



**BHARAT HEAVY ELECTRICALS LIMITED  
CENTRALISED STAMPING UNIT  
Jagdishpur**

**Tender for Supply and Installation for plant road and  
boundary wall lighting at Jagdishpur**

**Tender Enquiry No: BHE/CSU/CVL/11**

**SECTION III**

**SPECIAL CONDITIONS OF CONTRACT**

**BHARAT HEAVY ELECTRICALS LIMITED  
(A GOVERNMENT OF INDIA UNDERTAKING)  
CENTRALISED STAMPING UNIT  
Industrial Area  
Jagdishpur (UP) 227817**

**SECTION-III****SPECIAL CONDITIONS OF CONTRACTS****1. INTRODUCTION**

- 1.1. The terms and conditions mentioned in this section are in addition to what are stated in Section – II (General Conditions of Contract) of the tender document. In case of any contradiction between the terms and conditions given in Section - II and those specified in this Section- III, the terms and conditions of this Section–III shall prevail.

**2. SITE LOCATION**

- 2.1. Bharat Heavy Electricals Ltd. is setting up a manufacturing plant at Jagdishpur; district Sultanpur UP, for production of electrical machine components. New facility will be located adjacent to the existing Insulator Plant of BHEL. The site area is about 31.6 Acre. The site location is about 80 KM south east of Lucknow on Lucknow Varanasi highway and approx 55 KM from Sultanpur and 210 Km from Varanasi. The nearest Airport is at Lucknow.

**3. SCOPE OF WORK**

- 3.1. The scope of work will broadly cover electrification and lighting of the following facilities:
- Plant Road
  - Boundary wall
  - Main Gate
  - Any other building/ facilities within the plant area
- 3.2. The bidder's scope shall broadly include all electrical works related to plant road and boundary wall lighting which includes concealed/ exposed conduiting in slab, wall and floor racers , cable tray erection , dressing of cables and it's termination & testing , wiring for lights, erection of switchboards of various capacities etc.; as well as supply of all materials, consumables, labour, tools and plants, transportation and storage, sample testing etc.; all complete as per BOQ, specifications and drawings. In addition to above the bidder's scope shall also cover submission of drawings/designs details/ brochures / technical write ups / manufacturer's test certificates and field test results etc, as applicable, along with source of supplies for the bought out items pertaining to his scope of supplies and execution .
- 3.3. CONSUMABLES
- 3.3.1 The contractor shall provide within finally accepted rates, all consumables like, gland packing, all welding electrodes (including alloy steel, Aluminium, stainless steel), Aluminium filler wires , tig wires , all inert / welding gases, soldering material, dye penetrants, other erection consumables such as tapes, jointing compound , grease, mobile oil, M-seal, Araldite , Parmali wood, petrol , CTC / other cleaning agents, petroleum jelly, insulation tape, PVC sealing compound,

sleeves , cable ties , gaskets and shims , wooden, sleepers, steel required for temporary works such as supports, packing hardware items, sealing compound required for completion of work except those which are specifically supplied by manufacturing unit.

- 3.3.2 It shall be the responsibility of the contractor to plan the activities and store sufficient quantity of consumables. Non availability of any consumable materials or equivalent suggested by BHEL cannot be considered as reason for not attaining the required progress or for additional claim.
- 3.3.3 It shall be the responsibility of the contractor to obtain prior approval of BHEL, regarding suppliers, type of electrodes etc. before procurement of welding electrodes / TIG wires. On receipt of electrodes at site these shall be subjected to inspection and approval by BHEL. The contractor shall inform BHEL details regarding type of electrodes, batch No. date of expiry etc. and produce test certificate for each lot / batch with correlation of batch / lot no. with respective test certificate. No electrode will be allowed to be used without valid test certificate.
- 3.3.4 BHEL reserves the right to reject the use of any consumable including electrodes, gases, lubricants / special consumables if it is not found to be of the required standard / make / purity or when shelf life has expired. Contractor shall ensure display of shelf life on consumable wherever required & records maintained.
- 3.3.5 Storage of all consumables including welding electrodes shall be done as per requirement / instruction of the Engineer by the contractor at his cost.
- 3.3.6 In case of improper arrangement for procurement of any consumable, BHEL reserves the right to procure the same from any source and recover the cost from the Contractor's first subsequent bill at market value plus the departmental charges of BHEL from time to time (30% at present). Postponement of such recovery is normally not permitted. The decision of Engineer in this regard shall be final and binding on the contractor.
- 3.3.7 All lubricants and chemicals required for testing, pre-commissioning, commissioning, preservation and lubricants for trial runs of the equipment shall be supplied by contractor. All services including labour and T&Ps will also be provided by the contractor for handling, filling, emptying, refilling etc.
- 3.3.8 All charges on account of Octroi, terminal or sales tax and other duties on materials obtained for the works from any source shall be borne by the contractor.

