



**BHARAT HEAVY ELECTRICALS LIMITED
INDUSTRIAL VALVES PLANT
GOINDWAL, PUNJAB-143422**

TENDER FOR ELECTRIFICATION OF BAYS, STORAGE YARDS, ETC.

TENDER ENQUIRY NO: 02/08-09

Contact Person:

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**BHARAT HEAVY ELECTRICALS LIMITED
INDUSTRIAL VALVES PLANT
GOINDWAL, PUNJAB-143422**

TENDER DOCUMENT

I N D E X

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**BHARAT HEAVY ELECTRICALS LIMITED
INDUSTRIAL VALVES PLANT
GOINDWAL, PUNJAB-143422**

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|---|--|
| 1. Name of work | : Electrification work in the bays, storage yard, etc. |
| 2. Earnest Money Deposit | : Rs.10000/ |
| 3. Approximate value of work | : Rs.4.5 Lakhs. |
| 4. Time of Completion | : 8Months |
| 5. Maintenance period | :12 Months |
| 7. Last date & Time of receipt of tenders | :10.03.2009(14.30hrs) |
| 8. Date and time of opening of tenders | : 10.03.2009(15.00 hrs) |
| 9. Cost of tender documents | : Nil |

Name & Address:

EMD PAID / NOT PAID

TENDERING PROCESS

A. Tender documents are issued in two bid system.

1. Technical bid
2. Price bid

B. Tender opening

The tender shall be on two part bids. Only technical bids are to be opened on date of opening of the bids. After scrutiny and acceptance of the technical bids, price bids of accepted parties only will be opened. The date of opening price bids will be intimated separately.

C. The technical bid consists of technical schedule requiring documentary proof. In case the agency has not satisfied all the conditions along with documentary proof, the tender will be rejected.

D. Technical and price bids must be in separate covers and super scribed as "Technical bid" and "Price Bid" separately with item Nos. clearly written on the covers. Tenders received mixed (with price and technical bids) will be rejected. Every page of the price bid document shall be signed by the tenderer at the bottom of the page.

E. EMD for work to be submitted along with the Technical bid in the form of DD (in favour of BHARAT HEAVY ELECTRICALS LIMITED, IVP GOINDWAL, PUNJAB-143422) or cash receipt deposited in our account department.

SIGNATURE OF TENDERER

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TECHNICAL CUM COMMERCIAL BID (TOBE FILLED IN BY TENDERERS)

1. Name of the Contractor / Firm :
2. Address & Phone No :
3. Name of work :
4. Tender Notice No & Date, Item No :
5. Details of DD / Cash paid
For EMD :
6. Particulars of experience / credentials
Whether all details as per pre-
Qualification requirements enclosed :
7. P.F.Code No (proof of having Code No
to be enclosed) :
8. ESI Code No (proof of having Code No.
to be enclosed) :
9. PAN No with proof (in case not
available, proof of having applied
with acknowledgement from concerned
authorities to be enclosed) :
10. VAT No / TIN No. if any. :
11. Labour Licence No. :
12. Financial turn over during the last
three years. :
13. Registration of contractor :

NOTE:-

1.The above documents should be given along with the tender as otherwise, contractor's bills can not be processed and payments may be held up.

2.Techno commercial bids will be opened on the same day of receipt. After scrutiny in case the agency has not fulfilled all the above conditions with

documentary proof, the bid is liable to be rejected and their price bid will not be opened.

3. In case of a firm, the tender shall be in the name of the firm, and for individual these can be in the name individual. In case of sole proprietorship of a firm he should submit a notarized affidavit to that effect. For partnership firms, the deed of partnership and power of attorney are to be submitted.

4. Though some of above documents are available with BHEL for those agencies who are presently working with BHEL, they also should submit one copy of the same.

5. All the columns shall be filled with proper information.

6. BHEL reserves the right to reject or cancel the tender at any stage of the tender process without assigning any reasons there of.

7.A tender may be rejected while scrutiny of technical bids in case there is unsatisfactory past performance in the execution of an earlier contract.

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PRE QUALIFICATION

- I. The following conditions are to be satisfied by the tenderers, with documentary proof to be enclosed with technical bid. In case the agency fails to do so it is liable for rejection
 1. Registered / Reputed contractors are eligible, to tender for all the works.
 2. Experience having successfully completed Electrical / Similar works during last 7 years, ending last day of the month previous to the one in which applications are invited should be either of the following.
 - a. Three similar completed works costing not less than the amount equal to 40% of the estimated cost.

OR
 - b. Two similar completed works costing not less than the amount equal to 50% of the estimated cost.

OR
 - c. One similar completed work costing not less than the amount equal to 80% of the estimated cost.
 3. Average annual financial turnover during the last 3 years, ending 31st March of the previous financial year, should be at least 30% of the estimated cost.
 4. ESI code no. with proof of allotment.
 5. P.F.Code no. with proof of allotment.
 6. VAT No. with proof of allotment or applied proof.
 7. PAN number with proof of allotment.
 8. Valid Labour Licence submitted before commencement of work.
 9. If the contractor has not quoted the rate for the any item(s), it is considered as incomplete tender and tender can not be accepted.
 10. The contractor shall affix his signature at the end of each page of this tender documents (technical and price bids).
 11. BHEL shall have the right to reject any tender based on past unsatisfactory performance.

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12. The rates quoted for all the items of work shall be inclusive of all Taxes and Duties levied by State / Central Government organization as well as Local authorities as applicable including works contract Vat / Service Tax etc. The agency shall submit proper document evidencing the payment of applicable Tax / Duty based on which BHEL can avail credit. Other wise the payment to the contractor will be reduced to that extent.

II.(1) Tenders must be submitted in sealed covers addressed to Sr. Manager(Operation),BHEL,IVP GOINDWAL, PUNJAB-143422 032. Tenderer shall write Tender Notice No, and name of work and address of the tenderer on each sealed cover. In case the agency fails to comply any of the above, the tender will be liable for rejection.

(2) The agency is responsible for all the statutory requirements & documentations for ESI / PF etc as per prevailing Government Rules / Labour Rules. Any amount payable by BHEL on account of these requirements shall be recovered from contractor's bills / deposits.

III. NOTES:-

1. Period of contract shall be as mentioned above.
2. Tenders are on two – part bid method (techno commercial bid and price bid).
3. Tender documents can be downloaded through BHEL web-site <http://www.bhel.com> at free of cost.
4. The requisitions for tender documents shall be addressed to Sr. Manager(Operation),BHEL,IVP GOINDWAL, PUNJAB-143422 032.Tender documents shall be collected in Person by the contractor or his authorized representative.
5. The agencies are advised to visit the work site to understand the nature of work / quantum or work in its true perspective to avoid any mis – understanding.
6. The tender documents may also be submitted through speed post or by post to reach within the stipulated date and time.
7. Tender bid without EMD are liable for rejection.

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- 8 BHEL reserves the right to reject any or all tenders in part or in full without assigning any reasons.
9. BHEL reserves the right to split the work into convenient parts and award them to different contractors.
10. The conclusion of contract will be in the form prescribed by BHEL for the purpose. A copy of the general conditions of contract applicable to the above works is available for perusal at the office of the Sr.Manager (Operation) If a copy of the same is required for record, the same will be issued separately at Rs.100/- per set.
11. A penalty of 0.5% of the gross value of work will be levied for every weeks delay in work subject to a maximum penalty of 10% of the gross value of work.
12. Separate Covers (i.e.)
 - Cover-A - for Technical Bid (sealed cover)
 - Cover-B - for Price Bid (sealed cover)
 - Cover-C - common cover for technical and price bid are to be submitted, super scribing the name of work and NIT number on each over.
13. Tender will be finalised on lowest cost to BHEL based upon the unit rate in to quantity against each item. Thus arriving to total value of the tender along with applicable taxes and duties. Tenderer should quote unit rate for all the items. In case unit rate is not quoted for any / all items it will be treated as an incomplete offer and tender will be rejected.
- 14 A tender may be rejected while scrutiny of technical bids in case there is unsatisfactory past performance in the execution of an earlier contract.
15. The rates quoted by the contractor shall be inclusive of all taxes as applicable from time to time.
16. All the bills of the contractors will be cleared subject to the production of clearance certificate by the contractors in respect of compliance of all statutory requirements, issued by IR section of personnel department.

