
PAINTING						
19	Numbering of ceiling fan / exhaust fan / flourescent fitting /column / tubular mancooler with paint having equivalent quality of make: nerolac, asian, tractor. (paint, brush	25	Each	14.90	372.50	
20	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.	2500	sq ft	26.00	65000.00	

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUPPLY AND FIXING					
21	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.				
	21.1 For Medium Voltage 200 mm x 150 mm	25	Each	101.32	2533.00
	21.2 For High Voltage 250 mm x 200 mm	25	Each	111.75	2793.75
22	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, 60cm long and fixing the same in ground as required.	100	Each	233.93	23393.00
23	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.	100	Mtr	650.00	65000.00
24	Supply and fixing suitable clamps and necessary fixtures for existing PVC / STEEL (19mm/24mm/36mm) conduits on wall / surface / column.	500	Metre	13.00	6500.00
25	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.				
	25.1 100 mm x 100 mm x 60 mm deep	20	Each	95.36	1907.20
	25.2 200 mm x 250 mm x 60 mm deep	20	Each	204.13	4082.60
	25.3 200 mm x 150 mm x 100 mm deep	20	Each	190.72	3814.40
	25.4 250 mm x 300 mm x 60 mm deep	20	Each	262.24	5244.80
26	Supply and fixing of following sizes of PVC rigid conduit of 2mm thick pipe with accessories in surface / wall / recess including cutting the wall and making good the same in case of recessed conduit as required.				
	26.1 12 mm	50	Metre	47.68	2384.00
	26.2 20 mm	50	Metre	61.09	3054.50
	26.3 25 mm	50	Metre	70.03	3501.50
	26.4 32 mm	50	Metre	83.44	4172.00
	26.5 40 mm	50	Metre	99.83	4991.50
	26.6 50 mm	50	Metre	134.10	6705.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
27	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				
	27.1 MS box of 150 mm x 75 mm x 60 mm deep, 5 / 6 Amps socket outlet and flushtype switch	100	No.	445.90	44590.00
	27.2 MS box of 180 mm x 100 mm x 60 mm deep, 15 / 16 Amps socket outlet and flushtype switch	100	No.	573.30	57330.00
28	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.				
	28.1 4 way ,single door	5	Each	1300.00	6500.00
	28.2 8 way ,single door	5	Each	1560.00	7800.00
	28.3 12 way ,single door	5	Each	1820.00	9100.00
29	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.	5	Each	2795.00	13975.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	Supplying and fixing 5 Amps to 32 Amps rating, 240 volts, 'C' series, 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.				
	30.1 Single pole	20	Each	240.50	4810.00
	30.2 Double pole	20	Each	741.00	14820.00
	30.3 Triple pole	15	Each	1157.00	17355.00
	30.4 Triple pole & neutral	15	Each	1592.50	23887.50
31	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.				
	31.1 40 amps	10	Each	1118.00	11180.00
	31.2 63 amps	15	Each	1183.00	17745.00