#### **3.4. FOUNDATIONS AND GROUTING FOR LIGHTING POLES**

- 3.4.1 The dimensions and locations of the foundations, pockets, and anchor bolt pitch shall be checked by the contractor for their correctness as per drawings. Further, top elevation of foundations shall be checked with respect to bench mark etc. All minor adjustments of foundation level, dressing and chipping of foundation surfaces upto 50mm, enlarging the pockets in foundations etc.,

increasing the existing floor opening for cable entry, fixing panels and repair of same as may be required for the erection of equipment / plants shall be carried out by the contractor.

- 3.4.2 While on the job, care is essential to avoid too much chipping and resultant lowering of level. In case of excess chipping, contractor is to arrange additional packing plates as per requirements provided it is allowed by BHEL Engineer.
- 3.4.3 The contractor shall ensure perfect matching of structure / equipment, packer plates including machining, scraping and blue matching with foundation by dressing the foundation. BHEL at its discretion can accept rough chipping of foundations, embedding packer plates in cement mortar.
- 3.4.4 Entire grouting work of foundation bolt holes of structure/equipment including complete encasing of equipment bases using port land cement will be carried out by the contractor. Contractor for subject work has to offer neat & clean foundations to the Civil Contractor to ensure perfect grouting.
- 3.4.5 Besides grouting as above, any civil works required for safe and efficient operation of tools and tackles like grouting / excavation / casting of foundation / anchor points for derricks, winches, guy ropes fastening, etc. any other temporary supports shall also be the contractor's responsibility. For these civil works all materials including cement and required facilities will have to be arranged by contractor at his own cost.
- 3.4.6 Foundation for plant road lighting poles shall be in the scope of electrical contractor and shall be carried out as per standard civil works specifications
- 3.5. Following shall be the responsibility of contractor and have to be provided within finally accepted rates / prices :
- (a) Provision of all types of labour, supervisors, Engineers, watch and ward as required, tools & tackles, calibrated inspection, measuring and test equipment as specified and otherwise required for the work and consumable for erection, testing and commissioning including material handling.
  - (b) Proper out-turn as per BHEL plan and commitment.
  - (c) Completion of work as per BHEL Schedule
  - (d) Good quality and accurate workmanship for proper performances of equipment
  - (e) Repair,rectification and modification in electrical circuits/wiring involving removal of connections & redoing as per modification.
  - (f) Preservation / Reconservation of all components during storage / erection till handing over
- 3.6. The specific technical requirements for work to be executed under this Contract shall be as per Section V. **The applicability of specifications shall be limited to the scope of works as per tender as specified in the BOQ.** Mechanical /Civil items indicated are for general information only.
- 3.7. The scope of work will also include such other related works although they may not be specifically mentioned above and all such incidental items not specified but reasonably implied and necessary for completion of the job as a whole and as

desired and as directed by the engineer. The detail scope of work covered above is not a comprehensive list of items of work involved. The detail scope of work may vary considerably depending on the actual construction requirements.