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Special Instructions: -

1. All BHEL General Conditions of the Contract shall be applicable.
2. Any statutory increase in the labour wages during the period of execution shall be borne by the agency. The agency shall quote the firm rates considering the possible labour escalation also.
3. The agency should affix his signature at the end of each page of the document.
4. The department reserves the right to split and award the work to more than one agency.
5. The contractor should follow all the safety precautions, special conditions of safety attached at annexure I while executing the work.
6. The contractor should engage labours who should not be less than 18 (eighteen) years age.
7. All the bills of contractors will be cleared by Finance Department subject to production of "Clearance Certificate" by the contractors in respect of compliance of all statutory requirements, issued by I R section of Human Resource Department.
8. All the materials and equipments required for execution of Electrification works against items in the contract are to be entered at Security gates and supplied to site by contractor for using in works.
9. Rates quoted shall be firm throughout the period of the contract and no price escalation is payable under this contract on any account.
10. The tenderer shall comply with all statutory requirements pertaining to the state or any government agencies or authorities Example, PF, ESIC, workman's compensation & personnel accidents insurance. The company will not be responsible for any claim made by the workers or government agencies / authorities.
11. Time is the essence of the contract. If agency fail to complete the work with in stipulated time, agency is liable to pay penalty as mentioned below. 0.50% of the gross value of work will be levied for every weeks delay by the agency subject to a maximum of 10% value of the work.
12. BHEL is an ISO 14001 & OHASAS 18001 certificate company and always strives for excellence in HSE management.
13. Agency will also ensure that qualified and experienced site staffs are available at all times during working hours in order to ensure proper supervision and to maintain the quality . You should take precaution regarding the safety of labour during the

execution of the work. Company shall not accept responsibility for the safe keeping of your tools, tackles and materials etc., you will therefore provide and maintain at your own cost locking, watch and ward when and where necessary.

14. Agency should submit daily progress report along with consumption of materials at site, weekly progress report with photographs, all test reports, as well manufacture test certificates as when required.

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NOTICE INVITING TENDER

Tender Enquiry No: 02/08-09

1. Sealed Tenders are invited for the following work from reputed contractors who meet the Qualification Requirements.

Nature of work	Earnest money deposit (Rs)	Issue of tender document	Tender submission date and time	Tender opening date and time	Estimated Value of Tender
Electrification of newly constructed BAYS,STORAGE YARD etc.	10000(Ten thousand rupees)	14.02.09 To 09.03.09	10.03.09 (up to 14.30 hrs)	10.03.09 (up to 1500 hrs)	4.5 lakhs

Cost of Tender Documents –Nil.

2. Address for collection, submission of tender documents & opening of Tender

Sh.Gurcharan Singh
Sr.Manager(Operation)
BHEL, IVP GOINDWAL
Goindwal
Punjab-143422
Ph.: 01859- 223384(Direct), 222002, 036, 039, 041. Ext: 201
Fax: 01859 - 222061
Email-gs@ivp.bhel.co.in

b) **Submission of tenders:**

A) By Post/ Courier at

To the above mentioned address.

B)By hand at BHEL, IVP GOINDWAL.

3. Tender documents may be obtained from the above office by submitting an application or can be downloaded from our website-http://www.bhel.com/tender/list_tender.php.

4. The Earnest Money Deposit shall be paid by a Demand Draft in favour of Bharat Heavy Electricals Limited, payable at Goindwal, Punjab along with the bid in separate sealed envelop or in form of cash receipt deposited in our account department.

5. The offer is to be submitted in a sealed envelope properly marked .The tender shall be submitted in two parts. The first part shall consist of the techno commercial offer without price schedule and marked on top of the envelope as “Part I -Techno-commercial Bid” along with tender enquiry no. and due date. The second part shall be the price schedule and marked on top of the envelope as” Part II - Price Bid” along with tender enquiry no

and due date. Each part shall be in a separate sealed envelope. Both the parts shall then be put in a bigger sealed envelope. The tender enquiry no. & due date of opening must be clearly mentioned on top of the envelope.

6. Part I of the bid will be opened first and scrutinized. Successful bidders in techno commercial bid Part – I will only be considered for opening of Price Schedule i.e. Part – II. Date of opening of Price Bid will be intimated separately to the Tenderers who qualify in the Techno-Commercial bid.

7. Offers should be strictly in accordance with the tender specifications & General Instructions to the Tenderer enclosed herewith.

8. Only Tenderers who have previous experience in the work of the nature and description detailed in this tender specification are expected to quote for this work. Offer from Tenderer who do not have proven and established experience in the field as per PREQUALIFICATION will not be considered.

9. Tenderers are advised to go through the project scope of work, site location etc and get them fully acquainted with the work place and prevailing working conditions before submitting the Offer.

10. The Tenderer should accept all terms & conditions of the tender unconditionally. In case the Tenderer wants to deviate from the tender conditions, such deviations shall be clearly specified in the offer. If no deviations are given in the offer, it will be assumed that the Tenderer accepts all terms and conditions of the tender.

11. Offers with deviations from terms and conditions of this tender are likely to be rejected.

12. EMD by the Tenderer will be forfeited as per Tender Document if.

- i) After opening the tender, the bidder revokes his tender within the validity period or increases his quoted rates.
- ii) The tenderer does not commence the work within the period as per Contract

13. The offer shall be valid for a period of 90 days from the date of opening of the tender.

14a. Security Deposit should be collected from the successful tenderer.

The rate of Security Deposit will be as below:

Upto Rs. 10 lakhs	:	10%
Above Rs. 10 lakhs Upto Rs.50 lakhs	:	Rs. 1 lakh + 7.5% of the amount exceeding Rs. 10 lakhs
Above Rs. 50 lakhs	:	Rs. 4 lakhs + 5% of the Amount

Exceeding Rs. 50 lakhs

If the work is awarded, the agency has to pay 10% of contract value towards Security Deposit in advance on contract value before commencement of work.

14b. Security Deposit may be furnished in any one of the following forms.

- i) Cash (as permissible under the Income Tax Act)
- ii) Pay Order, Demand Draft in favour of BHEL.
- iii) Local cheques of scheduled banks, subject to realization.
- iv) Securities available from Post such as National savings Certificates, Kisan Vikas Patras etc.
- v) Bank Guarantee from schedules Banks / Public Financial Institutions as defined in the Companies Act subject to a maximum of 50% of the total security deposit value. The 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.
- vi) Fixed Deposit Receipt issued by scheduled Banks / Public Financial Institutions as defined in the companies Act. The FDR should be in the name of the contractor, A/C BHEL, duly discharged on the back.
- vii) Security Deposit can also be recovered at the rate 10% from the running bills. However in such cases at least 50% of the Security Deposit should be deposited before start of the work and the balance 50% will be recovered from the running bills.
- viii) EMD of the successfully tender shall be converted and adjusted against the security deposit.

NOTE: Acceptance of Security Deposit against Si. No. (iv) and (vi) above will be adjusted 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.

14c. Security Deposit shall not be refundable to the contractor except in accordance with the terms of the contract. The Security Deposit will be released along with final bill or after **1 Year** maintenance period whichever is later.

15. Clarifications, if any, of Technical / Commercial nature, can be obtained from the officer to whom the tender is to be submitted up to one week before the tender due date.

16. The Tenderers are required to quote for the complete scope of work with rates for all the items & no column should be left blank. Tenders for part of the work or incomplete in any respect are liable to be rejected. Tenders shall certify in the Techno- commercial bid that rates for all the items have been quoted.

17. Order will be placed on a single bidder for the complete scope of work.

18. Penalty will be levied by BHEL as per relevant clauses of the Tender on account of delay, violation of contract conditions and non-performance of the Contractor.

19. All documents submitted by the Tenderer in his offer shall be accompanied with a covering letter giving index interlinking all the documents.

20. BHEL reserves the right to accept or reject any of the bid / all bids with or without deviation or cancel / withdraw the invitation for bid without assigning any reason whatsoever and in such case no bidder shall have any claim arising out of such action by BHEL.

21. BHEL reserves the right to reject the tender from any bidder on the basis of unsatisfactory performance of the bidder in any ongoing job or any similar job of BHEL in last five years, or if the bidder has been kept under hold/ blacklisted by BHEL.

22. Payments will be made on unit basis against the completed work in all respects per month. Bill should be entered in measurement book with all details. Release of payment may take about 15 days from all clearances.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY.

DIRECTIONS TO PARTIES FOR TENDERING

1. A list of materials, proposed to be supplied by the Bharat Heavy Electricals Limited, Goindwal, Punjab – 143422, and the places where is given in Schedule-A . Subsidiary items such as water for work, clearing and marking out site, hire of tools and plants should be separately entered. If such items are not so entered, it will be assumed that the rates quoted, in the schedule include provision for them also.
2. The tenderer shall examine closely, the PUNJAB Standard specifications. He shall also carefully study the drawings and additional specifications and all the documents which form part of the agreement to be entered into by the accepted tenderer.
3. Each tenderer must quote the PAN no. with proof of allotment by the Income Tax Authority. In the case of proprietary firm, it will be necessary to quote the aforementioned for the proprietor or proprietors and for each of the partners as the case may be.
4. Every tenderer is expected, before quoting his rates to inspect the site of the proposed work. He should also inspect the quarries, and satisfy himself about the quality and availability of materials.
5. Time shall be considered as the essence of the contract. The rate of progress as mutually agreed to is required to be maintained. Date of commencement of this programme will be the date on which the site (or premises) is handed over to the contractor.
6. The tenderer should quote specific rates for each item in the schedule and the rates should be in rupees and paisa or as directed in the Schedule-A. The units and rates should be written both in words and figures. The schedule accompanying the tender shall be written legibly and free from erasures, over writings or corrections of figures. Corrections where unavoidable should be made by crossing out, initialling, dating and rewriting. No alterations which are made by the tenderer in the tender form, the conditions of agreement, the drawings or specifications accompanying the same will be recognized and if any such alterations are made, the tender will be void.