32	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.				
	32.1 40 amps	10	Each	2307.50	23075.00
	32.2 63 amps	15	Each	2353.00	35295.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
33	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.				
	33.1 63Amps TP MCB On the existing distribution board / MS box	4	Each	1710.95	6843.80
	33.2 63Amps TPN MCB On the existing distribution board/MS box	4	Each	1710.95	6843.80
	33.3 32Amps TP MCB On the existing distribution board / MS box	4	Each	1710.95	6843.80
	33.4 32Amps TPN MCB On the existing distribution board/MS box	4	Each	1710.95	6843.80
	33.5 32Amps DP MCB On the existing distribution board/MS box	4	Each	1710.95	6843.80
	33.6 25Amps TPN MCB On the existing distribution board/MS box	4	Each	1592.50	6370.00
	33.7 25Amps DP MCB On the existing distribution board/MS box	4	Each	741.00	2964.00
	33.8 6Amps TP MCB On the existing distribution board/MS box	4	Each	1157.00	4628.00
34	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,Kun				
	34.1 1phase, 3 pin, 10 Amps socket & plug top and 10 Amps DP MCB	50	Each	1950.00	97500.00
	34.2 1phase, 3 pin, 20 Amps socket & plug top and 20 Amps DP MCB	50	Each	1950.00	97500.00
	34.3 3phase, 4 pin, 20 Amps socket & plug top and 20 Amps TP MCB	50	Each	3250.00	162500.00
	34.4 3phase, 4 pin, 30 Amps socket & plug top and 30 Amps TP MCB	50	Each	3575.00	178750.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
35	Supplying and fixing of 3phase, 5 pin, 30 Amps socket & plug top of BCH make (cat.no: 2417B socket / 217B plug) with 4pole 30Amps MCB, in 2mm thick MS box, on surface / wall / recess / Column, 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.	50	Each	3900.00	195000.00
36	Supplying and fixing of 5 pin, 63Amps, metal clad socket of BCH make with plug top along with 3pole 63Amps MCB, in 2mm thick MS box, on wall / Column, 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.	10	Each	8450.00	84500.00
37	Supply & fixing steel wire mesh for three phase column mounted / tabular / pedestal mancoolers with necessary binding wires etc.,	25	Each	410.63	10265.75
38	Supply and laying of following earth strip / wire / bus on surface / wall / recess connections as required.				
	38.1 50x6mm GI flat for earthing.	100	Metre	509.60	50960.00
	38.2 25x6mm GI flat for earthing.	200	Metre	318.50	63700.00
	38.3 25mm x 5mm G.I earth strip	100	Metre	283.40	28340.00
	38.4 25x3mm GI flat for earthing.	200	Metre	159.25	31850.00
	38.5 8 SWG GI wire	1000	Metre	50.96	50960.00
	38.6 14 SWG G.I wire	50	Metre	32.50	1625.00
	38.7 8 SWG copper wire	50	Metre	61.09	3054.50
	38.8 14 SWG Bare Copper wire	1000	Metre	50.96	50960.00
	38.9 25mm x 6 mm copper flat	50	Metre	736.06	36803.00
38.10 50mm x 6 mm copper flat	50	Metre	990.85	49542.50	
39	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.	20	Each	479.07	9581.40