- 3.8. Unless otherwise specified, the work to be provided by the contractor for the items mentioned in the "Bill of Quantities" shall include but not be limited to the following.
- a) Furnishing all labour, materials, supervision, construction plans, equipment, supplies, transport, to and from the site, fuel, electricity, compressed air, water, transit and storage insurance and all other incidental items and temporary works not shown or specified but reasonably implied or necessary for the proper completion, maintenance and handling over the works, except in accordance with the stipulations laid down in the contract documents and additional stipulations as may be provide by the engineer during the course of works.
  - b) Furnishing samples of all materials required by the engineers for testing / inspection and approval for use in the works. The engineer for final incorporation in the works may retain the samples.
  - c) Furnishing test reports for the products used or intended to be used, if called for the specifications or if so desired by the engineer.
  - d) Giving all notices, paying all fees, taxes etc., in accordance with the general conditions of contract, that is required for all works including temporary works.
  - e) Arranging manufacturer's supervision for items of work done as per manufacturer's specifications when so specified.
  - f) Carrying out topographic survey of required area and establish levels and coordinates at suitable intervals from existing grid levels and coordinates furnished by the owner established bench marks, setting out the locations and levels of proposed structures, constructions and marking of reference pillars and other identification works etc., The contractor shall provide BHEL such a assistance, instruments, machines, labour and materials as are normally required for examining, measuring and testing any work and the quality, weight or quantity of any material used.
  - g) Providing all incidental items not shown or specified but reasonably implied or necessary for the successful completion of the work in accordance with contract.
  - h) Make necessary storage arrangement / sheds of adequate capacity to store cement within his normal scope without any extra cost to BHEL.
  - i) Arrange necessary T & P and IMTEs for carrying out the work. A list of such T & P and IMTEs required for such work as a minimum is given in **Annexure SCC-I and SCC-II.**
- 3.9. BHEL is ISO 9001-2000, ISO 14001-1996 and OHSAS 18001-1999 certified company. The contractor in all respects shall organize his work, systems,

environment, process control documentation, tools, plant, inspection, measuring and testing equipments etc. as per instructions of Engineer.

- 3.10. The contractor shall also comply with applicable legislation and regulations with regards to Health, safety and environmental aspects for minimizing risk arising from occupational health, safety hazards, controlling pollution and wastage.
- 3.11. BHEL and their Consultant may depute their representative for checking and supervision of important stages of work. The contractor shall be required to provide all facilities for inspection of works at no extra cost to BHEL. Any defect in quality of work or deviations from drawings / specifications pointed out during such inspection shall be made good by the contractor in the same way as if pointed out by the BHEL Engineer, without any cost implication to BHEL.
- 3.12. Persons so deployed shall have to work in extended hours whenever required. Workmen provided as per the above provisions shall be fully trained and experienced in the nature of work for which they are deployed. In case of requirement they may be redeployed as per requirements by the engineer.

#### 4. TIME SCHEDULE

- 4.1. The contractor is required to commence the work within 15 days from the date of issue of letter of intent unless BHEL decides to fix any other later date.
- 4.2. Entire work as detailed in tender specification shall be completed within **4 months** the date of start of work shall be taken as given in Letter of Intent (LOI).
- 4.3. The start date for the above works shall be as directed by BHEL from time to time. The Contractor shall ensure that the above major works are completed in time.
- 4.4. Contractor has to mobilise adequate resources to meet his commitments to BHEL as indicated from time to time. **In case due to reasons not attributable to the contractor, the work gets delayed and additional manpower / resources have to be mobilized so as to expedite the work to meet various milestones, same shall be done within the quoted rates as per Rate Schedule, at no extra cost to BHEL.** In the event the contractor fails to respond to these requirements, BHEL shall take appropriate actions to meet it's commitments in line with the provisions of General Conditions of Contract.
- 4.5. In case due to reasons not attributable to the contractor, the work gets delayed and scheduled completion gets extended, time extension will be granted by BHEL but in no case over run compensation will be payable.
- 4.6. The work under the scope of this contract is deemed to be completed in all respects, only when all the works are carried out as per satisfaction of BHEL. The decision of BHEL on completion date shall be final and binding on the contractor.