SIGNATURE OF TENDERER

ACCEPTING AUTHORITY

TENDER FOR THE WORK

I/We_____do hereby tender to execute works of the under mentioned description and in accordance with the conditions noted below in consideration of payment being made for the quantity of work executed at the respective rates specified in the following schedule.

I / We hereby distinctly and expressly declare and acknowledge that before the submission of my / our tender I / We carefully followed the instructions in the tender notice and have read the Punjab Standard specification and the clauses of the preliminary specifications and that I /We have made such examination of the contract documents and of the specifications etc., and of the location where the said work is to be done and such investigation of the work required to be done and in regard to the material required to be furnished as to enable me/us thoroughly to understand the intention of same and the requirements, covenants, agreements, stipulations and restrictions contained in the contract and in the said specifications and distinctly agree that I /We will not hereafter make any claim or demand upon the Bharat Heavy Electricals Limited based upon or arising out of the said requirements, covenants, agreements, stipulations, restrictions and conditions.

SIGNATURE OF TEN

ACCEPTING AUTHORITY

Address

TENDERER'S AND CONTRACTOR'S CERTIFICATE

1. I hereby declare that I have perused in detail and examined closely the Punjab Standard Specifications and it's addenda volume and also BHEL General Conditions of contract. I agree to be bound by and comply with all specifications contained in Punjab Standard Specification and General Conditions of contract, for the various items of works specified in the Schedule "A" and the work as a whole.
2. I hereby declare that I shall pay the statutory minimum wages to my workers as applicable from time to time. I shall also adhere to all the statutory obligations under Contract Labour (Regulation and Abolition) Act 1971 and Rules framed there under with subsequent revisions if any.
3. The daily wage rate of labour applicable as per Punjab State Government for Unskilled worker, skilled worker & Supervisor.
4. The Contract/Job Executing Officers are required to ensure that Contractor pays the 'Daily Wages' as shown above to their Labour after deducting Employee contribution towards PF & ESI at the rate of 12% and 4.75% respectively on the daily wages w.e.f 01.10.2005. Contract Labour is also entitled for Holidays which are applicable to BHEL and 1 day leave for every 20 days of working.
5. Contractor shall pay 12% PF and 1.61% Administrative charges towards PF and 4.75% towards ESI as Employer's contributions. The contractor shall remit the above contributions along with Employee's contribution to PF & ESI departments and file monthly returns by 20th of every following month. Contractor shall also provide uniform, shoes and other personal protective Equipments (PPEs) wherever applicable to their Labour.

6. Any increase in rate of DA/Wages hike shall not be reimbursed to the contractor. Contractor shall anticipate such hike, and quote in the tenders. It shall be noted that any increase of DA/Wages shall be absorbed by the contractor himself and BHEL will not reimburse the increase in DA/Wages.

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CONTRACTOR'S OBLIGATIONS

A) CONTRACTUAL

- a. Contractor shall decide the number of employees to be deployed for execution of the work awarded to him and he or his authorized representative will be solely entitled to dictate such workers about the manner of carrying out the work as per the prescribed specifications and quality plan.
- b. Contractor shall supervise the work allotted to him and to be carried out by his employees.
- c. Contractor to ensure that the employees deployed in the premises of BHEL are physically and mentally fit and do not have any criminal record. Such employees should possess requisite skill, proficiency, qualification, experience etc.
- d. Contractor to maintain appropriate records of his employees deployed to carry out the job (s).
- e. Contractor should issue appropriate appointment letters to his employees.
- f. Contractor to provide employment card / identity card with photograph duly verified and attested by the Contractor to his employees. Contractor to indicate the name of the proprietor / partnership firm / company, place of work, contract number and duration of validity of card.
- g. Contractor will be responsible for the good conduct of his employees. In case of any misconduct / misbehaviour by any employee, the contractor will replace such employee (s) immediately.
- h. Contractor will ensure that the job is executed through his employees on his rolls and under no circumstances the contractor will deploy any casual employee to carry out the job nor shall sub-contract the job without prior written permission.
- i. Contractor will keep watch on his employees and he will be liable for any pilferage / loss to BHEL due to acts of omission and commission by his employees. Similarly, liability for any compensation to outsiders on account of any act of omission and commission by the employees deployed by the contractor shall lie exclusively with him.
- j. Contractor to provide safety appliances and safety shoes to his employees. The contractor shall be responsible and safety regulations as applicable.

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- k. Contractor to ensure that all precautions are taken for safety of his employees and equipments.
- l. In the event of termination of contract for any reason whatsoever, the contractor shall withdraw all his employees from the establishment of BHEL. In case contractor decides to terminate services of his employees, he should settle all terminal dues including retrenchment compensation.
- m. Contractor shall provide to his employees all tools, tackles and equipments and maintain the same to carry out the job under the contract at his cost and if necessary contractor may take insurance policy of his men, material, equipments and tools and tackles.
- n. Contractor shall provide safety appliances and maintain the same at his own cost which may be required under the statute or otherwise.
- o. Contractor shall provide material at his cost as mentioned in the contract to his employees for carrying out the job.

B) TOWARDS STATUTORY LIABILITY

- a. All statutory requirements under Minimum Wages Act 1948 Payment of Wages Act 1936 Workmen Compensation Act 1923, EPF & MP Act 1952, Payment of Gratuity Act 1972 ESI Act, 1948, the Contract Labour (R&A) Act 1970, Payment of Bonus Act 1965, Income Tax Act, Service Tax Act and all other applicable Acts shall be complied with by the contractor.
- b. Contractor shall comply with all statutory requirements, rules, regulations, notifications in relation to employment of his employees issued from time to time by the concerned authorities.
- c. Contractor shall ensure payment of statutory prescribed minimum wages as applicable from time to time in the presence of authorized representative of BHEL and maintain proper records of their timely disbursement. These records need to be preserved for a period of at least 3 years and should be made available even after the contract is over for any verification by the statutory authorities / BHEL authorities.
- d. Contractor to provide PF pass book to his employees and ensure payment of PF, EDLI, pension dues under EPF & MP Act 1952 to the RPFC.

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- e. Contractor shall ensure payment of ESI contribution under ESI Act 1948 and provide ESI membership No / Card of each employees.
- f. Contractor shall produce proof of deductions as well as remittances of PF, EDLI, Pension, ESI contribution, administrative charges etc., wherever applicable and shall maintain proper records. Contractor to issue wage slips to his employees.
- g. Contractor shall furnish proper returns to the concerned statutory authorities and provide a copy of the same to BHEL.
- h. Contractor shall be solely responsible for non payment / delayed payment of wages / DA, contributions under EPF & MP Act, ESI Act etc.
- i. In case the contractor fails to make payment of wages to his employees or remittance of contribution to the concerned authorities, the security deposit / other dues / running bills under the contract can be utilized by BHEL to discharge the liability of the contractor.
- j. Contractor shall indemnify BHEL against all claims and losses under various Labour Laws, statutes or any civil or criminal law in connection with employees deployed by him.
- k. The liability for any compensation on account of injury sustained by an employee of the contractor will be exclusively that of the contractor.
- l. Contractor to obtain insurance cover for his employees / equipment, tools and tackles etc and take third party risk insurance coverage at his own cost. BHEL shall not be responsible for any loss, damage pilferage of his property and / or his employees.
- m. Contractor should have independent code numbers / exemptions under EPF & MP Act 1952 and ESI Act 1948 and shall cover his employees under the said codes.
- n. Payment of bonus under the Payment of Bonus Act Payment of gratuity under the Gratuity Act, and retrenchment compensation under Act will be the sole responsibility of the contractor.
- o. Over and above the daily wage rate, payment shall be made for leave with wages.

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ACCEPTING AUTHORITY

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- p. Contractor shall observe Provisions of the Factories Act in respect of working hours, holidays, rest intervals, leave and over time to his employee. No work shall be done on second / third shift, overtime, Sundays or on other declared holidays without written permission.
- q. In case a contractor employs women as employee he will discharge his obligation under law in respect of such women workers such prohibition of engaging them during night-hours, prohibition of employing them for more than 9 hours per day, provision of crèche facility, grant of maternity leave as per rules etc.
- r. Contractor shall be responsible for making payment of wages before expiry of 7 days from the last day of wage period and to ensure disbursement of wages in the presence of the authorised representative of contract operating division who shall record under his signature at the end of entries in the Register of wages.
- s. Contractor to obtain license under CL (R&A) Act 1970.