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
40	Supply and fixing calling bell / buzzer suitable for AC / DC single phase, 230v, complete as required.	10	Each	273.75	2737.50	
41	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 of Make:Almonard Havells, Crompton, Orient, Khaithan.					
	41.1	450mm sweep	5	Each	3822.00	19110.00
	41.2	300mm sweep	5	Each	2548.00	12740.00
	41.3	150mm sweep	5	Each	1274.00	6370.00
42	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 of Make:Almonard, Havells, Crompton, Orient,					
	42.1	450mm sweep	5	Each	3315.00	16575.00
	42.2	300mm sweep	5	Each	2210.00	11050.00
	42.3	150mm sweep	5	Each	1105.00	5525.00
43	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.	40	Each	479.07	19162.80	

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
44	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).					
	44.1	600mm sweep	5	Each	1300.00	6500.00
	44.2	1200 mm sweep	20	Each	2600.00	52000.00
45	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.					
	45.1	20W flourescent tube	10	Each	300.00	3000.00
	45.2	23W CFL	20	Each	380.00	7600.00
	45.3	18W CFL	10	Each	342.19	3421.90
	45.4	1x(36/40)W FL patti type fitting with lamp	50	Each	410.00	20500.00
	45.5	1x(36/40)W FL box type fitting with lamp	20	Each	460.00	9200.00
	45.6	2x(36/40)W FL box type fitting with lamp	20	Each	600.00	12000.00
46	Supply and fixing the shielded ballbearing for ceiling / exhaust fan for following size of sweep including removing and refixing the same at the original location after proving their performance and having equivalent quality of Make of bearing SKF, FAG.					
	46.1	up to 510mm Sweep	5	Each	650.00	3250.00
	46.2	Exceeding 510mm sweep	5	Each	780.00	3900.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
47	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 cooper 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 there phase outlets are required) and having equivalent quality of Make:GE , Siemens, MDS, legarnd, Havells					
	47.1	4 way DB,100amps MCCB as incomer	2	Each	12025.00	24050.00
	47.2	8 way DB,100amps MCCB as incomer	2	Each	13130.00	26260.00
	47.3	12 way DB, 100amps MCCB as incomer	2	Each	14820.00	29640.00
48	Supply and Erection of mettalic street light standard pole of length as follows in cement concrete 1:3:6 fountation with cement contrete 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).					
	48.1	Length of pole exceeding 4.5 mtrs but not exceeding 6.5 mtrs	5	Each	14000.00	70000.00
	48.2	Length of pole exceeding 8 mtrs but not exceeding 10 mtrs	5	Each	17000.00	85000.00
	48.3	Length of pole exceeding 10 mtrs but not exceeding 12 mtrs	5	Each	20000.00	100000.00
49	Supply and replacing the defective switch / socket and fixing a new switch / socket to existing switch box and having equivalent quality of Make : Anchor , GM , Havells					
	49.1	5A/6A switch	10	Each	26.00	260.00
	49.2	15A/16A switch	10	Each	65.00	650.00
	49.3	5A/6A socket	10	Each	45.50	455.00
	49.4	15A/16A socket	10	Each	78.00	780.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT	
MAKING END TERMINATION						
50		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				
	50.1	3 x 50 sq.mm	10	Each	382.20	3822.00
	50.2	3 x 70 sq.mm	10	Each	509.60	5096.00
	50.3	3 x 95 sq.mm	10	Each	637.00	6370.00
	50.4	3 x 120 sq.mm	10	Each	764.40	7644.00
	50.5	3 x 150 sq.mm	10	Each	891.80	8918.00
	50.6	3 x 185 sq.mm	10	Each	1146.60	11466.00
	50.7	3 x 300 sq.mm	10	Each	1401.40	14014.00
	50.8	3.5 x 50 sq.mm	30	Each	637.00	19110.00
	50.9	3.5 x 70 sq.mm	30	Each	637.00	19110.00
	50.10	3.5 x 95 sq.mm	45	Each	891.80	40131.00
	50.11	3.5 x 120 sq.mm	10	Each	1146.60	11466.00
	50.12	3.5 x 150 sq.mm	10	Each	1210.30	12103.00
	50.13	3.5 x 185 sq.mm	50	Each	1274.00	63700.00
	50.14	3.5 x 300 sq.mm	10	Each	1337.70	13377.00
50.15	4 x 16 sq.mm	50	Each	191.10	9555.00	
51		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/unarmored conductor cable of 1.1KV grade as required				
	51.1	3 x 50 sq.mm	10	Each	535.08	5350.80
	51.2	3 x 70 sq.mm	10	Each	713.44	7134.40
	51.3	3 x 95 sq.mm	10	Each	891.80	8918.00
	51.4	3 x 120 sq.mm	10	Each	1070.16	10701.60
	51.5	3 x 150 sq.mm	10	Each	1248.52	12485.20
	51.6	3 x 185 sq.mm	10	Each	1605.24	16052.40
	51.7	3.5 x 25 sq.mm	10	Each	390.00	3900.00
	51.8	3.5 x 35 sq.mm	10	Each	487.50	4875.00
	51.9	3.5 x 50 sq.mm	10	Each	891.80	8918.00
	51.10	3.5 x 70 sq.mm	10	Each	891.80	8918.00
	51.11	3.5 x 95 sq.mm	10	Each	1248.52	12485.20
	51.12	3.5 x 120 sq.mm	10	Each	1605.24	16052.40
	51.13	3.5 x 150 sq.mm	10	Each	1694.42	16944.20
51.14	3.5 x 185 sq.mm	10	Each	1783.60	17836.00	