#### 5. TAKING OVER OF WORKS BY BHEL

- 5.1. All works shall be taken over by BHEL in part or in full when it has been completed in all respects and/or can be put to use satisfactorily. The complete work under the contract shall be taken over only after completion of all punch

points, pending work, rework wherever required, site clearing and reconciliation of materials.

- 5.2. The guarantee period shall start only after the complete work under the contract has been taken over by BHEL.

## 6. PRICE

- 6.1. Price quoted shall be fixed and not subject to any escalation whatsoever during the period of execution of the Contract including the extended period, if any.
- 6.2. The quoted price shall include all taxes and duties on input materials and all taxes on Contract execution including Works Contract Tax.
- 6.3. All Taxes and Duties payable as extra to the quoted price should be specifically stated in the offer. BHEL will not be liable for payment of Taxes and Duties not specifically mentioned in the offer.
- 6.4. **No price variation /over run charges** on account of any increase whatsoever, (irrespective of whether escalation is steep/ unanticipated) will be payable during the entire period of execution of Contract including extended period, if any.

## 7. SALES TAX / WORKS CONTRACT TAX

- 7.1. Sales tax on transfer of property in goods involved in works contract is applicable as per laws in force in U.P. state .The contractor shall register him self with the sales tax authorities of the state and submit proof of such registration to BHEL along with the first RA bill. Deduction of tax at source shall be made as per the provisions of law. The TDS shall be deducted from the bills of the contractor and deposited with the UP trade tax authorities. Present rate of TDS on this account is 4 % (Four percent). If UP Trade tax authorities allows compounding scheme then the tax at source shall be deducted accordingly.
- 7.2. Contractor shall get his organization registered with concerned sales tax authorities within 30 days of award of this contract. The delay on this account and delay in bringing the material shall be to contractor's account and no extension of time shall be allowed on this account. The sales tax registration for this contract shall be forwarded to BHEL. In case the contractor is already registered for sales tax with Govt. Authorities he must quote his registration no., while submitting their tender.
- 7.3. Contractor has to make his own arrangement at his cost for completing the formalities, if required, with Sales Tax Authorities, for bringing their materials, plants, and equipment at site for the execution of the work under this contract.

## 8. SERVICE TAX

- 8.1. Service Tax and cess on service tax as applicable on output services is not applicable for this Contract and is excluded from contractor's scope; therefore contractor's price/ rates shall be exclusive of service tax and cess on output services. In case, it becomes mandatory for the contractor under provisions of relevant act/law to collect the service tax and cess from BHEL and deposit the

same with the concerned tax authorities, such applicable amount will be paid by BHEL. Contractor shall submit to BHEL documentary evidence of service tax registration and remittance records of such tax immediately after depositing the tax with the concerned authorities. Contractor shall obtain prior written consent from BHEL before billing the amount towards such taxes.

## **9. INCOME TAX**

- 9.1. Income Tax at the prevailing rate on gross value of work done and applicable surcharge and education cess shall be deducted from the running bills as per relevant rules unless exempted by the Income Tax Authorities.

## **10. NEW TAXES/ LEVIES**

- 10.1. In case the Government imposes any new tax/ levy on the output services/ goods / work after the award of work, the same shall be reimbursed by BHEL at actuals. All necessary documents as required by BHEL shall have to be provided by the contractor. However, in the event of delay in work execution solely attributable to the contractor the new taxes/ levies imposed during the delay period shall not be reimbursed to the contractor.
- 10.2. In case any tax/levy/duty etc becomes applicable after the date of bidder's offer, the bidder/ Contractor must convey it's impact on his price duly substantiated by documentary evidence in support of the same before opening of the Price Bid. Claim for any such impact after opening the price bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
- 10.3. No reimbursement on account of increase/ decrease in the rate of taxes, levies, duties etc on input goods/ services/ work shall be made. Bidder has to make his own assessment of the impact of future variation if any, in rates/ duties/ levies etc in his price bid.