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ACCEPTING AUTHORITY

GENERAL TERMS & CONDITIONS

1. The contractor shall comply with the following general terms conditions and special instructions.
2. The contractor shall fully comply with the following enactments:
 - a. Contractor Labour (R&A) Act, 1971.
 - b. Wage Rates not less than that notified by State Labour department from time to time.
 - c. Payment of Wages Act.
 - d. ESI Act, 1948.
 - e. EPF Act, 1952.
 - f. Workmen's Compensation Act, 1923.
 - g. The company's instructions as issued from time to time in regard to working hours, wages, leave, holidays etc.
3. The Contractor shall obtain license from the Assistant Labour Commissioner (Central), or appropriate Government if he engages 20 (Twenty) or more workmen only.
4. The contractor shall observe
 - (a) Weekly rest day.
 - (b) The company list of holidays.
5. Contractor shall obtain complete bio-data of the labour, employment certificate and Antecedent verification in the prescribed form for each labour and supervisor engaged by him and shall submit the same to the Personnel Department / IR section through the contract executing officers before commencement of the work.
6. The Entry permits are to be issued to the Contract Labour by Chief Security Officer, BHEL, based on the requisition submitted by Contract Executing Officer and forwarded by Sr. manager / Operation.
7. Every contractor shall submit a notice regarding commencement and completion, of work to Personnel Department, IR section through his contract executing officer, for forwarding the same to State Labour Department.
8. The contractor shall make himself of his representative available at the work spot everyday during execution of work, for effective supervision.

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9. The contractor shall attend to all inspections notified / conducted by the Personnel Department, Labour Department, P.F. authorities. Factory Inspectors ESI Inspectors or any other such authorities under the act.
10. Non – compliance of any provisions under the act/ rule/instructions / guidelines shall make the contractor liable for penal action including termination of contract.
11. Contractor shall furnish in a separate letter his place of residence and postal address. The delivery at the above named place or posting in a Post box regularly maintained by the post and telegraph Department or sending letters registered for acknowledgement of any notice, letter or other communication to the contractor. Change in address shall come into force at any time by an instrument executed by the contractor and delivered to the Company official who has signed the contract.
12. The contractor must satisfy himself by personal study and examinations of the drawings / specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time dispute / complaint of any misunderstanding with regard to scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done not shall any application for compensation in terms of time and money shall be accepted by company regarding the above.
13. Contractor shall in his absence keep competent agent constantly on the works and any directions or explanations given by the “Contract Signing Officer” or his representative to such agent shall be held to have been given to the contractor himself.
14. Contractor on the advise of company official shall immediately remove any person employed by him, who may in the opinion of the company official is incompetent or misconducts himself and such persons shall not be again employed on the works without permission of the company official.
15. The contractor shall erect and maintain at his own cost temporary weather proof sheds at such places approved by the company for keeping materials under cover.
16. The contractor shall give all notices required by the acts regulations, bylaws, legal acts and pay all fees in connection therewith unless and otherwise arranged and decided in writing with the company. He shall also ensure that no attachments are made against materials or work forming part of or for the use of the contractor. In all such cases, contractor shall protect and indemnify the company against any claim or liability arising from or based on the violation of any such laws, ordinances, regulations ,orders, decrees or attachments either by himself or by his employees,

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17. It shall be contractor's sole responsibility to protect the public and his employees against accident from any cause and provide required safety equipments and shall indemnify, the company against any claims for damages for injury to the person or property resulting from any such accidents and shall, where the provisions of the workmen's compensation act apply, take steps to properly insure against any claims there under.
18. In the event of any accident in respect of which compensation may become payable under the workmen's compensation act. VIII of 1923 whether by the contractor or by the company as principle employer, it shall be lawful for the company to retain out of monies due and payable to the contractor such sum or sums of money as may, in the opinion of the company shall be final in regard to all matter arising in this clause.
19. No work shall be done on Sundays or on other declared holidays of the company without the written permission of the company officer in charge of the work. The contractor shall comply with the provisions of the Factories Act Rules framed there under if the same are applicable.
20. The contractor shall keep his work place clean and safe to avoid injuries to men and damage to finished products / equipments.
21. On the occurrence of an accident, which results in the death of any of the workmen employed by the contractor or which is so serious as to be likely to result in the death of any such workmen, the contractor shall within 24 hours of the happening of such an accident intimate in writing to the company official in charge of the work.
22. The contractor shall indemnify the company against all losses or damages sustained by the company resulting directly or indirectly from his failure to give intimation in the manner aforesaid including the penalties or dues if any and become payable by the company, as a consequence of failure, the company to give notice under the workmen's compensation act or otherwise confirm to the provisions of the said act in regard to such accident.
23. The contractor shall ensure adherence to all statutory requirements applicable to BHARAT HEAVY ELECTRICALS LIMITED, Goindwal, Punjab-143422.
24. The contractor shall ensure abidance by all the labour laws especially including contract labour (R & A) Act, payment of wages Act, workmen's compensation act, minimum wages Act ESI Act and Provident Fund Act as amended from time to time.
25. The contractor shall comply with provident Fund Act through PF code allotted to him.
26. Notwithstanding the clause, in case of any financial loss incurred by the company on account of contravention of the Provident Fund regulations or any regulations of rule touching the same by the contractor, the contractor shall submit an undertaking to indemnify the company to the extent of the loss incurred by the company.

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27. The contractor should engage only those labourers who shall be more than 18(eighteen) years of age.
28. The contractor shall not resort to sub-contracting under any circumstances. If found subcontracting at a later date, BHEL reserves the right to take whatever action it deems fit, including cancellation of the contract.
29. The contractor shall provide the required safety equipment to the labours engaged by him.
30. Contractor shall issue "Employment Card" as per statute to all the labour and supervisors covered under the job work contract.
31. The contractor shall be responsible to settle any grievances of the labour deployed by him.
32. Whenever the term "CONTRACTOR" is used, it shall be understood to refer to the particular person, firm or corporation with whom an agreement has been made by the concerned company official for executing the work defined in the concerned agreement and for the purpose of instructions regarding compliance with contract conditions, it shall include the contractor's authorised agents, who are entrusted with the work by contractor.
33. The quantities mentioned in the agreement schedule are worked out from the relevant drawings in the company and may not be the actual required for execution.
34. The company does not expressly or by implication agree that the actual amount of the work to be done shall correspond there with, but reserves the right to increase or decrease the quantity of any class or portion of the work as he deems necessary.
35. All the works shall be carried out in accordance with the directions and to the satisfaction of the company official in accordance with the drawings, specifications and instructions. Supplementing or explaining the same from time to time shall be done by the company official.
36. For all modifications, omissions or additions to the approved drawings and specifications, the company shall issue revised plans or written instructions and no modifications, omission or addition shall be made unless so authorized and directed by the company in writing at any time before completion of the work.
37. The company shall have the privilege of ordering modifications, omissions, or additions at any time before completion of the work.
38. All materials, articles, and workmanship shall be the best of their respective kinds for the class of work described in the contract specifications and schedule and materials to be obtained by the contractor shall be from sources approved by the company.

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39. Sample of materials shall be furnished by the contractor at his expense to the company when called for before execution of any work.
40. The company shall have power to reject at any stage, any work which is considered to be defective in quality of materials or workmanship and shall not be debarred from rejecting wrong material by reasons of having previously passed them in an un-worked condition. Any portion of the work or materials rejected or pronounced to be inferior or not in accordance with specifications shall be taken down and removed from the work site at the contractor's expenses.
41. The decision of the company shall be final and binding on the contractor on all technical questions which may arise in the contract with respect to material, workmanship, removal of improper work, interpretation of the working drawings, specifications, notes, procedures etc.
42. The decision of the "Contract Signing Officer" or any officer deputed by him duly authorised on his behalf, in respect of the rate of progress and the quality of work or material shall be final.
43. Contractor shall be deemed to have included in his tender price of all the plant. Machinery and appliances required for the purpose of all operations connected to secure a satisfactory quality of work within the opinion of the company will ensure the completion of the work within the time specified.
44. If at any time, during the progress of work or any part of it such methods or equipment appear to the company official to be insufficient or inappropriate for ensuring the quality of work required or rate of progress, he may order the contractor to increase their efficiency or to improve their quality of work and the contractor shall comply with such order and on failure of which the company may take such action as it deems it fit to improve the quality of work or the rate of progress required from the contractor and all such actions taken by the company shall be at the cost and risk of the contractor.
45. It is open to the company to lend or supply to the contractor any tools, implement, material and machinery that are needed by the contractor, which in the opinion of the company is essential to improve the quality or progress of work. The contractor shall pay such deposit or charges that may be fixed or determined by the company for any such articles or machinery lent or hired to the contractor.
46. Any electric power required for contractor's machinery for the purpose of work shall be supplied by the company at the written request of the contractor at one point subject to the observance of rules and regulations of Electric board / company and charges there on shall be recovered from the contractor.
47. The contractor shall confirm to the regulations and laws of central / state govt. or any local authority and that of the company with whose system the machinery is supposed to be connected.