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
SUPPLY AND WIRING					
52	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).				
	52.1 PVC conduit (open wiring)	100	Point	1082.90	108290.00
	52.2 recessed PVC conduit (concealed wiring)	50	Point	1274.00	63700.00
	52.3 PVC flat conduit	5	Point	1082.90	5414.50
	52.4 using steel conduit	5	Point	1300.00	6500.00
53	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				
	53.1 using steel conduit	5	Point	1320.00	6600.00
	53.2 PVC conduit	5	Point	1100.00	5500.00
54	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.				
	54.1 1.5 sq.mm	10	Point	650.00	6500.00
	54.2 2.5 sqmm	10	Point	780.00	7800.00
55	Supply and Wiring for circuit / submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor in surface / wall with recessed steel conduit , as required				
	55.1 (2 x 1.5 sq.mm) + (1 x 1.5 sq.mm Earth wire)	10	Metre	162.41	1624.10
	55.2 (2 x 2.5 sq.mm) + (1 x 2.5 sq.mm Earth wire)	10	Metre	178.80	1788.00
	55.3 (2 x 4 sq.mm) + (1 x 4 sq.mm Earth wire)	10	Metre	201.15	2011.50
	55.4 (2 x 6 sq.mm) + (1 x 6 sq.mm Earth wire)	10	Metre	251.81	2518.10

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
56	Supply and Wiring for circuit / submain wiring along with earth wire with the following sizes of FR PVC insulated copper conductor in surface / wall with recessed 2mm thick PVC conduit , as required				
	56.1 (2 x 1.5 sq.mm) + (1 x 1.5 sq.mm Earth wire)	50	Metre	105.79	5289.50
	56.2 (2 x 2.5 sq.mm) + (1 x 2.5 sq.mm Earth wire)	50	Metre	120.69	6034.50
	56.3 (2 x 4 sq.mm) + (1 x 4 sq.mm Earth wire)	10	Metre	144.53	1445.30
	56.4 (2 x 6 sq.mm) + (1 x 6 sq.mm Earth wire)	10	Metre	189.23	1892.30
REMOVING					
57	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.				
	57.1 not exceeding 25sq.mm	250	Metre	82.13	20533.00
	57.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	200	Metre	82.13	16426.00
	57.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	100	Metre	102.66	10266.00
58	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.				
	58.1 not exceeding 25sq.mm	250	Metre	68.44	17110.00
	58.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	250	Metre	68.44	17110.00
	58.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	100	Metre	82.13	8213.00
59	Removing end termination of PVC insulated and PVC sheathed / XLPE armoured (COPPER /ALUMINIUM) power cable of 1.1KV grade				
	59.1 not exceeding 25sq.mm	150	Each	136.88	20532.00
	59.2 exceeding 25 sq.mm but not exceeding 120 sq.mm	60	Each	209.50	12570.00
	59.3 exceeding 120 sq.mm but not exceeding 400 sq.mm	60	Each	209.50	12570.00
60	Removing of 1 x 40W, 2 x 40W box / patti type fitting from wall / ceiling and handing over the same to the department.	50	Each	209.50	10475.00

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
61	Removing of street light 250W HPSV/HPMV MH / lamp fitting and lamp.	20	Each	419.01	8380.20
62	Removing of ceiling fans with regulator and handing over the same to the department.	25	Each	209.50	5237.50
63	Removing of 300 / 450 / 600mm Sweep, 3 Phase 415V Man cooler along with DOL starter and handing over the same to the department..	10	Each	684.38	6843.80
64	Removing of MCB DB/FDBs of 4/8/12ways 16A/32A/63A,from wall/steel structure etc.,	10	Each	205.31	2053.10
65	Removing of Isolators / Fuse Switch Units of 32/63/100/200/315 and 400A from wall/steel structure etc.,	40	Each	273.75	10950.00
66	Removing of old PVC conduit / steel conduit wirings and wires from surface / wall / recess and handing over to the section.	200	Metre	41.06	8212.00
67	Removing of wornout / damaged DSL insulator and replacing new DSL insulator with necessary fixtures. (Insulator will be supplied by BHEL free of cost)	150	Each	205.31	30796.50
REPAIRING					
68	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)				
	68.1 1x40W FL. Fitting	5	Each	273.75	1368.75
	68.2 2x40W(or)2x65W FL. Fitting	5	Each	273.75	1368.75
	68.3 2x20 / 3x20 / 4x20 / 2x14 / 2x36 / 3x36W FL / CFL.	5	Each	273.75	1368.75
	68.4 1x400W / 2x400W / 250W /125W HPMV / HPSV / MH light fitting	10	Each	547.50	5475.00
	68.5 Hi mast light	5	Each	547.50	2737.50
68.6 Flame proof FL. Fitting	2	Each	273.75	547.50	
69	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.	15	Each	104.75	1571.25