## **11. MODELITIES OF TAX INCIDENCE ON BHEL**

- 11.1. Wherever the relevant tax laws permit more than one option or methodology for discharging the liability of tax/levy/duty, BHEL will have the right to adopt the appropriate one considering the amount of tax liability on BHEL as well as procedural simplicity with regard to assessment of the liability. The option chosen by BHEL shall be binding on the contractor for discharging the obligation of BHEL in respect of the tax liability to the contractor.
- 11.2. The contractor shall pay all (save the specific exclusions as enumerated in this contract) taxes, fees, misc. charges, deposits, duties, tools, royalties, commissions or other charges which may be levied on the input goods and services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

## **12. RATE SCHEDULE CUM BOQ**

- 12.1. Contractor shall fully understand description and scope of work before quoting. The scope of work and responsibility of the contractor as mentioned under this specification shall be covered within the quoted / finally accepted rates.

- 12.2. The Tenderer shall quote the prices/rates for entire scope of work as per the rate schedule only, in part II - price bid. Conditional price bids or price bids with any deviation / clarification etc. are liable to be rejected. No cutting / erasing / over writing shall be done.
- 12.3. Quantities mentioned in the rate schedules are approximate only and liable for variation both on positive and negative sides. The tentative contract value (CV) for entire scope of work shall be calculated as per finally quoted / accepted item rates & the quantities indicated in Rate Schedule cum BOQ.
- 12.4. In addition to the above, the Contractor shall also submit the rates as asked for in the **Annexure: SCC-III**.

### **13. EVALUATION OF THE OFFERS**

- 13.1. Comparison of the prices & determination of lowest bidder shall be as per Price Schedule for the complete scope.
- 13.2. The grand total price of all the items in BOQ shall be the basis for deciding the lowest bidder.

### **14. VARIATION IN SCOPE OF WORK / DEVIATION LIMIT**

- 14.1. BHEL reserves the right to add or delete items of scope of work depending upon the final requirement. For such addition or deletion the Contract price shall be adjusted based on the quoted unit price. Such variation is not expected to be more than  $\pm 30\%$ . The price quoted by the Contractor shall be valid for such variation.

### **15. EXTRA WORK**

- 15.1. The Contractor shall, when requested by BHEL, perform extra work at mutually agreed rates.

### **16. TERMS OF PAYMENT**

- 16.1. The Contractor shall be paid monthly running bill of **95%** of the value of the work actually executed on site provided the work has been executed to the satisfaction of the Engineer.
- 16.2. The balance **5%** of the bill value shall be released as follows--
  - (a) The **2.5%** of the bill value shall be payable on taking over of complete works by BHEL and passing of the final bill.
  - (b) The balance **2.5%** of bill value will be payable on completion of the guarantee period.
- 16.3. From the amount payable, recovery such as advances, security deposit, taxes etc. would be made.

- 16.4. Measurement of work completed shall be done by the Contractor and submitted to BHEL for checking and approval. For this purpose, Contractor shall submit hard copies as well as a soft copy in the floppy / CD containing abstract & detailed measurement sheets of the bill. The measurement sheets and the bill will be checked and approved by BHEL for further processing, or returned to the Contractor for correction and resubmission. The certificate of Engineer regarding such approval and passing of sums shall be final and conclusive against the Contractor.
- 16.5. The abstract of the measurements and RA bill shall be entered in BHEL Measurement Book and signed and dated by both parties as per the provisions of the General Conditions of Contract.
- 16.6. All running bill payments shall be regarded as advance payments against the final bill. Any certificate relating to the work done during monthly running bills may be modified by any subsequent interim certificates or by the final certificates and no certificate of the Engineer supporting an advance payment shall of itself be conclusive evidence that any work or materials to which it relates are in accordance with the contract.
- 16.7. In case any amount is withheld by BHEL during course of execution of work on account of non-compliance of contract requirement, the same shall be recovered / released from the contractors bills as deemed fit by the engineer-in-charge of BHEL and the decision of engineer-in-charge shall be final in this regard and binding on the contractor.
- 16.8. **Payment against bulk supplies:** Payment to the tune of 75 % of the value of bought out items which are purchased in bulk, such as Light fittings, electric poles etc may be made provided the contractor supplies to site all the quantities in bulk for each item with prior permission of BHEL Engineer and submit the documents along with an indemnity bond as required by the engineer before submitting claim. The amount thus paid shall be recovered in the subsequent running bills upon execution of such items and it's incorporation in the permanent works.

