

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

TENDER DOCUMENT (PRICE BID)

Name of work : Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.
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Value of work : Rs. 459 Lakh plus applicable service tax

Tender Notice No. : 02 / 13-14

Tender Schedule No. : 03 / 13-14

Period of Contract : 9 Months

Issued to :

**BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI – 620 014**

CIVIL ENGINEERING DEPARTMENT (FACTORY)

PREAMBLE

PROJECT INFORMATION:

BHEL is proposed to install a Power Equipment Fabrication Plant at Sakoli Tehsil, district Bhandara of Maharashtra State in the land area of about 475 acres. It is proposed to construct RCC compound wall along the boundary of the Project area.

Site information:

Location : Tehsil : Sakoli (Villages covered: Mundipar, Bamhani and Khairi)

Dist : Bhandara

State : Maharashtra

Latitude : 21° 05' 00"N

Longitude : 79° 59' 00" E

Nearest Railway Station : Soundad- 10 Kms away from Sakoli

Nearest Village : Sakoli

Nearest Seaport : Mumbai

Nearest Airport : Nagpur (around 99 kms from Sakoli)

Access Road : **Sakoli** is located on Hazira-Kolkata NH-6. Sakoli is well connected to the major and minor cities. The National Highway 6 mainly connects Nagpur and Kolkata (via Bhandara, Deori, Jabalpur etc).

CLIMATIC CONDITIONS:

Temperature: Maximum: 47 Deg. Celsius and Minimum: 11.6 Deg. Celsius

Humidity: 52.3 %

Rainfall: In South West monsoon (June-Sep): 50 days.
Average total rainfall: 1250 - 1500 mm.

Seismic data:

Seismic Intensity : As per IS: 1893-2002 - Zone II.

1. **The scope of work includes Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State (approx. length: 6750 RM) including removal of dense grass, vegetation, wild growth, trees etc. along the proposed boundary compound wall.**
2. **The tender value includes cost of cement, reinforcement steel & structural steel and all other materials.**
3. **Supply of materials like cement, reinforcement steel, structural steel, etc. are also included in the scope of the contractor.**

The adequacy of cement for the items provided in the Bill of Quantities shall be as per the coefficient for cement consumption given in CPWD DSR 2012. (Refer Page No. 389 to 423).

4. **Validity of the offer shall be for six months from the latest due date of offer submission.**
5. **No Price Variation Clause is applicable for this contract.**
6. **The contract period will be 9 (Nine) months.**
7. Time is the essence of the contract. Being a time bound Project with capital expenditure, the contractor should make all efforts to complete the work in time. Even though the overall completion period is indicated as **9 months**, the work shall be completed progressively and handed over.
8. Usually, working hours are limited to day time only. In emergency cases to carryout works during nights, it may be done so with the specific prior permission of BHEL. In such case, it is to be carried out in the presence of BHEL officials or their authorized persons.
9. Quoted rate shall be firm throughout the contract period of **9 months** and no cost escalation is allowed on any account.
10. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rates quoted shall be deemed to be inclusive of all such contingencies.
11. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (twenty percentage).
12. The successful tenderer has to execute any item of work irrespective of the quantity available in the tender without any reservation till the contract value does not vary more than 20%.
13. The rate offered is for finished item of works and shall provide for the complete cost towards fuel, tools, tackles, plant & machinery, temporary works, labour, **materials including scrap and invisible wastages**, levies, taxes, transport, lay-out, repairs, rectifications, maintenance till handing over, supervision, labour colonies, establishment, services, revenue expenses, overheads, profits & all other incidentals etc., complete.

The rate quoted shall not include service tax and BOCW Cess. However the service tax as applicable for this contract work and the same can be claimed from BHEL along with their monthly bills for further payment to be made to the authorities concerned. At present the rate of service tax is 4.944%. (Service tax + Edu. Cess+ Sec. Higher Edu. Cess). The contractor has to submit the payment challan as a documentary proof of having paid the service tax for the previous bill for which he has received the service tax payment along with the subsequent bill for which payment has to be processed.

The successful tenderer should remit 1% cess as per Building and Other Construction Workers Act 1996 as applicable to the authorities concerned from time to time. The same can be reimbursed from BHEL on production of valid documentary proof for having paid the 1% cess of the value of work done to the authorities concerned. As soon as the BHEL – PEFP Factory Registration obtained, the BOCW Act will not be applicable.

14. The work shall be carried out as per Civil Engineering Department Work & Safety procedure, AWS / BIS specifications, standard code of practice and as per the instructions of Engineer-in-charge. The brief description of items of work is given in the bill of quantities provided in the Price Bid. **Tenderer has to quote rates both in figures and in words for all the items given in the Bill of Quantities provided in the Price Bid. (From page No. 42 to 58).**
15. **New Taxes / Levies**
In case the Government imposes any new levy / tax on the output service / goods / work after award of the contract, the same shall be reimbursed by BHEL at actual.
In case any new tax / levy / duty etc. becomes applicable after the date of Bidder's offer, the Bidder / Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same **before opening of Price Bid**. Claim for any such impact after opening the Price Bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.
16. For any item of work not covered in Bill of Quantities, the rate will be arrived at based on the conditions given in BHEL General Conditions of Contract in force.
17. The works contract to be entered into with the successful tenderer will be governed by the BHEL Revised General Conditions of Contract in force
18. The tenderers are advised to visit **PEFP Project site at Sakoli, Bhandara Dist., Maharashtra State** and get themselves acquainted with the site conditions before submitting the offer. Since the job shall be executed at site, bidders must visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation, applicable wage structure, wage rules, etc before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions.
19. BHEL will arrange to depute their representative on specific dates to co-ordinate and accompany the tenderers to visit the site
20. For any clarification on the tender document, the bidder may seek the same in writing or through e-mail, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
21. In the event of any conflict between requirement of any clause of this specification / documents / drawings / data sheets etc or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error / missing pages / other clerical errors in the tender documents, noticed must be pointed out before submission of offer, else BHEL's interpretation shall prevail.

22. Order of Precedence:

In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

- a. Amendments / Clarifications / Corrigenda / Errata etc issued in respect of the tender documents by BHEL
- b. Notice Inviting Tender (NIT)
- c. Price Bid
- d. Qualification Bid
- e. General Conditions of Contract

23. The decision of Engineer-in-charge shall be final and binding on the contractor regarding clarification of items in this tender schedule.

24. The following eligibility criteria shall be complied to fulfill the Pre-Qualification Of Qualification Bid:-

1. **Separate Registration for EPF, ESI, PAN & Service Tax and for the last three years (2009-12)- IT returns acknowledged by IT Office, Profit & Loss Account and Balance Sheet certified by the auditor.**

2. **Average annual turnover of similar works in the last 3 years shall be atleast for a value of (Rs. 137.70 L)**

During last seven financial years should have successfully completed works either

3. **Three similar works not less than (Rs. 183.60 L)**

Or

Two similar works not less than (Rs. 229.50 L)

Or

One similar work not less than (Rs. 367.20 L)

4. **Latest Solvency certificate (obtained within 6 months) from Nationalised / Scheduled Bank shall be at least for a value of (Rs. 183.60 L)**

25. The norms for qualification with prescribed score are attached in the Qualification Bid. Evaluation will be done accordingly. Minimum score required for qualification is 60.

26. The value of turnover and the value of similar works mentioned above includes cost of cement, reinforcement steel and structural steel. However if the turnover value furnished by the tenderer excludes the above materials, then the tenderer has to furnish the cost of the same separately. If it is not furnished, the materials cost will be presumed as follows: -

Civil & structural works combined	- 50 %
Civil works alone	- 35 %
Structural works including cloaking items	- 70 %
Other minor maintenance works	- 20 %

27. The tenderer has to satisfy the Pre-Qualifying Requirements stipulated for this Tender in the NIT in order to be qualified. The date of opening of price bids / conducting reverse auction shall be intimated to only such technically qualified bidders. BHEL reserves the right not to consider offers of parties under HOLD.

28. The tenderer shall submit documents in support of possession of 'Qualifying Requirements' duly self-certified and stamped by the authorized signatory, attested by gazetted / Notary public, indexed and properly linked in the format for PQR. In case BHEL requires any other documents / proofs, these shall be submitted immediately.
29. Documentary evidences (Xerox copies - attested) for turnover on similar works, works experience, P.F, ESI, Sales Tax, Service Tax, Excise Duty, PAN Registration etc., all as indicated & required in the tender document should be furnished without which it will not be taken into account.
30. The tenderer may have to produce original document for verification if so decided by BHEL.
31. The works executed in the own name of the tenderer only will be considered for eligibility criteria. The nominated committee may also visit the works executed by the contractor to ascertain the nature of work relating to similar works before qualifying.
32. Dissimilar / irrelevant works will not be considered for eligibility criteria.
33. In case of tender documents downloaded from website, tender shall accompany the tender cost of Rs.750/- in the form of Demand Draft (separate) in favour of BHEL payable at Tiruchy in addition to the EMD amount in the form of Demand Draft. Tenders without tender cost will also be summarily rejected.
34. Tender without EMD or one time EMD reference will be summarily rejected and the qualification bid and price bid shall not be considered.