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
70	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				
	70.1 up to 510mm Exhaust fan	5	Each	273.75	1368.75
	70.2 up to 1200mm ceiling fan	1	Each	273.75	273.75
CLEANING					
71	General cleaning of THREE PHASE column mounted /tubular man cooler in production shop floors	100	Each	382.20	38220.00
72	General cleaning of SINGLE PHASE ceiling / pedestal fan	50	Each	13.00	650.00
73	General cleaning of cubicle cable trench (open the trench cover and cleaning and removing the unwanted items and covering the trench)	5000	cu. metre	13.00	65000.00
MAINTENANCE OF EARTH PIT AND ERECTION OF EARTH PIT					
74	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)	25	Pit	13.69	342.25
75	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.	125	Pit	34.22	4277.50
76	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)	200	Pit	273.75	54750.00
77	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.	2	Pit	13.69	27.38
78	Earth pits and its surrounding shall be cleaned by the contractor using their own tools.	250	Pit	13.69	3422.50
79	Corroded / worn out funnels shall be replaced by the contractor wherever necessary.	5	Each	136.88	684.40

SL.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
80	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.)				
80.1	The Earth pit excavation may have to be done in ordinary soil	2	Each	5850.00	11700.00
80.2	The Earth pit excavation may have to be done in soft rock	2	Each	7150.00	14300.00
80.3	The Earth pit excavation may have to be done in hard rock	2	Each	9100.00	18200.00
81	TOTAL ESTIMATED VALUE				6031814.73
82	CONTRACTOR'S TENDER PERCENTAGE	_____ %	BELOW	(B1)	(-)
			ABOVE	(B2)	(+)
			AT PAR	(B3)	0.00
		Indicate %	Note	Please Tick(✓)	indicate Amount
(Tender Percentage in words)					
83	Sub-Total (81 ± 82)				
84	Service Tax Amount as per (SL.No.92) of Table given below: (Please refer special instructions to bidders , Clause 18 to 22)				
85	TOTAL BID AMOUNT FOR THE WORK (83)+(84)				
TOTAL BID AMOUNT FOR THE WORK (in words)					
()					

ServiceTax workings (to be filled by bidder)			
86	Total Bidder Value (as per Sl.No.83)	Rs.	
87	Value of Free issue materials by BHEL	Rs.	84,52,974
88	Total value including Value of Free issue Materials (86) + (87)	Rs.	
89	Valuation Percentage for determining Assessable Value for Service Tax	(%)	70%
90	Assessable value for Service Tax ((88) X (89) /100)	Rs.	
91	Service Tax Percentage		12.36%
92	Service Tax Amount ((90) X (91) /100)	Rs.	

Note:

- 1) Instead of subtraction (for tender % quoted below), Total value of work is calculated by addition erroneously, L1 will be decided based on amount arrived by subtraction only. In the same way, instead of addition (for tender % quoted above), Total value of work is calculated by subtraction erroneously, L1 will be decided based on amount arrived by addition only. Any calculation error will be corrected at actuals.
- 2) Tick whichever is applicable. In case of omission in Ticking, figures indicated in the amount column will be considered.
- 3) Any one box (B1,B2,B3) in SL.No 82 is to be ticked as per quote. Indicate the % with appropriate figures.
- 4) If any discrepancy between figures & words, L1 will be decided based on words.
- 5) Approximate free Issue of Material by BHEL is Rs. 84,52,974/-
- 6) Exact free issue of material by BHEL will be intimated during execution of work and will be calculated at the time of billing for service tax workings .