## 17. GUARANTEE

- 17.1. The works constructed by the Contractor shall be guaranteed for a period of 12 (twelve) months from taking over by BHEL. During this period the Contractor shall attend to all the matters relating to the Contract work as required by BHEL.

## 18. PENALTY FOR DELAY

- 18.1. If the Work is not completed within the specified period and any extension thereof, the Contractor shall be liable to pay penalty for delay in completion of work @ 0.75% of the total Contract value for every week of delay or part thereof, subjected to a maximum of 10% of the Contract value without BHEL being required to establish and prove the actual loss/damage suffered by BHEL on account of such delay.

## 19. COMPLETION CERTIFICATES/ NOC FROM LOCAL STATUTORY BODIES

- 19.1. Contractor has to arrange at his own cost to obtain building/ work completion certificates if required to be obtained from the local statutory bodies/ electrical inspectors of the govt. .However, any fees required for obtaining such NOCs shall be paid by BHEL on production of relevant depository challans/ receipts from such Govt. authorities.

## **20. DRAWINGS**

- 20.1. Following drawings are enclosed for reference purpose only.
  - a) Site plan
- 20.2. The construction of the works shall be taken up on the basis of construction drawings which shall be issued after award of the work.

**Annexure: SCC-I****INDICATIVE LIST OF T&Ps TO BE ARRANGED BY THE CONTRACTOR AT HIS OWN COST**

<b>SL NO</b>	<b>EQUIPMENT</b>	<b>QUANTITY</b>
1.	Suitable Capacity trailer with truck	As per requirement
2.	Hydra crane 8 / 10 T	As per requirement
3.	MIG / TIG Welding Machine for Aluminium welding	Adequate Nos.
4.	Welding Transformers / Welding generators	Adequate Nos.
5.	Gas cutting set	Adequate Nos.
6.	Grinders	Adequate Nos.
7.	Calibrated Torque wrenches	2 Sets
8.	Pedestal mounted Drill Machine	1 No.
9.	Vacuum Cleaner	1 No.
10.	Hydraulic crimping tool	2 No.
11.	Hand crimping tools	Adequate Nos.

**NOTES:**

- 1 The above list specifies only major T&Ps (may not be complete to be deployed by the contractor). All additional / other tools and plants including trucks & devices, tackles, machines, measuring instruments etc. in good and safe working conditions which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.
- 2 Other terms and conditions regarding above items please also refer clause 38 T&P/IMTEs).

**Annexure- SCC-II****INDICATIVE LIST OF IMTEs TO BE ARRANGED BY THE CONTRACTOR AT HIS OWN COST**

SL NO	EQUIPMENT	QTY
1.	500 V / 1000V, (Hand operated) megger	1 No.
2.	2.5 KV (Main operated megger)	1 No.
3.	HV Test Kit 0 to 60 KV (100mA leakage current)	1 Set
4.	Digital Multimeters with current probe	6 Nos
5.	Primary Injection Kit	1 Set
6.	Secondary Injection Kit	1 Set
7.	Relay Testing Kit	1 Set
8.	Tong Testers ( various ranges )including mA Range	3 Sets
9.	Micro ohm meter with 100Amps DC Source	1 Set
10.	PPM Measuring Kit	1 No.
11.	Mill volt drop test kit with 100 Amps source	1 No.
12.	Analog Multimeters	2 Nos
13.	Single / three phase variac	1 Each
14.	Motor checker	1 No
15.	Kelvin double bridge for low resistance measurement	1 No

**NOTES:**

- The above list specifies only major IMTEs (may not be complete to be deployed by the contractor). Contractor has to set up the field laboratory with facilities required for material & concrete testing. All additional / other IMTEs / measuring instruments etc. in good and safe working conditions which are required for satisfactory & timely completion of work shall also be deployed by the contractor within finally accepted rate / price.
- Other terms and conditions regarding above items please also refer clause 38 T&P/IMTEs).