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48. All rubbish as it accumulates shall be removed from the site to the point of disposal as indicated from time to time by the company. If this is not adhered to, the company shall remove the scrap and recover the cost of these operations from the bills of the contractor.
49. Any sum due from the contractor on account of tools and plants, stores, or any other items provided by the company shall be deducted from the respective bill due to him.
50. In case of breach of any of the terms and conditions of the contract, a claim shall be lodged under the bank guarantee with the guarantor at the discretion of the competent authority of the company. On successful completion of the contract to the satisfaction of the company, the bank guarantee shall be released after due claim period.
51. In the event of any question or dispute under this contract, the same shall be referred to a competent Authority in the company for sole arbitration and his decision shall be final and binding on the parties to the contract.
52. In case of any suit or other legal proceeding arising under this contract, the courts at Amritsar, Punjab only shall have the Jurisdiction.
53. The company reserves the right to enter into parallel agreement with one or more contractors at their direction.
54. Disputes, grievances between the contractor and his labour, will have to be settled by the contractor only.
55. The labour employed by the contractor, if found in abetting and fellow labour or contractors or any BHEL employee, the same shall be considered as an act of indiscipline. Such labourers shall be removed from the services of the contractor, on the advice of BHEL. Further the contractor shall initiate every necessary action in accordance with the relevant Laws, Rules & Regulations and enactments of State and Central Government.
56. Wherever, BHEL/COMPANY standards are mentioned, copies of which are enclosed they shall be strictly followed.
57. Nothing contained in the contract agreement and its conditions shall be deemed to preclude or render inoperative the service of any notice, letter or other communication upon the contractor personally.
58. The decision of the “Contracting Signing Officer” shall be final and binding on the contractor on all technical questions which may arise touching the contract with respect to the quality of material, workmanship, removal of improper work, interpretation of the working drawings, specifications, notes, procedures etc.

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II) Special Instructions:

1. If an individual makes the tender, it shall be signed with his full name and his address shall be furnished. If it is made by firm, it shall be signed with the co-partnership name by a member of the firm, who shall also sign his own name, also furnish the name and address of each member of the firm, if the tender is made by corporation, it shall be signed by a duly authorized officer who shall produce with the tender, satisfactory evidence of his authorization. Such tendering corporation / firm is required to furnish evidence of its existence along with bid.

2. The EMD will be refunded to the unsuccessful tenderers on application after rejection of the tender is intimated. The earnest money will be retained in the case of the successful tenderers and either of the cases will not carry any interest. It will be dealt with as provided in the conditions attached to the tender.

3. Whenever a tender is to be accepted, the tenderer, whose tender is under consideration, shall attend the office of “Office Inviting the Tender” on the date fixed by written intimation to him. He shall forthwith, upon intimation being given to him by the “Officer Inviting the Tender” for acceptance of his tender, complete the execution of the agreement by signing all documents connected therewith. Failure to do so and not to commence the work within the time specified in the Letter of Intent shall entail forfeiture of the earnest money.

4. Tenderers shall peruse carefully the instructions and directions to parties tendering and the conditions of the agreement and all other relevant documents before tendering the rates for the work. The approximate quantity of work to be executed under each class is given in the schedule. The quantities are given with a view to enable tenderer to quote his overall rate for each class of work in the tender form and for an uniform comparison of tenderers. It shall be definitely understood that BHEL does not accept any responsibilities for the correctness or completeness of this schedule and that the schedule is liable to alterations by omission deductions, or additions at the discretion of accepting authority.

5. The tenderer shall keep the offer valid for a period of 90 days from the date of opening of tender. It is being understood that the tender documents have been sold / issued to the tenderer and the tenderer is being permitted to tender in consideration of the stipulation on his part that after submitting the tender, he will not recall his offer or modify the terms and conditions thereof in a manner not acceptable to the “Officer Inviting the Tender” Should the tenderer fail to observe or comply with the foregoing stipulation, the EMD shall be forfeited.

6. Tenderers have to quote their rates in the tender schedule legibly written in figures and words and those not submitted in proper form are liable for rejection.

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7.The submission of tender shall be strictly in accordance with the terms and conditions stipulated in this tender notice. No counter conditions will be acceptable or valid.

8.The tenderers must satisfy themselves by personal study and examinations of the drawings / specifications furnished and understand thoroughly the scope of proposed work in detail and all conditions affecting the work before entering into the contract. There shall not be at any time after submission of the tender dispute/ complaint of any nature regarding the scope of work and interpretation of specifications or any misunderstanding with regard to nature or omission of the work to be done nor shall any application for compensation in terms of time and money shall be accepted by BHEL in regard to the above.

9.Contractor shall be deemed to have included in his tender price of all the plant, machinery and appliance required for the purpose of all operations connected with the work embraced under the contract to secure a satisfactory quality of wok and rate of progress which in the opinion of the “Contract Signing Officer” will ensure the completion of the work within the time specified.

10.The contractor has to produce the bank guarantee in the prescribed proforma valid for the contract period for a value calculated at the rates mentioned towards security deposit. The claim period under the guarantee shall be valid for six months after expiry of the contract.

11.This is a time bound contract for period mentioned, and does not envisage any escalation of price.

12.The rates quoted by the contractor shall be firm for the contract period. There shall be no revision in contract rates due to increase in any statutory levies during the period of the contract and this increase shall be absorbed by the contractor himself in full.

13.If any information by documents submitted by the contractor are found false / fake at any stage the tender will be cancelled and earnest money deposited shall be forfeited.

14.In case more than one contractor quotes equal L1 rates further sealed quotation will be obtained from L1 tenderers to decided L1. Under no circumstance revised rate should not be more than the original quoted rate.

15.Measurements shall be taken jointly by any person / persons duly authorized on the part of the BHEL and the contractor.

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16.The contractor shall provide assistance with appliance and other things necessary for measurement without extra charges.

17.If the contractor / his representative fails to attend when required for measurements, the Engineer Incharge shall have power to proceed by him to take measurements and in that case, these measurements shall be accepted by the contractor as final.

18.Measurement shall be recorded in measurement book maintained by the authorized representative of BHEL who shall make entries regarding the work executed by the contractor under different items of bill of quantity; these entries will be counter signed by the contractor or his duly authorized representative.

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GENERAL TERMS & CONDITIONS (part-2)

1. BHEL shall have privacy of the contract with the contractor only and will give instructions to the contractor or his authorized representative. BHEL will have nothing to do or be concerned with the employment of employees working for the contractor. The relationship between BHEL and the contractor will be that of independent entities and nothing herein contained will amount to joint venture, partnership or an employer-employee relationship.
2. The contractor shall maintain regular contact with the designated employee(s) of BHEL and will interact on matters relating to the work awarded under this contract.
3. In case the contractor does not carry out the Contractual / Statutory obligations or the services rendered by him are found to be unsatisfactory, BHEL shall bring the same to his notice and he will be obliged to discharge the obligations and rectify the deficiency / anomaly within three days time failing which, BHEL reserves the right to terminate the contract without assigning any reason whatsoever. In such an event, no damages will be payable for short closure of the contract.
4. The contractor shall deposit an amount as per clause 15a,b,c of tender notice as security with BHEL. This security deposit shall be liable to be returned to the contractor after termination of the contract or at the end of maintenance period subject to deduction on account of company dues, non-deposit of statutory dues etc. No interest shall be payable on the security deposit.
5. The decision of BHEL regarding interpretation of any of terms and conditions set forth in this agreement shall be final and binding on the contractor.
6. Any matter arising out of or in connection with the agreement shall be under jurisdiction of civil Court, Amritsar District, Punjab.
7. Not with standing anything contained in this Agreement, the contract may be terminated by BHEL without assigning any reason there of by giving a notice of 30 days to the contractor.
8. The contract will commence on _____ date and will remain valid for a period of **8 months**. The parties reserve the right to extend the contract on mutually agreed terms and conditions.
9. All disputes arising in connection with the contract shall be settled by mutual consultation. If no agreement is reached the dispute shall be settled in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and the rules made there under. The dispute shall be referred for arbitration to any arbitrator to be appointed by the Head of the Unit. The award of the arbitrator shall be final and binding on both the Parties. The venue of the Arbitration shall be Goindwal, Punjab in India. The Award to be given by the Arbitration shall be a speaking award. All questions, disputes, differences arising under, out of or in connection with this contract shall be to the exclusive jurisdiction of civil Court, Amritsar District, Punjab.

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1. SAFETY MEASURES:

- i. A list containing the name of persons who are working, their age, designations, pay, nature of work is to be furnished immediately on receipt of work order, in triplicate.
- ii. The work should be carried out in the presence of contractor's Supervisor and prior permission should be obtained from the concerned supervisor (BHEL) and the section before starting the work.
- iii. In case of cable laying work, should be carried out after getting the prior permission from the concerned electrical supervisor and civil department for digging the road when it is required to ensure that proper precautions are taken.
- iv. While digging the road, a good barricade and proper signboards should be provided in the area.
- v. While erecting the poles, proper safety precautions such as supporting the poles, tying with ropes suitable lifting tackles etc. are to be adhered.
- vi. While working at heights, proper platform ladder, safety belts, helmet etc. should be used.
- vii. The necessary safety equipments such as gloves, lineman's belts etc. should be used.
- viii. Any other safety measure as necessitated by the nature of work should be strictly followed
- ix. If Contractor's workmen are found to violate the safety regulations punitive action will be taken by with-holding a sum of Rs.100/- to Rest. 500/- for each such violation.
- x. These safety measures shall be deemed to form an integral part of the work order/agreement.