IMPORTANT INFORMATION:

35. **The offers of the tenderer / bidders who are on the banned list and also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site (www.bhel.com ---> Tender Notification -□ List of Banned Firms)**
36. BHEL reserves its right to reject the tender on account of unsatisfactory past performance by the present tenderer in another project / sister unit awarded under different enquiry.
37. Purchase preference policy if applicable will be extended to CPSE bidders subject to other terms & conditions as provided in the office memorandum issued by DPE. The tenderer has to furnish copy of Government circular for claiming purchase preference.
38. BHEL reserves the right to decide the successful bidder on the basis of Reverse Auction process. In such case all qualified bidders will be intimated regarding procedure/ modality for Reverse Auction process prior to Reverse Auction and price will be decided as per the rules for Reverse Auction.
39. **BHEL reserves the right to reject any or all the offer without assigning any reasons and cancel the tender due to technical or administrative reasons.**
40. **The successful tenderer has to furnish the security deposit, as per Clause 13 of Tender Notice, attached in the Qualification Bid if the work is awarded. Also it is to be noted that after award of work the successful tenderer has to furnish atleast 50 % of security deposit before the commencement of work.**
41. Bank Guarantee format and the list of consortium banks are enclosed for BG submission against EMD / Security Deposit
42. Tenderers are requested to furnish the duly filled in E format (attached as separate in the Qualification Bid) sheet along with a cancelled cheque leaf to accept Electronic Fund Transfer / R T G S transfer for any payment from BHEL, Trichy.

43. **No advance / mobilization advance will be given and the part-payment or advance for raw materials brought by the successful tenderer will not be paid. The payment for the finished items of works only will be paid after incorporating the required raw materials into the work, if any.**
44. **LD / Penalty clause is applicable as per General Conditions of Contract in force.**
45. **The successful tenderer has to ensure payment of Minimum Wages as per Maharashtra State Minimum Wages including its periodical revision as applicable under law from time to time.**
The labourers engaged in this contract shall be paid additional payment as mentioned below in addition to the payment of Minimum wages as stated above.
- | | | |
|----|------------------------------------|---------------------------|
| a) | Unskilled Worker | Rs. 2000 per month |
| b) | Semi-skilled Worker | Rs. 2300 per month |
| c) | Skilled Worker / Supervisor | Rs. 2500 per month |
- Also the labourers shall be paid a minimum bonus which shall be 8.33% as per the payment of Bonus Act 1965 for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.**
- The successful tenderer shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.**
46. The successful tenderer should pay Bonus to their workmen engaged for this contract work as per the payment of Bonus Act 1965.
47. BHEL may insist for witnessing the regular payment to the labour. They may also like to verify the relevant records for compliance with statutory requirements. The successful tenderer shall enable such facilities to BHEL.
48. The successful tenderer will deduct the necessary amount from his employees towards provident fund & ESI and contribute the equal amount as per Government of India rules. This amount will be deposited regularly to the Provident Fund & ESI Authorities concerned and account code obtained. The successful tenderer shall submit the above account code duly certified by PF & ESI authorities to BHEL project – in -charge. Also all other employees' benefits are to be borne by the contractor as per statutory laws.
49. The successful tenderer should submit labour records such as attendance, wage acquittance, ESI and PF remittance challans for the labourers engaged in the Project site only.
50. The successful tenderer has to deploy adequate labour of required categories such as Unskilled, Skilled, Welder, Fitter, Mistry, Technically experienced, etc. so as to execute the works simultaneously in all areas of work. Expertise labour only to be engaged for specialized items of work and the technical persons with experience shall have to produce valid certificate for verification.
51. The successful tenderer shall engage all the unskilled, skilled, especially skilled labour and supervisory staff for the work. Only trained and competent personnel with previous experience in the job shall be employed. However, BHEL reserves the right to decide on the suitability of the workers and other personnel who will be employed by the contractor. BHEL reserves the right to insist on removal of any employee of the contractor at any time, if they found him unsuitable. The successful tenderer shall be bound to follow the instruction of BHEL.
52. It is the responsibility of the contractor to engage his workmen in shifts and /or on overtime basis for achieving the target set by BHEL. This target may be set to suit BHEL's requirements or to advance date of completion of events or due to other reasons. The decision of BHEL in regard to setting the targets will be final and binding on the successful tenderer.

53. The successful tenderer shall employ only qualified and experienced engineers/supervisors for this job. They shall have professional approach in executing the work having adequate knowledge and experience in the fields. The successful tenderer shall give an organization chart indicating the staffing pattern.
54. The successful tenderer has to submit the organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
55. The successful tenderer is required to carry out erection activities as directed by the department officials. It is required to engage certain minimum strength of staff for effective supervision of works as indicated below:
- | | | |
|---------------------------------------|---|--------|
| Site in-charge / Construction Manager | - | 1 No. |
| Qualified Surveyor | - | 1 No. |
| Supervisor/Engineer (Diploma Holder) | - | 4 Nos. |
56. Adequate number of Quality Engineer and qualified Safety Engineer should be deployed at site.
57. Expertised labour only to be engaged for specialized items of work like laying of ceramic tiles, marbles, cuddapah slabs, granite slabs and false ceiling, partition, wall paneling, architectural finishing etc. and work experienced persons shall be engaged for fabrication, water supply, railway track laying and aligning works, sewerage system work, etc.
58. The successful tenderer shall provide the names and details of Engineer / Supervisors at the time of mobilization to BHEL as per the proposed organization chart.
59. Exclusive Stores personnel should be engaged who would co-ordinate with department official for clearance and collection of BHEL supplied materials if any for works.
60. Separate non-technical persons should be engaged for arranging daily gate passes for labours and vehicles entry in all the gates of the site Complex.
61. The successful tenderer's supervisory staff shall execute the work in the most substantial and workmanlike manner in the stipulated time. Accuracy of work and aesthetic finish are essential part of this contract. They shall be responsible to ensure that the assembly and workmanship conform to dimensions and tolerances given in the drawings/ instructions given by BHEL Engineer from time to time.
62. The supervisory staff employed by the successful tenderer shall ensure proper outturn of work and discipline on the part of the labour put on the job by the successful tenderer and in general, see that the works are carried out in a safe and proper manner and in coordination with other labour and staff employed directly by BHEL or other contractors of BHEL or BHEL's Client.
63. An industrial relations supervisor shall coordinate for the implementation of local labour laws, maintenance of records as required by contract labour (regulation and abolition act) and also coordinate with the local labour authorities. The successful tenderer has to ensure minimum wages payment to their labours as per the rule of the state and they have to produce documentary evidence to that effect to BHEL.
64. If at any time during the execution of work, it is noticed that the work is suffering on account of non-availability / shortfall in provision of resources from the successful tenderer's side BHEL will make suitable alternate arrangements at the risk and cost of contractor. The expenditure incurred with overheads thereby shall be recovered from the successful tenderer.
65. It shall be the responsibility of the successful tenderer to see that the workmen do not utilize the departmental canteen facilities. The successful tenderer has to make his own arrangements to provide refreshment for the workmen.

66. The successful tenderer shall carry out health performance test at his cost for all the workmen engaged in the work through a registered medical practitioner and produce certificate on demand.
67. The successful tenderer shall obtain independent Labour License under the Contract Labour (regulation and abolition) Act from the concerned authorities based on the certificate (form-V) issued by BHEL.
68. The successful tenderer shall strictly adhere to various labour laws in force.
69. The successful tenderer shall also comply with the requirements of local authorities / project authorities calling for police verification of antecedents of the workmen, staff etc.
70. The successful tenderer should remit 1% cess as per Building and Other Construction Workers Act 1996 as applicable against payment received from BHEL. Please refer the BOCW Act 1996 in this regard.

BUILDING & OTHER CONSTRUCTION WORKERS (REGULATION OF EMPLOYMENT AND CONDITIONS OF SERVICE) ACT, 1996 (BOCW Act) AND RULES OF 1998 READ WITH BUILDING & OTHER CONSTRUCTION WORKERS CESS Act, 1996 & CESS RULES, 1998.