**ANNEXURE: SCC -III**

**ANALYSIS OF UNIT RATE QUOTED**

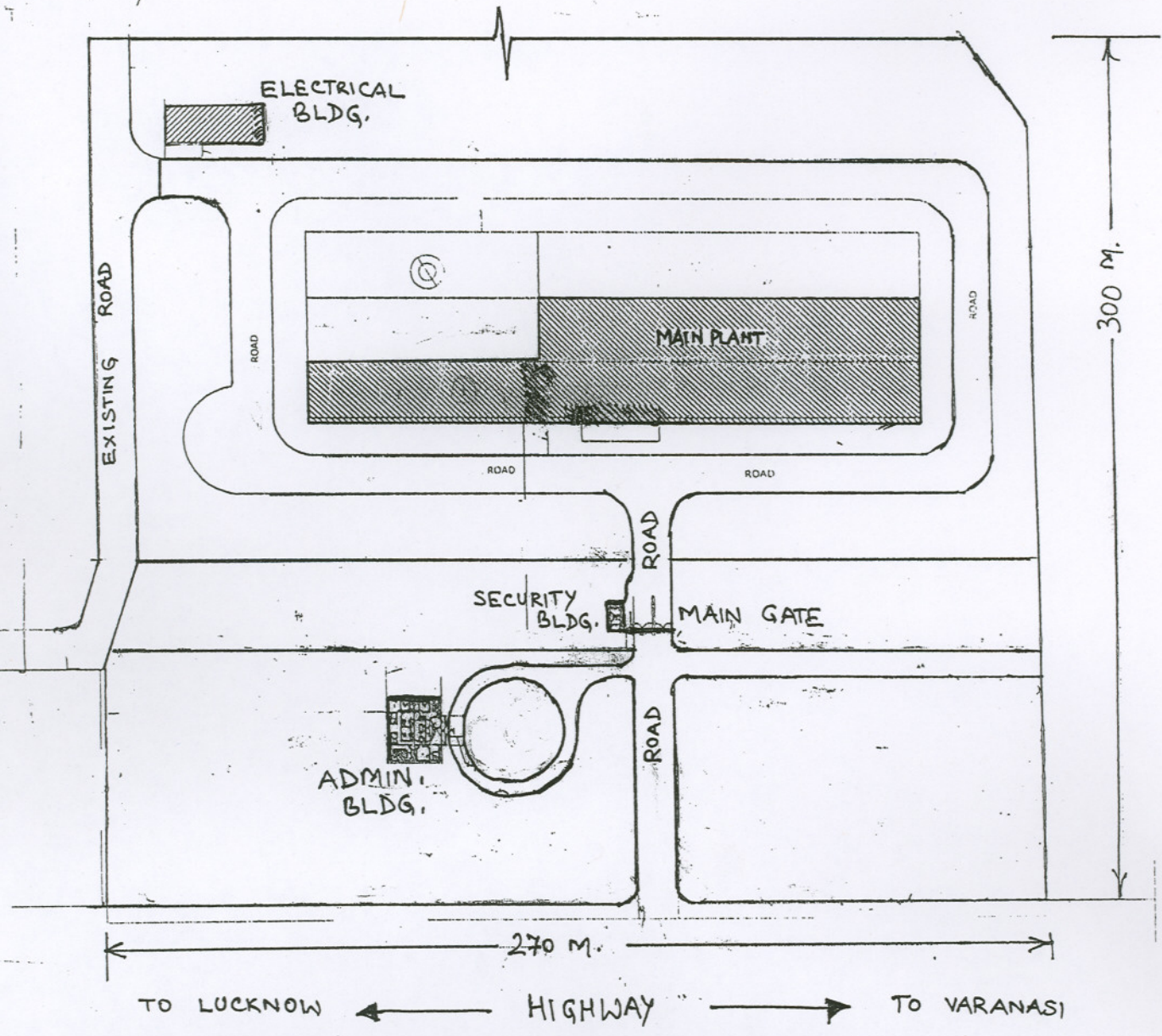
Sl.no.	Description	Percentage of the unit rate quoted	Remarks
1.	Salary & Wages of Staff & workers		
2.	Consumables (a) Gases (b) Welding Electrodes (c) P.O.L. (d) Others		
3.	Depreciation & maintenance for T & Ps		
4.	Depreciation & maintenance for other items		
5.	Establishment and administrative expences of site		
6.	Overheads		
7.	Profit		