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SPECIAL INSTRUCTIONS

1. Small consumables like screws, clamps, PVC, L, T coupling, bend, elbow bolt nuts are the scope of the contractor.
2. If any other materials required other than BHEL supply specified in the schedule is meant to contractor's scope of supply.
3. Issue of materials from stores is subject to the availability. The contractor shall not be entitled to any claim or compensation for non-supply or delay in supply from stores under any circumstances.
4. Entire work should be completed within the stipulated period.
5. Cable glands, electrical power boards, switches, boxes are to be properly earthed.
6. Order for all items will be placed on a single contractor only.
7. Before quoting this tender the contractor can visit the area and make study.
8. Safety precautions to be arranged by the contractor depending on the work nature.

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NORMS FOR QUALIFICATION
(VALUE OF WORK: Rs. 4.5 LakhS)

I	ELIGIBILITY:-		
	<p>1. Separate Registration for EPF & ESI.</p> <p>2. Average annual turnover in the last 3 years shall be at least 30% value of the respective work. (Rs.1.35L)</p> <p>3. Three similar works not less than 40% value of the respective work.(Rs.1.8L)</p> <p style="text-align: center;">or</p> <p>Two similar works not less than 50% value of the respective work. (Rs.2.25L)</p> <p style="text-align: center;">or</p> <p>One similar work not less than 80% value of the respective work.(Rs.3.6L)</p> <p>4. Solvency shall be produced for at least 40% value of the respective work. (Rs.1.8L)</p> <p>5. Contractor should have a valid Electrical ES A / ES B grade license from State Electrical Licensing Board.</p>		
II	NATURE OF COMPANY	5	
	Public Limited	5	
	Private Limited/Partnership firm	3	
	Sole Proprietor	2	
III	Similar Experience (electrical works)	30	
	Total value of electrical works executed in the last three years		
	More than	30	(Rs. 4.5L)
	(Pro-rata for in between cases)	18	(Rs. 2.25L)
IV	Performance on previous works	10	
	Successful completion of three major works in time.	10	(Rs.1.8L)
	Successful completion of two major works in time.	8	
	Successful completion of one major work in time.	6	
V	Highest value of single work completed	10	

	More than	10	(Rs.3.6L)
	(Pro-rata for in between cases)	6	(Rs.1.8L)
VI	Average Annual Turnover in last 3 years	10	
	More than	10	(Rs.2.7L)
	(Pro-rata for in between cases)	6	(Rs.1.35L)
VII	Equipments owned	10	
	Welding & erection equipments, crane, crimping tools, Megger and other necessary tools	10	
	Welding & crimping and megger without crane	8	
	Welding & crimping and megger equipments only available.	6	
	Crimping & megger only available.	4	
VIII	Qualified staff availability	5	
	If adequate Graduate Engineers, Supervisors & Electricians available.	5	
	If adequate Graduate Engineers & Supervisors available.	4	
	If adequate Graduate Engineers & Electricians only available.	3	
	If adequate Supervisors & Electricians only available.	2	
IX	Financial stability	10	
	Solvency		
	More than	10	(Rs.3.6L)
	(Pro-rata for in between cases)	6	(Rs.1.8L)
X	PAN & ITCC for the past three years.	10	

NOTE:

- 1. Minimum score required for qualification is 60 out of 100.**
- 2. All the above financial value excludes cost of materials.**

PRICE BID

SCHEDULE-A

SCHEDULE OF WORK FOR “Electrification of BAYS ,Storage yards etc.

SL NO	DESCRIPTION OF WORK	UNIT	QTY	UNIT RATE	AMOUNT RUPEES
1	Erection and commissioning of Medium Voltage, floor mounting, free standing, indoor, Industrial type switchboard comprising of fuse switches and bus bar chamber, on the trench with necessary support channel, earthing etc. Medium Voltage Industrial type switches Board (MP) of the following configuration: Incomer switch of 800A rating: 1 no. Bus bar Rating: 800A Outgoing Switches: 400A (cast iron) rating: 1 nos. 200A (cast iron) rating: 6 nos. 100A (cast iron) rating: 6 nos. Note: 1) The Medium Voltage industrial type switchboard (M.P.Board) completes with cable adopter box will be supplied by BHEL free of cost at site. 2) Necessary support channels with required fasteners and other materials required for carrying out the work to be supplied by the contractor.	nos	1		
2	Erection and commissioning of Medium Voltage, floor mounting, free standing, indoor, Industrial type switchboard comprising of fuse switches and bus bar chamber, on the trench with necessary support channel, earthing etc. Medium Voltage Industrial type switches Board (MP) of the following configuration: Incomer switch of 800A rating: 1 no. Bus bar Rating: 800A Outgoing Switches: 400A (cast iron) rating: 2nos. 200A (cast iron) rating: 4 nos. 100A (cast iron) rating: 4 nos. Note: 1) The Medium Voltage industrial type switchboard (M.P.Board) completes with cable adopter box will be supplied by BHEL free of cost at site. 2) Necessary support channels with required fasteners And other materials required for carrying out the work to be supplied by the contractor.	nos	1		

3	<p>Assembly, fixing and testing of 8 ways 63 A TPN Fuse distribution Boards with 200A 3 poles isolator as incomer. Each FDB to be fixed on the wall/ column/ trench with suitable iron framework. Necessary cable adopter box both incoming & outgoing, support channels with required fasteners are to be supplied by the contractor. Necessary interconnection between the isolator and the FDB with multi-strand copper cable and proper earthing are to be done by the contractor.</p> <p>Notes: 1)Only isolators and FDB will be supplied BHEL free Of cost at stores. 2) All the other materials required for carrying out the work will be in the scope of the contractor.</p>	nos	3		
4	<p>Assembly, fixing and testing of 8 ways 16 A TPN MCB lighting Distribution with 100A 4 pole MCB as incomer and 24 nos. SP MCB as out goings. Each phase to be controlled with 63A DP ELCB. The MCB DB (DL) should be provided with necessary iron frame work on the wall / column. Necessary cable adopter box both incoming & outgoing, support channels with required fasteners are to be supplied by the contractor.</p> <p>Note: 1)The MCB DB (DL) will be supplied by BHEL free Of cost at stores. 2) All the other materials required for carrying out the work will be in the scope of the contractor.</p>	nos	3		
5	<p>Fixing of 3 Phase 415 volts TP/ TPN 400/200/100/63 amps isolator/switch fuse with suitable iron frame work on the shop floor / column / wall as specified and quantified below. Necessary cable adopter box both incoming & outgoing, support channels/angles with required fasteners for carrying out the work will be in the scope of the contractor.</p> <p>A)Fixing of 3 Phase 415 volts TP/ TPN 400A isolator/ switch fuse.</p> <p>B)Fixing of 3 Phase 415 volts TP/ TPN 200A isolator/ switch fuse.</p> <p>C)Fixing of 3 Phase 415 volts TP/ TPN 100A isolator/ switch fuse.</p> <p>D)Fixing of 3 Phase 415 volts TP/ TPN 63A isolator/ switch fuse.</p> <p>Note:</p>	nos	2		
		nos	9		
		nos	5		
		nos	5		

	<p>1 The 400/200/100/63A isolator/switch fuse will be supplied by BHEL free of cost at stores.</p> <p>2) All the other materials required for carrying out the work will be in the scope of the contractor.</p>				
6	<p>Fixing of 630 mm sweep column mounted 3-phase man cooler fans in the steel framework on the column/wall / shop floor with necessary iron framework with earth connection and connecting the available power supply.</p> <p>Note:</p> <p>1) The man coolers will be issued by BHEL free of cost at stores.</p> <p>2) Necessary support channels/angles with required fasteners for carrying out the work will be in the scope of the contractor.</p> <p>3) All the other materials required for carrying out the work will be in the scope of the contractor.</p>	nos	18		
7	<p>Fixing of 3 Phase Direct on line Starter in sheet steel enclosure Suitable for starting 3 Phase, 415V, 50Hz, 0.75/1.0 HP induction motor as man cooler fans.</p> <p>Note: -</p> <p>1) The DOL starter will be issued by BHEL free of cost at stores.</p> <p>2) Necessary support channels/angles/ with required fasteners for carrying out the work will be in the scope of the contractor.</p> <p>3) All the other materials required for carrying out the work will be in the scope of the contractor.</p>	nos	18		
8	<p>Assembly, fixing and testing of 250W, metal Halide High bay Industrial light fitting with lamp & lid on the truss with supply of necessary clamp, down rod and safety chain.Safety chain shall be GI of 4 mm dia. and required length with 'D' Shackle at one end for connecting to the fitting hook and other end to be connected to the nearby truss member. The down rod shall be of 10 mm dia. safety chain and length shall vary depending upon the fitting location as furnished below.</p> <p>Down rod length details.</p> <p>1) 500mm length -- 48 Nos.</p> <p>2) 1700mm length -- 22 Nos.</p> <p>Note:</p> <p>1) Only 250 W Metal Halide fittings and Lamps will be supplied by BHEL free of cost at stores.</p> <p>2) Clamp and down rod shall be painted with one coat</p>	nos	70		