In case any portion of work involves execution through building or construction workers, then compliance to the above titled Acts shall be ensured by the contractor and contractor shall obtain license and deposit the cess under the Act. In the circumstances it may be ensured as under:-

- i. It shall be the sole responsibility of the contractor in the capacity of employer to forthwith (within a period of 15 days from the award of work) apply for a licence to the Competent Authority under the BOCW Act and obtain proper certificate thereof by specifying the scope of its work. It shall also be responsibility of the contractor to furnish a copy of such certificate of licence / permission to BHEL within a period of one month from the date of award of contract.
 - ii. It shall be the sole responsibility of the contractor as employer to ensure compliance of all the statutory obligations under these act and rules including that of payment / deposit of 1% cess on the extant of work involving building or construction workers engaged by the contractor.
 - iii. It shall be the responsibility of the sub-contractor to furnish the receipts / challans towards deposit of the cess together with the number, name and other details of beneficiaries (building workers) engaged by the sub-contractor during the preceding month.
 - iv. It shall be the absolute responsibility of the sub-contractor to make payment of all statutory payments & compensations to its workers including that is provided under the Workmen's Compensation Act, 1923.
71. **The successful tenderer shall make his own arrangements for accommodation with necessary facilities such as drinking water, sanitation and lighting etc. for his workmen and the staff. The electricity for labour accommodation shall be arranged by the contractor on his own. Also, the contractor has to make his own arrangement for transportation of his workmen and other employees. BHEL shall not provide any facility in this regard.**
 72. **The successful tenderer should establish his own site office, fabrication yard, handling facility, storage facility, security arrangements, etc., for which vacant land will be allotted on specific request for which the rent will not be collected.**
 73. **The successful tenderer shall make his own arrangements for field office and stores for accommodating necessary equipments, tools room for execution of the work. Only open space will be provided by BHEL free of charges within the project premises at the available location.**

74. **The successful tenderer will have to make his own arrangements for water without any extra claims and water required for the work and drinking for the workmen shall be arranged by the successful tenderer.**
75. **The successful tenderer will have to make his own arrangements for Electrical energy without any extra claims and electrical energy required for the work and for other purposes shall be arranged by the successful tenderer. The successful tenderer shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution to other required area of work.**
76. **The successful tenderer should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jack hammer with silencer.**
77. **The successful tenderer should have their own well established laboratory for conducting various tests as per scope of work mentioned in the Tender document at their manufacturing centre / unit.**
78. The successful tenderer shall arrange adequate floodlights, hand lamps and area lighting. Provision of distribution lines for lighting from the single point to the required place with proper distribution boards, observing the safety rules laid down by the electrical authorities of the state shall be done by the successful tenderer including all the materials like cables, fuses, switch boards etc.
79. The successful tenderer shall provide at different elevation suitable arrangement for urinal and drinking water facility with necessary plumbing & disposal arrangements including construction of septic tank. These installations shall be maintained in hygienic condition at all times.
80. On completion of work, all the temporary buildings, structures, etc shall be dismantled and levelled and debris shall be removed as per instruction of BHEL by the successful tenderer at his cost. In the event of his failure to do so, the same will be arranged to be removed and expenditure thereof will be recovered from the successful tenderer. The decision of BHEL engineer in this regard shall be final. However, the scope of dismantling and levelling the area is limited only to the successful tenderer's site office, yard and other spaces occupied by the contractor.
81. The successful tenderer shall follow norms of BHEL security system for movement of men including bio-metric system & materials within the complex
82. All safety measures are to be followed during execution of work, particularly during blasting and only licensed blaster should be engaged for this purpose. Sufficient care shall be taken by the contractor during excavation to avoid damages to the buried pipe lines, cables and other infrastructure like railway lines if any etc. Controlled blasting including muffling can be carried out with prior permission from safety department.
83. All safety measures are to be followed during execution of work, particularly while working at heights. Sufficient care shall be taken by the contractor to avoid damages to the buried pipe lines, cables and other infrastructure like railway lines if any etc.
84. To safeguard the persons working at height in roof, wall etc., sufficient number of Industrial Safety nets shall be provided at tenderer's cost in appropriate level and locations. The working hand including Supervisors, Engineers should wear the personal protective items and safety measures such as helmets, safety belts, shoes, etc., before entering into working place.
85. The tenderer is required to quote their rates inclusive of cost of all materials, T&Ps, labour, etc. BHEL reserves the right to inspect and reject any T&P not found satisfactory.

86. The successful tenderer has to submit the list of machineries to be deployed exclusively for this work, organization chart of their set up for the works and any change thereafter in the organization set up shall have the prior approval of BHEL.
87. The successful tenderer should submit the programme for the completion of work and the list of machineries and site personnel to be deployed for the work along with tender.
88. The successful tenderer should deploy precise instruments like total station, measuring devices using laser beam to ensure error free line, level and alignment of holding down bolts etc. The successful tenderer is required to deploy skilled experienced labourers in handling such instruments and has to coordinate with other agencies like Civil contractors to achieve accuracy for trouble free erection of structures.
89. The successful tenderer should bring the construction earth moving machineries like Poclain, Paver, Road Roller, JCB etc., as and when required for the work without any delay. Also required number of the following tools & Plants / instruments shall be made available always at site for the works.
- a) Precise Leveling instruments, theodolite and total station
 - b) Full load mixture machine / mini batching
 - c) Petrol / Kerosene driven vibrator/ mechanical vibrat
 - d) Cube moulds
 - e) Inter carting vehicle (tractor, hand trolley etc)
 - f) Hydra cranes
 - g) Power operated winches
 - h) Mobile / Hydraulic crane
 - i) Welding machine etc.
90. The successful tenderer has to arrange sufficient number of lorries to collect & transport the surplus earth, construction debris generated, etc. at site. Otherwise BHEL would clear the debris at the contractor's risk and cost.
91. All tools and plants including jack hammer with silencer & bits, rock drilling machines, etc., required for all the works covered under this contract will have to be brought by the successful tenderer.
92. The successful tenderer's materials and tools & plants shall have to be brought inside factory with proper invoice / voucher and make necessary entry in the security gate. They should maintain proper record for tools and plants, materials, etc., brought inside the project site.
93. The successful tenderer is required to provide all necessary Tools and Plants (T&P), measuring instruments and handling equipments for this scope of work. BHEL is not providing any T&P for this work.
94. The successful tenderer shall provide all the necessary scaffolding materials, temporary structures and necessary safety devices etc, during execution of the work.
95. Timely deployment of adequate quantity of T&P is the responsibility of the successful tenderer. The successful tenderer shall be prepared to augment the T&P at short notice to match the planned programme and to achieve the milestones.
96. The successful tenderer shall submit periodical reports in respect of following aspects of operation:
- 1) Availability and utilization of contractor's Tools & Plants
 - 2) Daily manpower reports
 - 3) Daily progress reports of activities & incidents
 - 4) Calibration reports
 - 5) Records of wages payment
 - 6) Any other report/record as may be specified by BHEL.
- BHEL at site will suggest formats for these reports.

97. Since the responsibility for the quality, workmanship and accuracy of any work being carried out under this contract lies with the successful tenderer, the successful tenderer should ensure that no work is done without the presence of successful tenderer's representative at the work spot. The successful tenderer should arrange for surveying construction site at his own cost.
98. The successful tenderer should develop casting yard with neat platform and curing tub to cast RCC posts, RCC slabs, etc. under the direct supervision of BHEL officials.
99. All the works shall be executed as per the standard specifications as provided in TNBP / BIS.
100. All the materials to be used in the work and the nature of work shall conform to the respective BIS and National Building Organisation, Standard Specifications forming part of "ALL INDIA STANDARD SCHEDULE OF RATES" specifications and shall be got approved by the Engineer-in-charge before actual incorporation in the work.
101. With regard to specifications not covered by the General and Special Conditions of Contract, those contained in the DSR 2012 / CPWD Standard Specifications / TNBP or other specifications approved by Bharat Heavy Electricals Limited, shall apply.
102. The successful tenderer should submit the mix design for RCC wherever indicated for different mix of concrete for different grade of cement at his cost through reputed institution.
103. The successful tenderer should use only weigh batch for all reinforced cement concrete works (controlled concrete). The successful tenderer is advised to install concrete mini batching plant at site considering the quantum of concrete work involved.
104. All materials brought by the successful tenderer for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work.
105. The successful tenderer should use only the materials of brand and quality as approved by BHEL.
106. The successful tenderer has to procure and use all the engineering and construction materials for the works as per approved brands as indicated in the tender documents.
107. All materials and consumables brought by the successful tenderer should have manufacturer's certificate.
108. The successful tenderer shall provide all consumables required for carrying out the work covered under this scope of work excepting those which are specifically indicated as BHEL supply.
109. All consumables, to be procured and used for the work shall have prior approval of BHEL engineer in regard to brand and quality specification.
110. The successful tenderer should maintain proper accounts for materials brought by the him and if any materials supplied by the department and the same should be available at the site of work for verification and check by the Officials of this Organisation at any time.
111. The successful tenderer should extend full co-operation to the other contractors who may be doing other works in the same area to enable them to execute their portions of work without any delay or difficulty.
112. All the structural works including fabrication, erection etc, are subjected to inspection and clearance by Third Party Agency fixed by BHEL.
113. The successful tenderer should extend full co-operation with the third party inspection agencies engaged by BHEL to adhere to the Quality Control Procedures ensuring quality.

114. Statement of completed works with detailed measurements and DODL if any, along with material consumption statements shall be submitted by the successful tenderer in the last week of every month for processing bill.
115. Payment will be made only for the quantities actually executed as measured and accepted finally. No separate payment will be paid for invisible and visible wastage and scrap materials.
116. The successful tenderer has to raise invoice in running bills based on the measurements written in the Measurement Book.
117. After completion of entire work, the successful tenderer will be allowed to take away the excess quantity of materials that are not paid but brought by the successful tenderer through proper gate passes.
118. In all matters of dispute, the decision of General Manager, BHEL, Tiruchirappalli – 620 014 is final and binding on the successful tenderer.