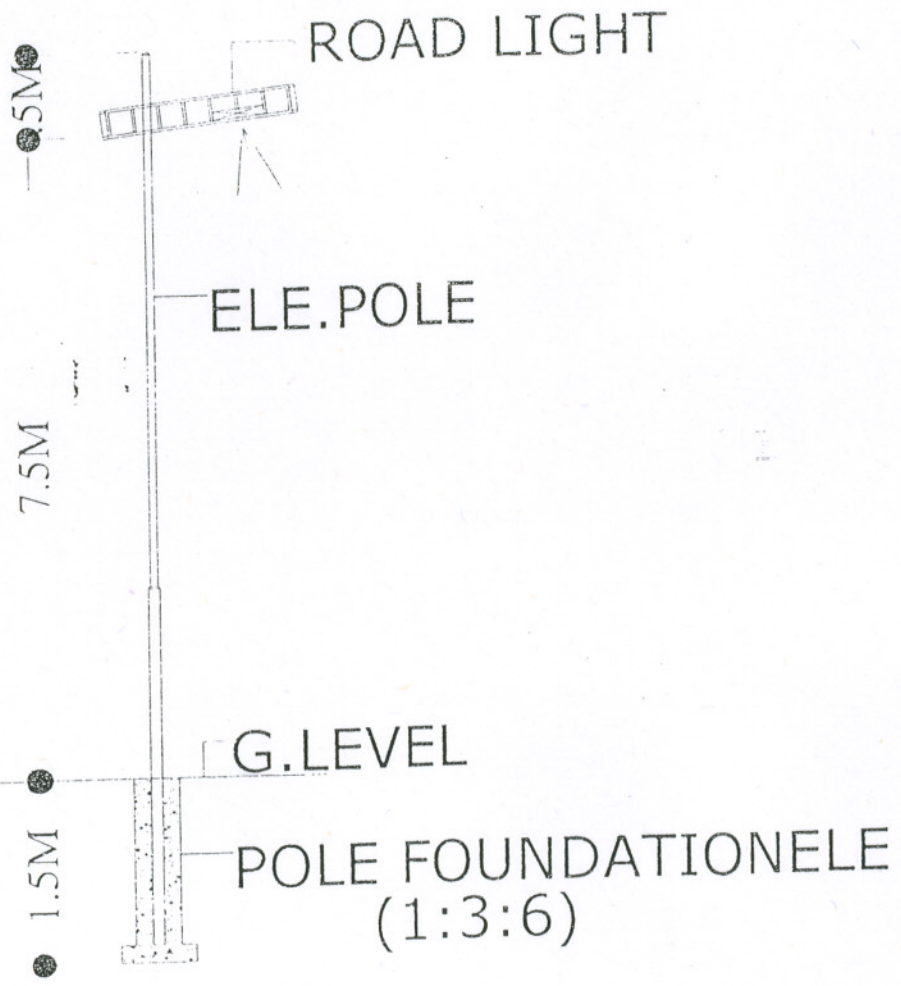
(Signature of tenderer)  
With Stamp

PRELIMINARY  
FOR TENDER PURPOSES ONLY



LAYOUT OF PLANT		
SKETCH NO	CSU/LAY/15	
DATE	11 <sup>th</sup> DEC-06	REV NO 00





STEEL TUBLER ELECTRIC POLE

	LAYOUT OF POLE	
	SKETCH NO	CSU/LAY/25
	DATE 11 <sup>th</sup> JULY '07	REV NO 00