	of red oxide and two coats of Aluminium paint. 3) Necessary clamp, down rod, safety chain, paint shall be supplied by the contractor.				
9	<p>Laying of 3.5 core 185/95/50/10/4 sqmm PVC AA cable as specified and quantified below from Substation to switch board (MP board), FDBs and isolators on the cable racks available in the cable trench with proper clamping. After laying the cable the cable trenches should be closed with concrete slabs/MS plate and make it neat & clean.</p> <p>1) Laying of 3.5 core 185 sqmm PVC AA cable. The cable quantity indicated to be laid in the following manner.</p> <p>a) 4 runs over a route length of 160m involving 640m of cable.</p> <p>b) 2 runs over a route length of 120m involving 240m of cable.</p> <p>c) 1 run over a route length of 620m involving 620m of cable.</p> <p>2) Laying of single run of 3.5 core 95 sqmm PVC AA cable over a length of 500m.</p> <p>3) Laying of single run of 3.5 core 50 sqmm PVC AA cable over a length of 200m.</p> <p>4) Laying of single run of 3.5 core 10 sqmm PVC AA cable over a length of 200m.</p> <p>5) Laying of single run of 3.5 core 4 sqmm PVC AA cable over a length of 1000mts</p> <p>Note:</p> <p>1) The Medium voltage 3.5-core 185/95/50/10/4 sqmm PVC AA cable will be supplied by BHEL free of cost at stores.</p> <p>2) All the other materials required for carrying out the work will be in the scope of the contractor.</p>	<p>meters 640</p> <p>meters 240</p> <p>meters 620</p> <p>meters 500</p> <p>meters 200</p> <p>meters 200</p> <p>meters 1000</p>			
10	<p>Making end termination of Medium voltage 3.5 core 185/95/50/10/4 sq mm PVCAA cable with suitable brass cable glands, copper lugs, gland earthing, cable clamping etc.</p> <p>1) Making end termination of Medium voltage single run 3.5 core 185 sq mm PVCAA cable.</p> <p>2) Making end termination of Medium voltage single run 3.5 core 95 sq mm PVCAA cable.</p> <p>3) Making end termination of Medium voltage single run 3.5 core 50 sq mm PVCAA cable.</p> <p>4) Making end termination of Medium voltage single run 3.5 core 10 sq mm PVCAA cable.</p>	<p>nos 42</p> <p>nos 10</p> <p>nos 4</p>			

	<p>5) Making end termination of Medium voltage single run 3.5 core 4 sq mm PVCAA cable.</p> <p>Note: -</p> <p>1) Supply of brass cable glands, copper lugs, gland earthing, cable clamping and PVC insulation tape etc. are contractor's scope.</p> <p>2) Crimping tools and other materials required for carrying out the work will be in the scope of the contractor</p>	nos	10		
		nos	36		
11	<p>1.Wiring with 2 runs of 2.5sqmm stranded copper conductor unsheathed cable in the medium quality, 1.5mm thick, and 20mm dia. PVC conduit pipe with continuous running of 14 SWG copper wire as earthing on the steel structural members of the roof with suitable clamping.</p> <p>2. Wiring with 2 runs of 1.5sqmm stranded copper conductor unsheathed cable in the medium quality, 1.5mm thick, and 20mm dia. PVC conduit pipe with continuous running of 14 SWG copper wire as earthing on the steel structural members of the roof with suitable clamping</p> <p>NOTE:</p> <p>1) and 2.5/1.5sqmm stranded copper wires and 14 SWG copper wire will be supplied by BHEL by free of cost at stores.</p> <p>2) One running meter of wiring consists of 1m PVC conduit, 1m-earth wire and 2 runs of 1m copper wires with suitable clamps.</p> <p>3)Required PVC conduit pipes ,Conduit clamping and Fasteners are contractor's scope.</p>	meters	2500		
		meters	1250		
12	<p>1)Laying and fixing of 50x6mm G.I.flat for earthing in the cable trench by welding on the insert plate already opened/ excavated trench or on the wall/ switchboard.</p> <p>2)Supply, laying and fixing of 25x3mm G.I.flat for earthing of MP, ML boards to the trench earth.</p> <p>3)Laying and fixing of 14 SWG copper or 7/20 G.I. Wire for earthing of switch fuse / isolators in the already opened or excavated trench or on the wall / switchboard.</p> <p>4)Fixing of 50X6mm GI flat of 1mtr.length across the column and to be drilled with 16 nos. of 8mm dia.holes. for earth connection.</p> <p>Note:</p> <p>1) 25x3mm G.I.flat will be supplied by contractor.</p> <p>2)Necessary materials required for carrying out the</p>	Meter	350		
		Meter	50		
		Meter	50		
		NOS	20		

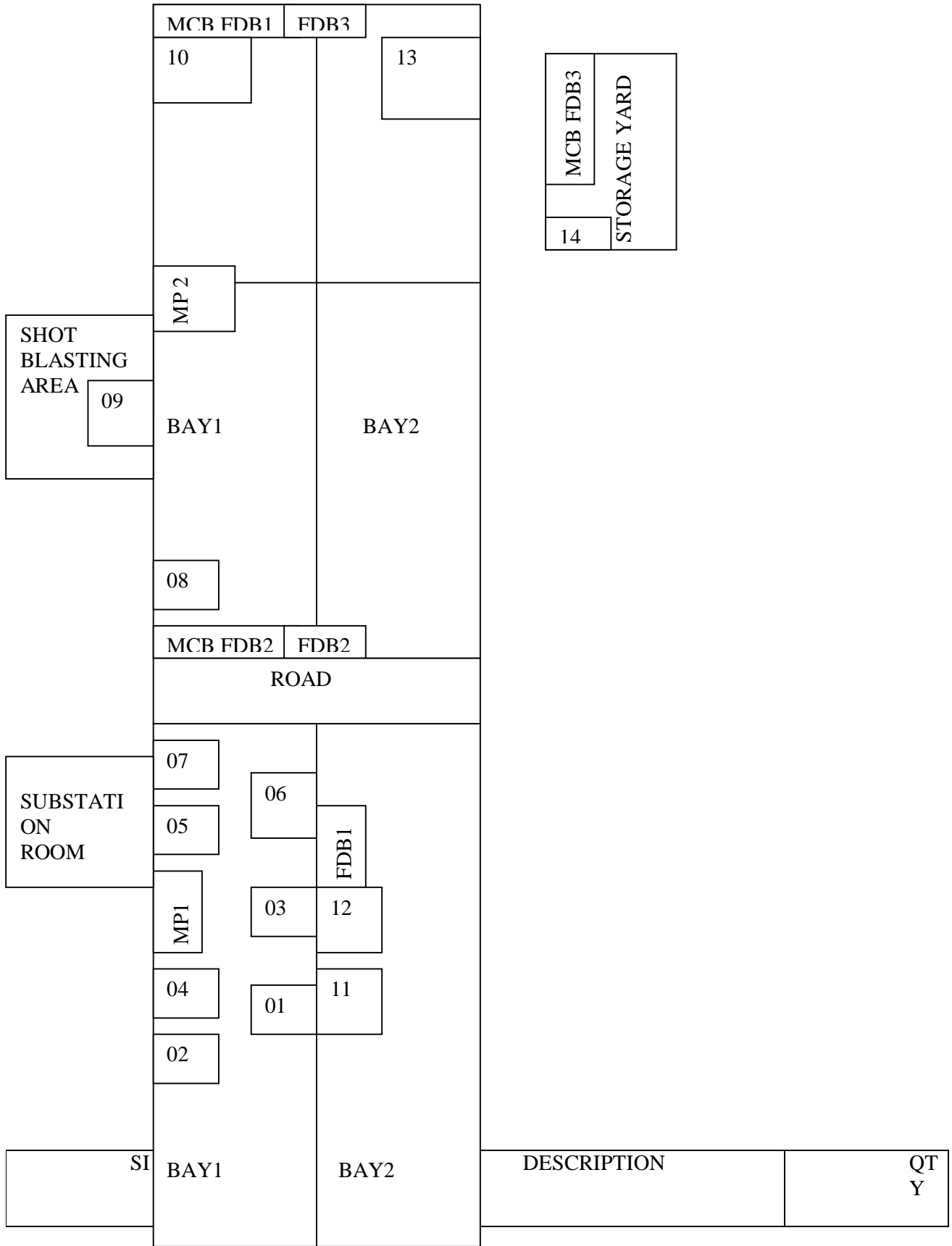
	work will be in the scope of the contractor.				
13	Excavation of earth and supply and installation of earth electrode as per drawing/sketch enclosed will be of 50mm dia. G.I pipe, class C having wall thickness of 4.5mm and length 3600mm. Filling of coak, salt and charcoal around the electrode, construction of masonry chamber, cover etc. are to be carried out as indicated in the drawing. Earth resistance to be measured and to be painted on the inside wall along with earth electrode number and date.	nos	6		
14	Assembly and fixing of 250Watts FLOOD light with lamp on the wall or column with. 1) Flood light with lamp will be supplied by BHEL free of cost at stores. 2) Necessary clamps will be supplied by contractor.	nos	10		
15	Fixing of 2x28 watts box type fluorescent light fitting with lamps on the wall or column. Note: 1) 2x28 watts box type fluorescent light fitting with lamps will be supplied by BHEL free of cost at stores. 2) Necessary clamps will be supplied by contractor.	nos	10		
16	Excavation of earth to a depth of 0.8m and width of 0.4m. After laying cable sand will be filled upto a depth of 100mm and providing bricks continuously crosswise in the excavated trench and closing the trench with already excavated soil and make it good Note: Sand and bricks are the scope of contractor	meter	10		