(TO BE STAMPED IN ACCORDANCE WITH STAMP ACT)

BANK GUARANTEE FOR SECURITY DEPOSIT

1. THIS DEED OF GUARANTEE made this..... day of(month).....(year)
By(Bank 's full address) in favour of M/s Bharat Heavy Electricals Limited, Unit : Thiruverumbur, Tiruchirapalli 620 014, having its Registered Head Office at BHEL House, Siri Fort , New Delhi 110049.

 2. **WHEREAS M/s Bharat Heavy Electricals Limited (hereinafter called the "COMPANY")**
have placed work order(s) which are pending as on date and also proposes to place further work order(s)) (hereinafter called the "CONTRACT") upto..... (Date) for fabrications/ for machining/supply of pressure and non – pressure parts with M/s.....(CONTRACTOR'S Full address) (hereinafter called the "CONTRACTOR /SUPPLIER") and as per the terms of the contract, the company has issued /proposes to issue raw materials to the contractor to enable them to complete the work.

 3. AND WHEREAS one of the conditions for placing such contract(s) is that the Contractor/ Supplier shall provide the Company a Bank Guarantee for Rs.in lieu of cash and towards the security deposit for the raw materials supplied and to be supplied, in pursuance of the contract(s) already placed but pending as on date and the contract(s) to be placed from time to time upto (Date) and also for the satisfactory performance and completion of work/supply as per the terms and conditions of the said contract(s).

 4. AND WHEREAS the Contractor/ Supplier..... approached the
(Bank) and at their request and in consideration of the arrangement arrived at between the said Contractor / Supplier and the said Bank,

 5. We(indicate the name of the bank with full address), do hereby undertake to pay the amounts due and payable under this guarantee without any demur, merely on a demand from the Company stating that the amount claimed is due by way of loss or damage caused to or would be caused to or suffered by the Company by reason of breach by the said Contractor(s) of any of the terms and conditions contained in the said Agreement or by the reason of the contractor(s) 'failure to perform' the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding Rs._____.

 6. We..... (Bank) , further assure that the Contractor/ Supplier shall be responsible for the safe custody and protection of the raw materials that have been supplied/and to be supplied by BHEL under the contract(s) already placed but pending as on date and to be placed upto(date) against all risks till they are delivered back as finished products to BHEL as per the terms and conditions of the Contract or as they may direct and until such time, the Contractor/ Supplier shall hold the raw materials in trust for BHEL and shall not alienate the same in any manner whatsoever by way of sale or mortgage or charge or hypothecation etc. in favour of any one else including the bank herein or any other banks /financial institutions etc.
- The raw materials shall always remain the property of BHEL and the Bank shall indemnify BHEL against the loss, damage or deterioration whatsoever in respect of the said raw materials while in the possession of the Contractor/Supplier. The raw materials of BHEL shall always be open for inspection by any Officer authorised by BHEL. The liability under this Guarantee is a continuing one covering all contracts already placed but pending as on date and to be placed upto.....(date) and should any loss or damage occur on account of the breach of the terms and conditions of the said contract(s) by the Contractor/ Supplier or should any surplus raw materials become due to the Company under the Contract(s) and remains undelivered by the Company, the Bank shall indemnify the Company for the loss /damage for the value of raw materials for Rs...../- (RupeesOnly) and this is without prejudice to any other remedies which may be otherwise available to the Company by deduction from any sum due or any sum which at any time hereinafter become due from the Contractor/ Supplier under this or any other Contract(s).

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ACCEPTING OFFICER

7. We undertake to pay unconditionally to the Company any money so demanded notwithstanding any dispute(s) raised by the Contractor in any suit, or proceedings pending before any Court or Tribunal or Arbitration or before any other authority relating thereto our liability under this present being absolute and unequivocal. The payment under this guarantee would not wait till the disputes have been decided by any Court or Tribunal or in the arbitration proceedings or by any other authority. The payment so made by us under this Bond shall be a valid discharge of liability for payment thereunder and the Contractor(s) shall have no claim against us for making such payment.

8. We.....(indicate the name of Bank), further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said Agreement and that it shall continue to be enforceable till all the dues of the Company under or by virtue of the said Agreement have been fully paid and its claims satisfied or discharged or till _____Office / Department/ Division of the Company certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said Contractor(s) and accordingly discharges this guarantee.

9. (i) Unless a demand or claim under this guarantee is made on us in writing on or before the _____we shall be discharged from all the liability under this guarantee thereafter. But where such claim or demand has been preferred by the Company with the Bank before the expiry of the said date, the claim shall be enforceable notwithstanding the fact that the said enforcement is effected after the said date.

(ii) For the purpose of this clause, any letter making demand on the Bank by M/s. BHEL dispatched by Registered Post with Ack.Due or by Telegram or by any Electronic media addressed to the above mentioned address of the Bank shall be deemed to be the claim / demand in writing referred to above irrespective of the fact as to whether and when the said letter reaches the Bank, as also any letter containing the said demand or claim is lodged with the bank personally.

10. We(indicate the name of Bank), further agree with the company that the Company shall have the fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said agreement or to extend time of performance by the said Contractor (s) from time to time or to postpone for any time or from time to time any of the powers exercisable by the Company against the said Contractor(s) and to forbear or enforce any of the terms and conditions relating to the said agreement and we shall not be relieved from our liability by any reason of any such variation or extension being granted to the said Contractor(s) or for any forbearance, act or omission on the part of the company or any indulgence by the company to the said Contractor(s) or by any such matter or thing whatsoever which under the law relating would but for this provision have effect of not so relieving us.

11. This guarantee will not be discharged due to the change in the constitution of the Bank or the Contractor(s).

12. It shall not be necessary for the company to proceed against the contractor before proceeding against the guarantor-bank and the guarantee herein contained shall be enforceable against them notwithstanding any security, which the company may have obtained or obtain from the Contractor shall, at the time when proceedings are taken against the guarantor hereunder be outstanding or unrealized.

13. Any claim or dispute arising under the terms of this document shall only be enforced or settled in the Courts at Tiruchirapalli.

14. The guarantor hereby declare that it has power to execute this guarantee and the executant has full powers to do so on its behalf under the proper authorities granted to him/them by the the guarantor.

15. We(indicate the name of Bank) lastly undertake not to revoke this guarantee during its currency except with the previous consent of the company in writing.

In witness whereof we....., (indicate the name of Bank) have hereunto setout Bank Seal the _____ day _____ month 200

Bank Phone No.
Bank e-mail ID
Bank FAX No

The Bank Guarantee bonds (BG) are to be submitted on non-judicial stamp paper of Rs. 100/- and should be only from any one of the below mentioned Banks in India.

LIST OF CONSORTIUM BANKS IN INDIA

(as on 15.12.2011)

List of Consortium Bank			
	Nationalised Bank		Nationalised Bank
1	Allahabad bank	19	Vijaya Bank
2	Andhra bank		Public Sector Banks
3	Bank of Baroda	20	IDBI
4	Canara Bank		Foreign bank
5	Corporation bank	21	CITI Bank N.A
6	Central bank	22	Deutsche Bank AG
7	Indian Bank	23	The Hongkong and Shanghai Banking Corporation Limited
8	Indian Oversea Bank	24	Standard Chartered Bank
9	Oriental bank of Commerce	25	The Royal Bank of Scotland N.V.
10	Punjab National Bank	26	J P Morgan
11	Punjab & Sindh Bank		Private bank
12	State Bank of India	27	Axis Bank
13	State Bank of Hyderabad	28	The Federal Bank Limited
14	Syndicate Bank	29	HDFC
15	State Bank of Travancore	30	Kotak Mahindra Bank
16	UCO Bank	31	ICICI
17	Union Bank of India	32	Indusind Bank
18	United Bank of India	33	Yes Bank

(1) It should be typed in the Rs. 100 value of stamp paper.

(2) It should be signed by TWO bank officials with Rubber stamp containing names & employee numbers of bank officials.

(3) It should be submitted with bank covering letter with sign and seal of the bank official.

REVERSE AUCTION

BHEL reserves the right to go for a Reverse Auction (RA) instead of Opening the submitted sealed bid, which will be decided after technical evaluation. Information and general terms and conditions governing RA are given below.

GENERAL TERMS AND CONDITIONS OF RA

Against this tender for the subject work/system with detailed scope of work as per tender specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING ON INTERNET.

1. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
2. BHEL will engage the services of a service provider who will provide all necessary training and assistance before commencement of on line bidding on internet.
3. BHEL will inform the vendor in writing in case of reverse auction, the details of Service Provider to enable them to contact & get trained.
4. Reverse Auction rules like event date, time, Start price, bid decrement, extensions etc. also will be communicated through service provider for compliance.
5. Vendors have to fax the Compliance form in the prescribed format (provided by Service provider) before start of Reverse auction. Without this, the vendor will not be eligible to Participate in the event.
6. BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Taxes and Duties, Freight charges, Insurance and loading factors (for non-compliance to BHEL standard Commercial terms & conditions) for each of the vendor to enable them to fill-in the price and keep it ready for keying in during the Auction.

The rate quoted shall not include service tax and BOCW Cess. However the service tax as applicable for this contract work and the same can be claimed from BHEL along with their monthly bills for further payment to be made to the authorities concerned. At present the rate of service tax is 4.944%. (Service tax + Edu. Cess+ Sec. Higher Edu. Cess). The contractor has to submit the payment challan as a documentary proof of having paid the service tax for the previous bill for which he has received the service tax payment along with the subsequent bill for which payment has to be processed.

The successful tenderer should remit 1% cess as per Building and Other Construction Workers Act 1996 as applicable to the authorities concerned from time to time. The same can be reimbursed from BHEL on production of valid documentary proof for having paid the 1% cess of the value of work done to the authorities concerned. As soon as the BHEL – PEFP Factory Registration obtained, the BOCW Act will not be applicable.

7. Reverse auction will be conducted on scheduled date & time.
8. At the end of Reverse Auction event, the lowest bidder value will be known on the network.
9. The lowest bidder has to Fax the duly signed Filled-in prescribed format as provided on case-to-case basis to BHEL through Service provider within 24 hours of Auction without fail.

10. Any variation between the on-line bid value and the signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
11. In case BHEL decides not to go for Reverse Auction procedure for this tender enquiry, the Price bids and price impacts, if any, already submitted and available with BHEL shall be opened as per BHEL's standard practice.
12. BHEL reserves the right to negotiate if need be, with the "L1" vendor of the Reverse Auction



BHARAT HEAVY ELECTRICALS LIMITED
(A Government of India Undertaking)
Unit : TIRUVERUMBUR, BOILER PROJECT, P.O.
TIRUCHIRAPALLI - 620 014.

CIVIL ENGINEERING DEPARTMENT

NOTICE INVITING TENDER

01. Name of work:

Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.

02. Estimated Cost : **Rs. 459.00 Lakh plus applicable service tax**
03. Earnest Money Deposit : **Rs.2,00,000/-**
04. Completion Time : **NINE (9) Months**
(From the date of commencement of the work which will be reckoned from the date of handing over to the Contractor)
05. Cost of Tender Document : **Rs.750/-**
(Rs. 825/- if required by post) including Sales Tax in DD form This amount will not be refunded under any circumstances.
06. Last Date for Receipt of Tenders : **14.55 Hrs. on 14.06.2013**
07. Date of Tender Opening : **15.00 Hrs. on 14.06.2013**
08. Maintenance Period :6 (Six Months from the date of actual completion of the entire work and handing over to Bharat Heavy Electricals Limited)

Tender document contains totally **321** pages, Qualification Bid - **256** pages, Price Bid - **65** pages including Bill of Quantities and Drawings.

Issued to Messrs. / Thiru :

ISSUING OFFICER

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INSTRUCTIONS TO TENDERERS

1. The tender is open to all Contractors. The Contractors not borne on the approved list of contractors of this Organization must submit the following testimonials simultaneously with their tenders.
 - i. A Certificate to establish that the tenderer is an independent contractor working on his own
 - ii. At least two certificates from responsible Officers of Government of Firms of repute, regarding the tenderer's capacity to undertake to undertake and carryout the work tendered for or similar work satisfactorily

NOTE :

- a) Copies of testimonials unless attested a Gazetted Officer will not be accepted
 - b) Non – Submission of the above testimonials simultaneously with the tenders may result in the tender being rejected
2. The tenders should be accompanied by a list of contracts already held by the contractor at the time of submitting the tender and giving the following particulars
 - a) Value of each contract
 - b) The balance value of work to be done on the same
 3. The tenderer is advised to obtain the tender documents in person or by a messenger duly authorized to do so. The BHARAT HEAVY ELECTRICALS LIMITED will not under any circumstances accept responsibility for the non – receipt of delay in the receipt of the tender documents by the tender.
 4. Rate for each item of the tender schedule should be quoted in FIGURES and in WORDS. In case of any difference in the rates quoted in figures and in words, the lower of the two rates will be taken as the tendered rate. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
 5. Rate quoted shall include all royalties, terminal taxes, Octroi duties, Central or Provincial Excise Tax, Sales Tax, cess on Building and other construction workers Act 1996 and any other taxes leviable under the State or Central Government rules. The Bharat Heavy Electricals Ltd., will not entertain any claim whatever in this respect.

The rate quoted shall not include service tax and BOCW Cess. However the service tax as applicable for this contract work and the same can be claimed from BHEL along with their monthly bills for further payment to be made to the authorities concerned. At present the rate of service tax is 4.944%. (Service tax + Edu. Cess+ Sec. Higher Edu. Cess). The contractor has to submit the payment challan as a documentary proof of having paid the service tax for the previous bill for which he has received the service tax payment along with the subsequent bill for which payment has to be processed.

The successful tenderer should remit 1% cess as per Building and Other Construction Workers Act 1996 as applicable to the authorities concerned from time to time. The same can be reimbursed from BHEL on production of valid documentary proof for having paid the 1% cess of the value of work done to the authorities concerned. As soon as the BHEL – PEFP Factory Registration obtained, the BOCW Act will not be applicable.

6. Tender Value is only approximate and liable for variation without entitling the tenderer to any compensation, till the total value of contract vary by more than 20% (Twenty Percentage)
7. Quoted rate shall be firm throughout the contract period of **9 months** and no cost escalation is allowed on any account including extended period if any.
8. The works contract to be entered in to with the contractor will be governed by the BHEL Revised General Conditions of contract in force.
9. Should a tender find discrepancies or omissions in the drawings or any of the tender documents or should be in doubt as to their meaning, he should at once address the authority inviting the tender for clarification. Every Endeavour is made to avoid any error which can materially affect the basis of the tender but the successful tenderer shall take upon himself to provide for the risk of any error which may be subsequently by discovered and shall make no subsequent claim on account thereof.
10. Tenders submitted by post should be sent "Registered Post with Acknowledgement due". These should be posted with due allowance for any delay in postal delivery. Tenders received after the due date and time of opening, tenders are liable to be rejected.
11. Where the tender called for covers only the building work and excludes internal services such as sanitary and water supply installations, electrification etc., the building contractor will have to leave pockets, holes, etc., as required for other works and will have to phase his work to ensure smooth progress of the work of the other agencies also as directed by the Engineer – in – charge.
12. Where the tender schedule contains special items of work such special floor finishes, foam concrete for insulation, special water proofing treatment to roofs etc., it will be entirely at the discretion of the Project Authorities to allot these items of work to other contractors specialized in these works. In such cases, the main building Contractor will have to tender all necessary co-operation to the agencies involved so as to ensure the smooth progress of all work.
13. The contractor's responsibility under this shall commence from the date of receipt of the contract order of acceptance of his tender. The scheduled period of completion for this work will be as mentioned in page No. **20** and the Contractor will have to plan his work accordingly.
14. Generally, the maintenance period for any work under BHEL Organization will be Six (6) months.

15. Earnest Money Deposit:

Earnest Money is to be paid by each tenderer to ensure that the tenderer does not refuse to execute the work after it is awarded to him. EMD be furnished only in the form of Pay Order or Demand Draft in favour of BHEL, Trichy , EMD in any other form will not be accepted. The rate of earnest money deposit shall be as under:

Works costing up to Rs. 2 lakhs	NIL
Works costing more than Rs.2 lakh and up to Rs. 5 lakhs	Rs. 10000/-
Works costing more than Rs.5 lakhs and up to Rs.10 lakhs	Rs. 20000/-
Works costing more than Rs.10 lakhs and up to Rs.20 lakhs	Rs. 40,000/-
Works costing more than Rs.20 lakhs and up to Rs.30 lakhs	Rs. 60,000/-
Works costing more than Rs.30 lakhs and up to Rs.50 lakhs	Rs.1,00,000/-
Works costing more than Rs.50 lakhs and up to Rs.100 lakhs	Rs.1,50,000/-
Works costing more than Rs.100 lakhs	Rs. 2,00,000/-

One time EMD will also be Rs.2.00 lakhs.