Total AMOUNT Rs:

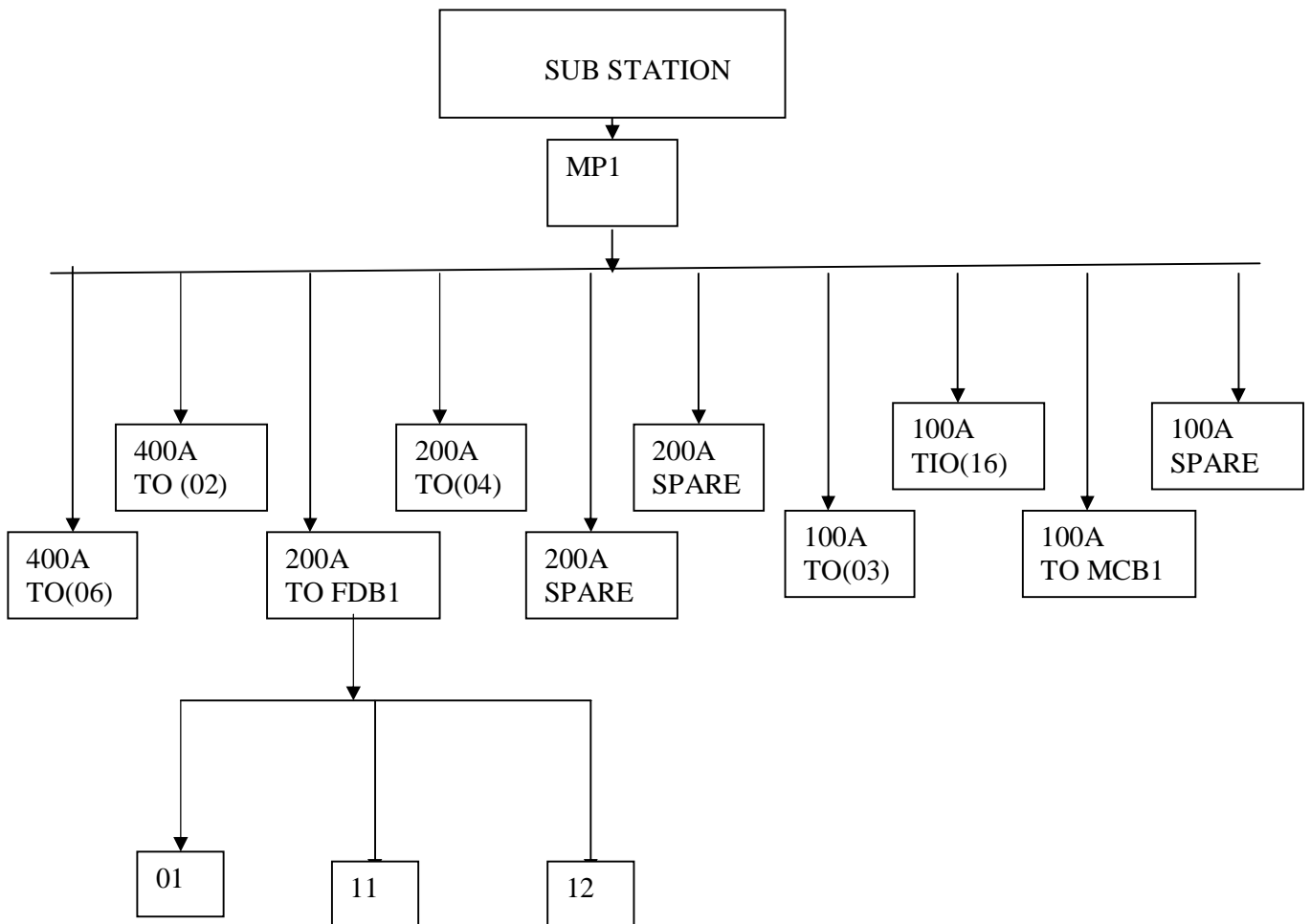
Total amount in words Rupees :

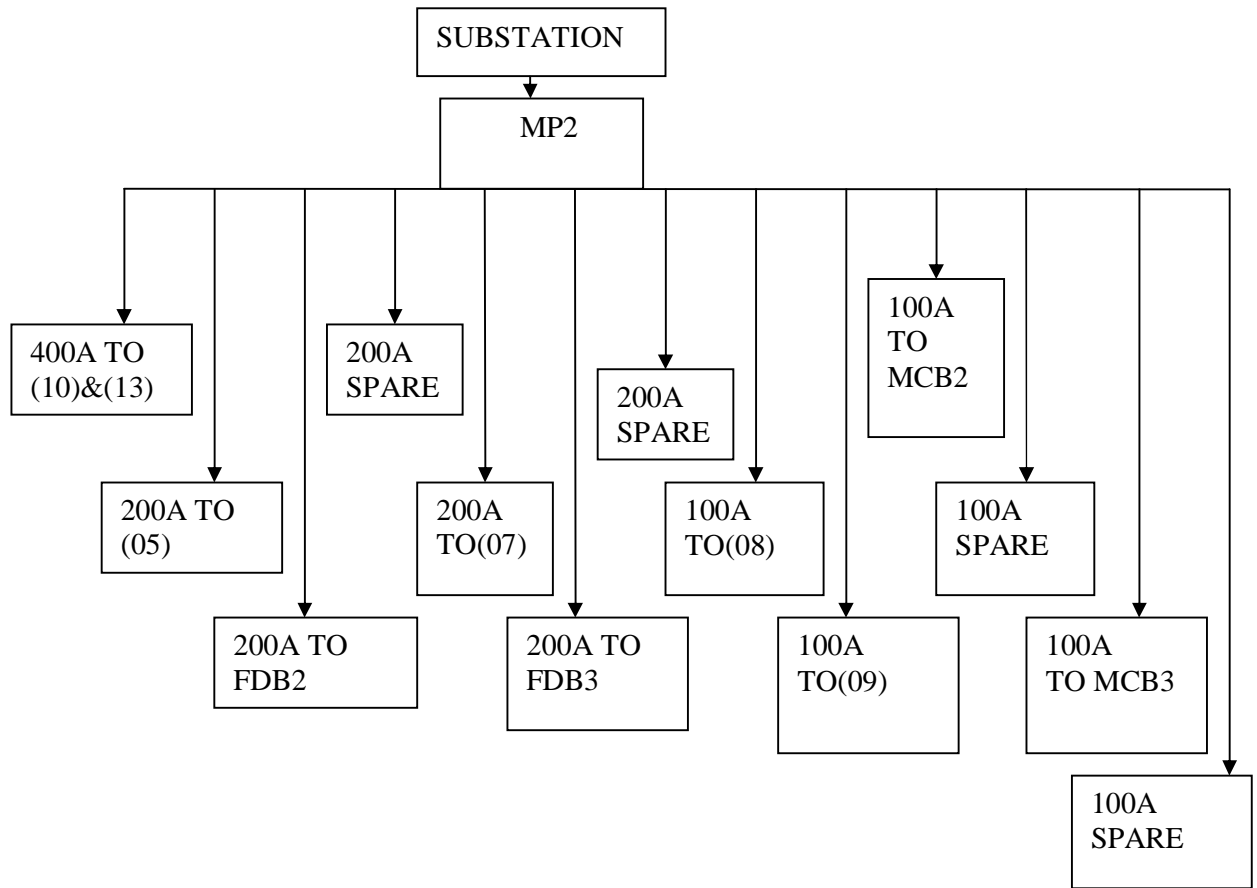
Signature of Tenderer

LAY OUT FOR ELECTRIFICATION WORK



1	1	RADIAL DRILLING M/C	1
2	1	CNC VER. TUR. LATHE	1
3	1	CONV.HOR.BORER	1
4	1	CNC HOR.BORER	1
5	1	VRS GRINDER	1
6	1	FURNANCE-2T	1
7	1	PTA	1
8	1	SAW M/C	1
9	1	SHOT BLASTING M/C	1
10	1	EOT CRANE-5T	1
11	2	PILLAR TYPE JIB CRANE	3
12	2	HYD TEST STATIONS	3
13	2	EOT CRANE-5T	1
14	Y	GANTRY CRANE-5T	1





IS : 3043 - 1987

EARTHING

10.04.2008.