EMD by the Tenderer will be forfeited as per tender Documents if:

- a) After opening the tender, the tenderer revokes his tender within the validity period or increases his earlier quoted rates,
 - b) The tenderer does not commence the work within the period as per LOI / Contract. In case the LOI / contract is silent in this regard then within 15 days after award of contract.
 - c) EMD given by all unsuccessful tenderers shall be refunded normally within fifteen days of acceptance of award of work by the successful tenderer.
 - d) EMD shall not carry any interest.
16. Should a tenderer or a contractor on the list of approved Contractors have a relative, or in the case or a firm or Company of contractors any of its share-holders or shareholder's relative, employed in a gazette capacity in the Engineering Department of the Bharat Heavy Electricals Limited, the authority inviting tenders shall be informed of this fact at the time of submission of the tender, failing which tender, may be disqualified or if such fact subsequently comes to light, the contract may be rescinded in accordance with the relevant provisions in the General Conditions of Contract.
 17. If tenderer expires after the submission of his tender or after the acceptance of his tender the BHEL may, at their discretion, cancels such tender. If a partner of a firm expires after submission of tender or after the acceptance of the Tender, BHEL may cancel such Tender at their discretion unless the firm retain its character.
 18. The Bharat Heavy Electricals Limited will not be bound by any power of attorney granted by the tenderer or by changes in the composition of firm made subsequent to the execution of the contract. They may however recognize such power of attorney and changes after obtaining proper legal advice the cost of which will be chargeable to the contract concerned.
 19. If the tenderer deliberately gives wrong information in his tender or creates conditions favorable for the acceptance of his tender, the Bharat heavy Electricals Limited, reserves the right to reject such tender at any stage.
 20. Words importing the singular number shall also be deemed to include the plural number and vice versa where the context so requires.
 21. The expenses for competing and stamping the agreement shall be paid by the contractor.
 22. The General and special conditions are complementary to each other and where they are conflict the Special Conditions shall prevail. In regard to matters not covered by the General and Special Conditions of Contract, those contained, those contained in the Tamil Nadu Building Practice Standard Specifications or other specifications approved by the Bharat Heavy Limited, Shall apply.
 23. Tenderers shall not increase their quoted rates in case the Bharat Heavy Electricals Limited, negotiates for negotiation for reduction of rates. Such negotiation shall not amount to cancellation or withdrawal of the original offer and the rates originally quoted shall be binding on the tenderes for a period of three months from the date of opening of tenders.
 24. Canvassing in any form in connection with tenders is strictly prohibited and the tenders submitted by the contractors who resort to canvassing will be liable to rejection
 25. All contractors will have to produce Income tax Clearance Certificate from the Income Tax– Officer concerned along with their tenders. Those Contractors whose income is not taxable will be required to give an affidavit of their income on the prescribed form. If the successful tenderer fails to produce the Income – tax clearance certificate within the stated period the Earnest Money Deposit and Security Deposit of the tenderer may be forfeited and the contract terminated.

TENDER NOTICE

NAME OF WORK :

Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.

ESTIMATED COST : Rs. 459.00 LAKHS applicable service tax

1. SEALED TENDERS for the above noted work are hereby invited from contractor experienced in works of similar kind and magnitude. Tenders will be received by **SR MANAGER/CIVIL/PLANNING(FACTORY)** Bharat Heavy Electricals Limited, Tiruchirappalli – 620 014. Up to 14.55 Hrs. on **14.06.13** and will be opened on the same day at 15.00 Hrs. at the **Office of the SR.MANAGER /CIVIL/ PLANNING (FACTORY)** in the presence of such of those tenderers. Or their agents who may choose to attend.
2. TENDER FORMS and other particulars regarding the proposed work can be obtained on any working day from 8.00 A.M. to 4.30 P.M. up to **13.06.13** on payment of the prescribed sum of Rs. 750 / - per set in person (Rs. 825/- if required by post) including Sales Tax in the form of Demand Draft Amount nor refundable.

In case of tender documents downloaded from website, tender shall accompany the tender cost of Rs.750/- in the form of Demand Draft (separate) in addition to the EMD amount in the form of Demand Draft. Tenders without tender cost will also be summarily rejected.

3. TENDERS must be submitted in sealed covers and should be addressed to the with full name and address of the tenderer and the name of work being noted on the cover
4. All entries in the tender documents should be in the one ink. Erasers and over writings are not permitted. All cancellations and insertions should be duly signed by the tenderer concerned.
5. TENDERERS should fill in all the required particulars in the blank spaces provided for this purpose in the tender documents and also sign each and every page of Tender Documents including the drawings attach there to before submitting their tender.
6. UNIT rate should be quoted in figures as well as in words with reference to each item and for all the items shown in the attached schedule. These rates shall be for the finished work in site. Amount of each item and the total page by page and also the grand total amount of the whole contract should be filled in by the tenderers. Unit rate quoted shall be the basis for arriving the total value of the tender. The total amount for every item shall be arrived by multiplying the unit rate with the quantity indicated for that item. In case of any arithmetic deviation is noticed in the total amount, the same will be corrected and evaluated by taking unit rate as basis and multiplying with the quantity indicated.
7. QUANTITIES shown in the attached schedule are only approximate and are liable to variation without entitling the Contractors to any compensation, provided the total value of the Contract does not vary by more than 20% (twenty percent)
8. In quoting their rates, the tenderers are advised to take account all factors including any fluctuations in the market rates etc. No claim will be entertained on this account after acceptance of the tender or during the currency of the contract.
9. Before tendering, the tenderers are advised to inspect the site of work and its environments and be well acquainted with the actual working and other prevalent conditions position of materials and labour, General and Special Conditions of Contract. Instructions to tenders, drawings and Specifications and all other documents which form part of the Agreements to be entered into.

10. The rates quoted in the tender shall remain valid for a period **SIX MONTHS** from the date of opening of tenders.
11. In the event of tender being submitted by firm the tender must be signed separately and legibly by each partner or member of the firm or in their absence, by the person holding the power of attorney on behalf of the firm concerned in the latter case a copy of the power of attorney duly attested by a Gazetted Officer must accompany the tender.
12. Every tender must be accompanied with EMD for the amount as specified in Page No. **20** in any of the form mentioned in Para 15 of the "Instruction to Tenderers". This Earnest Money will be refunded to the unsuccessful tenderers within fifteen days of finalization of the award of work. In case of the successful tenderer, the Earnest Money will be retained as part of the Security Deposit for satisfactory completion of the work in accordance with Clause 16 of the General Conditions of Contract

NOTE : Cheques, Currency Notes and Money Orders will not be accepted in lieu of the deposit receipt referred to above

13. Security Deposit

- 13.1 Security Deposit should be collected from the successful tenderer . The rate of Security Deposit will be as below:

Up to Rs. 10 lakhs	: 10%
Above Rs. 10 lakhs up to Rs.50 lakhs	: 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.

The security Deposit should be collected before start of the work from the contractor.

- 13.2 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.
- i) Securities available from Post Offices such as National Savings Certificates, Kisan Vikas Patras etc.
(Certificates should be held in the name of Contractor furnishing the security and duly pledged in favour of BHEL and discharged on the back).
- v) Bank Guarantee from Scheduled Banks / Public Financial Institutions as defined in the Companies Act. 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 of 10% from the running bills. However in such cases at least 50% of the Security Deposit should be collected before start of the work and the balance 50% may be recovered from the running bills.
- viii) EMD of the successful tenderer shall be converted and adjusted against the security deposit.
- ix) The security deposit shall not carry any interest.

NOTE: Acceptance of Security Deposit against Sl. No. (iv) and (vi) above will be subject to hypothecation or endorsement on the documents in favour of BHEL. However, BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith.

14. Unless the contractor whose tender is accepted signs the Contract Agreements and makes the necessary security deposit specified in Para 13 above within Seven days of the date of the order directing him to do so the amount of Earnest Money Deposit already deposited by him will be forfeited and acceptance of his tender withdrawn.
15. If after opening of tenderer revokes his tender or increases his earlier quoted rates or after acceptance of his tender does not commence the work in accordance with the instruction of the Engineer-in-charge, the Earnest Money deposited by him will be forfeited and acceptance of his tender withdrawn. If only a part of the work included in the tender had been awarded to the tenderer, the amount of Earnest Money to be forfeited will be based on the value of the contract so awarded.
16. The Bharat Heavy Electricals Limited reserve the right to reject any or all the received or accept any tender or part thereof without assigning any reason thereof. In the case acceptance of part of tender, time for completion may also be reduced to the extent considered appropriate by the Accepting Authority.
17. Conditional and Unwitnessed tenders, tender containing absurd rates and amounts tenders which are incomplete or otherwise considered defective and tenders not in accordance with the tender conditions laid down by the Accepting Officer are liable to be rejected.
18. Tenders not submitted on the prescribed form are liable to be rejected
19. The work must be completed within a period as mentioned in Page No. **20**.
20. The Chairman / General Manger / Deputy General Manager / Deputy Manager / Senior Engineer shall be Accepting Officer, herein after referred to as such for the purpose of this contract.
21. This tender notice shall be deemed to form an integral part of the contract to be entered into for this work.
22. The tenderers are advised to go through the condition stipulated in Tender document & code of conduct for 'Health & Safety of Contract Labourer' in details. Any violation thereof will invite punitive action being taken against them. While quoting the rate all the above factors are to be taken into account.

ISSUING OFFICER

GENERAL AND SPECIAL CONDITIONS OF CONTRACT

GENERAL CONDITIONS

1. No night work will be permitted without the written permission of the Engineer – in – charge.
2. Bulkage test on the sand to be used on the work should be conducted periodically to arrive at the correct quantity of sand to be mixed for the different proportions as and when required.
3. Items of work other than those mentioned in the Bill of Quantities (Tender Schedule) attached hereto will be carried out at the rates to be fixed by this organization as per relevant clauses of the General Conditions of Contract.
4. **The successful tenderer will have to make his own arrangements for water without any extra claims and water required for the work and drinking for the workmen shall be arranged by the successful tenderer.**
5. **The successful tenderer will have to make his own arrangements for Electrical energy without any extra claims and electrical energy required for the work and for other purposes shall be arranged by the successful tenderer. The successful tenderer shall make leak proof / fire proof shed and provide control panel board of required capacity and lay the required cables at their own cost for further distribution to other required area of work.**
6. **The successful tenderer should be in a position to make his own arrangement for compressed air without any extra claim for the uninterrupted operation of jack hammer with silencer.**
7. Permission for erection of temporary work sheds etc., at site will have to be obtained from BHEL – PEFP Project Site Engineer-in-charge in writing in advance.
8. The works contract to be entered into with the successful tenderer will be governed by the BHEL revised General Conditions of Contract in force.
9. The successful tenderer / Contractor shall observe all safety regulations and take necessary safety precaution as called for under the “BHEL General Conditions of Contract and Safety Precautions” enclosed herewith.
10. In all matters of dispute, the decision of the General Manager, Bharat Heavy Electricals Ltd., Tiruchirappalli – 620 014. shall be final and binding on the tenderer / contractor.
11. Some changes are likely in the quantities furnished as well as in the layout, design and specifications of the work. The rate quoted shall be deemed to be inclusive of all such contingencies.
12. All the materials to be used in the work and nature of work shall conform to respective TNBP, IS and National Buildings Organisation Standard Specifications and shall be got approved by the Engineer – in – charge before actual incorporation in the work

SPECIAL CONDITIONS

1. The Contractor should maintain proper accounts of cement, MS rods / CTD bars, structural steel sections and other materials if any supplied by this organization and these should be available at the site of the work for verification and check by the official of this organization at any time.
2. All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work
3. The Manager / Civil or his duly authorized representative shall have all reasonable times access to Contractor's premises of work and shall have the power at all the reasonable times to inspect and test any portion of the work or examine the materials and workmanship of the structures during their manufacture and test. The contractor shall give due notice in writing to the Inspecting Engineer of BHEL when the materials supplied to be incorporated in the work are ready for Inspection and test. No material shall be incorporated in the work until the inspecting Engineer certified in writing that such materials have been inspected and approved by him.
4. The Contractor shall closely scrutinize all the drawings issued in connection with the work by this organization and bring to the notice of the Engineer-in-charge if any discrepancies, omissions in the drawings before undertaking the actual work pertaining thereto.
5. The contractor should submit in advance every fortnight a detailed programme of work to be undertaken from time to time strictly in conformities with the "Time and Progress Chart" covering the entire constructed work and reschedule them wherever necessary during the progress of the work so as to achieve the target set. Periodical progress reports of every fortnight should also be furnished by the Contractor and other relevant information as asked for by the Engineer-in-charge and other BHEL Officers-in-charge of the work.
6. The contractor should extend full co-operation to the other contractors who may be doing other works in the same areas to enable them to execute their portions of work without any delay or difficulty.

The correspondence exchanged against the tender from both tenderer and BHEL through email are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business.

Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

In case Letter of Intent (LOI) is issued through email, the PC generated time and date of mail shall be construed as the official time and date of release of LOI. In as much as this date is within the last date of validity given by the bidder the LOI is said to have been issued within the validity period and shall be binding on both the parties to the business.

Tenderers participating in the tender should declare in their technical bid that whether they have been black-listed / kept on hold for a specified period / given Business holiday for a specified period by any Public sector undertaking or Government departments. The reasons for such action with details and the current status of such hold shall be clearly furnished to BHEL. If no such details are mentioned in the offer then it will be construed that the subject bidder is not under any such hold. But at a later date if it comes to the notice of BHEL about any such hold under enforcement on the subject bidder, BHEL will have every right to reject the offer of such vendors at any point of time and also under any stage of the finalization of the subject tender irrespective of the status of the subject bidder in that tender. Such bidders will not be permitted to participate in the further tender proceedings and will be communicated suitably. They will not be also considered for any on-going tenders even if participated till the hold is officially lifted and confirmed in writing.

Force Majeure clause: If at any time during the continuance of this contract the performance in whole or in part by either party of any obligations under this contract shall be prevented or delayed by reason, of any war, hostilities, acts of the public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine, restrictions or acts of GOD (hereinafter referred to as events) then provided notice of happening of any such events is given by either party to other within twenty one days from the date of occurrence thereof neither party shall reason of such events be entitled to terminate this contract nor shall either party have any such non-performance and delay is resumed as soon as practicable after such events has come to an end or ceased to exist. If the performance in whole or part of any obligation under this contract is prevented or delayed by reason or any such event claims for extension of time shall be granted for period considered reasonable by BHEL subject to prompt notification by the tenderer to BHEL of the particulars of the events and supply to the BHEL if required of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed to be a waiver of time in respect of remaining deliveries.

Terms and conditions regarding cement, reinforcement steel and structural steel

The tender value includes cost of cement, reinforcement steel & structural steel but excludes service tax.

Supply of materials like cement, reinforcement steel, structural steel, etc. are also included in the scope of the contractor.

The supply of cement, reinforcement steel and structural steel for the works by the tenderer should meet the minimum requirements as stipulated in the relevant IS codes.

Cement:

Ordinary Portland cement 43 grade meeting the requirements as per IS 8112 -1998 or latest specifications shall be supplied and used in the works after getting approval from the Site Engineer-in-charge.

Recommended Brand: ACC / Ultratech / Birla cement / Ambuja cement

The recommended brand also should meet the IS requirements. The supply should accompany the Test Certificates meeting out the IS requirements. If warranted, the Site Engineer-in-charge may require to retest the cement at any point of time to verify the strength at the contractor's risk and cost. The contractor should plan and store the cement in standard manner and such a way and to meet the site requirement.

The cement consumption / adequacy is furnished as annexure in the tender document. The adequacy provided is inclusive of all wastages. The contractor is expected to use the exact requirement of cement in order to maintain the quality of work and required strength of the cement product / work. The allowance for wastage of cement shall be taken care in the quoted rates for the items provided in the BOQ.

Reinforcement steel and Structural steel:

Reinforcement steel meeting the minimum requirements as per IS 1786 in straight lengths except 6mm rod which is of mild steel (as per IS 432 – Part I) Fe 415 / Fe 500 grade shall be supplied and used in the works after getting approval from the Site Engineer-in-charge.

The allowance on invisible wastage for cutting and scrap should be taken care by the contractor in the quoted rate and the exact measurements of the reinforcements incorporated into the works only will be accounted and billed for payment.

All Structural steel like angle, channels, beams, gusset plates, web plates, etc. meeting the minimum requirements as per IS 2062 Grade - E250 A/B/C shall be supplied and used in the fabrication after getting approval from the Site Engineer-in-charge.

The contractor has to submit the Drawing Office Dispatch List for the structural steel consumed in the fabrication and erection works separately and the payment will be made for the quantum of work done as per Drawing Office Dispatch List only. The allowance on invisible wastage for cutting and scrap should be taken care by the contractor in the quoted rate.

The quoted rate shall include all such contingencies. However, the contractor is expected to maintain proper accounts for material tallying.

Recommended Brand: SAIL / RINL / JSPL / TISCO / ESSAR Steel / ISPAT

The recommended brand also should meet the IS requirements. The supply should accompany the Test Certificates meeting out the IS requirements. If warranted, the Site Engineer-in-charge may require to conduct the test at any point of time to verify the strength at the contractor's risk and cost.

The contractor should store all the materials brought inside the BHEL – PEFP Project site / complex for the works in proper stock yard to handle them in an easy manner and safe custody of contractor. BHEL will not be responsible for any loss / theft of contractors' material brought for the works.

The contractor should maintain proper accounts for cement, reinforcement steel and structural steel sections and other materials and these should be available at the site of work for verification and check by the Officials of this Organization at any time.

All materials brought by the Contractor for incorporation in the work shall be got inspected and approved by the Engineer-in-charge before they are incorporated in the work.

All the structural works including fabrication, erection etc., are subjected to inspection and clearance by BHEL or Third Party Agency as fixed by BHEL.

The contractor should use only the materials of brand and quality as approved by BHEL.

All materials and consumables brought by the contractor should have manufacturer's Test certificates.

For the materials supplied to BHEL works, all taxes including increase / revision in taxes (except service tax) shall be absorbed by the contractor. No extra claim on this account will be entertained. The quoted rate shall include all such contingencies

NOTE:

No advance / mobilization advance will be given and the part-payment or advance for raw materials brought by the successful tenderer will not be paid. The payment for the finished items of works only will be paid after incorporating the required raw materials into the work, if any.

GENERAL SAFETY PRECAUTIONS TO BE FOLLOWED AT WORK SITE DURING EXECUTION

The following safety measures should be strictly adhered to during execution of works at sites.

1. Providing the working platform with toe board and handrail for continuous working at heights.
2. Providing safety belt and life line at all times for men working at heights.
3. Providing dust or fume respirator in places where dust and fume concentration exists.
4. Providing goggles and welding screens.
5. Providing acid and alkali proof rubber gloves for handling acid and alkali and chemical which are corrosive.
6. Providing rubber gloves for working on electrical works.
7. Ensuring proper lashing of the components while being transported in vehicles.
8. The vehicles must have side supports or have body to support the materials conveyed.
9. The materials should not be allowed to extend or overflow the sides of the vehicles.
10. Materials should not be allowed to overhang from the rear edge of the body of the vehicle.
11. Driver of the vehicle must possess license.
12. Vehicle must not be overloaded prescribed limits.
13. Red flags and lights for parts projecting from the body of vehicle must be provided.
14. The speed restrictions within the factory premises must be strictly adhered to.
15. The gas cylinders must be always handled on trolleys or kept tied down not in use. They should never be rolled as Roller for conveying.
16. Cylinders should not be used without regulators.
17. All excavations must be barricaded and red lamps must be provided.
18. All electrical connections must be properly earthed.
19. No work should be taken up for execution inside shop floor, without obtaining necessary work permit.
20. Providing helmet, safety belt, etc., for high level work and sufficient number of Industrial Safety nets at appropriate level to safeguard the persons working at high level particularly in trusses, girders, roofing etc., of industrial and high roof buildings.
21. The contractor should maintain a register regarding the driver license particulars.
22. All personal protective equipment conform with standard specification as per the details given in the code of conduct.

Contractor including their sub contractors, agents and labour engaged on the work are required to scrupulously adhere to the safety regulations, safety precautions and measures. Any violation thereof will invite punitive action being taken against them. Also contractors with frequent violations of safety regulations will not be entrusted with further work in this organization.

CONTRACTOR

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ACCEPTING OFFICER

SAFETY PRECAUTIONS TO BE OBSERVED WHILE TRANSPORTING MATERIALS

I. VEHICLE

1. Vehicles carrying material should have proper registration documents and must be produced on demand by our Security Staff.
2. The light on right side, i.e., over the drivers cabin shall be in working condition.
3. Both the head lights as well as park lamps must be in working conditions.

II. MOVEMENT OF VEHICLE

1. The vehicle should not travel at more than 20 km.ph in our premises.
2. The Driver of the vehicle must possess heavy duty licence and produce on demand by the Security Staff.
3. Vehicles carrying inflammable liquids in the tank containers should have grounding chain or the tank should be coated with insulating material also to avoid Static Electricity.
4. In road junctions, speed breakers and railway crossing, the speed should be lowered and vehicle should proceed cautiously.
5. The driving should 'KEEP TO THE LEFT' at all places.
6. The vehicle should not be parked in road which could obstruct the vehicular traffic.
7. No person other than driver should be allowed to sit or stand on the prime mover or trailer.
8. The vehicle should pass only through the approved routes. Short cuts should be forbidden.
9. There must be a safe distance behind another moving truck.
10. The driver should avoid making quick starts, jerky stops or quick turns at excessive speed.

III SHIPPING

1. Strong side supports should be provided on both sides of the trailer. The side supports should be fixed in such a way that it cannot be removed even temporarily.
2. Adequate packing must be given for easy slinging operation. The packing materials should be good enough to withstand the load.
3. The stacking of loads in the truck should be evenly placed. The load should not be heaped together or dumped over the chassis.
4. The loaded materials should be fastened tightly with 'WIRE ROPE'. Manila rope or coir rope should not at all be used. There must be side packing such as gunny or rubber tyre between the sharp edge of the job and wire rope in order to avoid cut in the wire rope.
5. There must be minimum two fastenings and it should be more in case of lengthier loads.
6. The wire rope should be in sound conditions i.e, there should not be links, knots or bristles etc.,
7. The wire rope ends should be clamped with 'U' clamps.
8. The load on the truck should not be beyond its standard capacity. The carrying capacity must be clearly marked on the trailer also.
9. The loose pieces should be bundled before loading on the truck.
10. There must be red flags or red lamps for the lengthy loads which extend beyond chassis.
11. The load should not be over hanging more than 3 ft. from the end of the body.
12. The materials should not be stacked too high to avoid hitting against live electric lines.
13. While transporting the scraps, there must be wire knitting cover to prevent falling of scrap.

IV GENERAL

The vehicles should not be moved directly inside the production building in case the materials are to be unloaded there. But the vehicle should be parked outside the building and the driver should ascertain the passage as well as the unloading points with the help of shop officials. This will avoid the congestion of blocking of traffic in the gangway.

TERMS AND CONDITIONS REGARDING COMPLIANCE WITH VARIOUS LABOUR LAWS BY THE CONTRACTORS FOR BHEL

1. The Contractor shall not employ in connection with the work any person who has not completed 18 years of age.

2. The Contractor shall in respect of labour employed by him either directly or through subcontractors, comply with or cause to be complied with the following statutory provisions and rules and in regard to all matters provided therein.

- a) The Contract Labour (Regulation & Abolition) Act 1970 and the related Maharashtra State Rules.
- b) The Minimum Wages Act 1948 and the related Maharashtra State Rules.
- c) The Payment of Wages Act 1936 and the related Maharashtra State Rules.
- d) The Factories Act 1948 and the related Maharashtra State Rules.
- e) The Employee's Provident Fund & Miscellaneous Provisions Act 1952.
- f) The Employees State Insurance Act 1948.
- g) The Workmen Compensation Act 1923.
- h) The Industrial Disputes Act 1947.
- i) **The Payment of Bonus Act 1965.**
- j) **BOCW Act.** 1996 and rules of 1998, etc.

and any other law or modifications to the above or to the Rules made thereunder from time to time.

REGISTRATION AND LICENSING

3. Every Contractor shall register his name with the Welfare Section of BHEL - PEFP Project site before taking up the work awarded to him by giving the following information and getting a Code Number :

- a) The Name of the Contractor
- b) Nature of Contract Work
- c) Period of work
- d) Number of maximum labour employed by him on any one day
- e) License No. & Date (Applicable in case of contractor employing 20 or more workers)
- f) Whether enrolled for PF, ESI, etc., and enrolment No.

This information is called for, for the purpose of informing the Inspectorate of Factories whenever they call for information regarding contracts.

4. The Contractor employing 20 or more workmen is required to obtain license from the authorities (The Deputy Chief Inspector of Factories / Assistant Commissioner of Labour as the case may be). The license shall be amended and / or renewed wherever, there is an increase in the workmen employed by him or in the event of contract being extended or renewed. The Contractor shall inform the licence number to the BHEL Management before taking up the work.

5. The Contractor (Licensed or unlicensed) shall promptly furnish every information and document required by BHEL authorities for the purpose of fulfilling their obligations as Principal Employer and / or Occupier of the Factory and shall render all necessary assistance for the same.

WAGES

6. The tenderer has to ensure payment of Minimum Wages as per Maharashtra State Minimum Wages including its periodical revision as applicable under law from time to time.

The labourers engaged in this contract shall be paid additional payment as mentioned below in addition to the payment of Minimum wages as stated above.

d) Unskilled Worker	Rs. 2000 per month
e) Semi-skilled Worker	Rs. 2300 per month
f) Skilled Worker / Supervisor	Rs. 2500 per month

Also the labourers shall be paid a minimum bonus which shall be 8.33% as per the payment of Bonus Act 1965 for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.

The Contractor shall have to remit EPF & ESI contributions at the rates applicable under law to the authorities concerned for the total wages paid (i.e) Payment of minimum wages and additional payment as mentioned above.

7. The Contractor shall fix wage periods in respect of which wages shall be payable. No wage period shall exceed one month.

8. The Contractor shall ensure payment of wages to the contract labour employed by him within three days from the end of wage period in case the wage period is one week or a fortnight and in all other cases before 10th day of the following month.

9. All Payment of wages shall be made on working days at the work site and during the working time and on date notified in advance. In case the work is completed before the expiry of the wage period final payment shall be made within 48 hours of the last working day.

10. Where the employment of any worker is terminated by or on behalf of the Contractor, the wages earned by him shall be paid before the expiry of the second working day from the day on which his employment is terminated.

11. Wages due to every worker shall be paid to him direct or to the person authorized by him in this behalf. All wages shall be paid in current coin or currency in both.

12. The Contractor shall ensure the disbursement of wages in the presence of such authorized representative of BHEL Management.

13. The above payment shall be verified by the authorized officer / representative of BHEL with the following certificate of the payment sheet "Certified that the amount shown in Column No..... has been paid to the workmen concerned in my presence onat....."

14. A certificate of payment shall be furnished in duplicate by the Contractor to the Engineer in charge each month in Form 'A'.

15. A notice showing the wage period and the place and time of disbursement of wages shall be displayed at the place of work and a copy to be sent to the Welfare Department by the Contractor under acknowledgement.

16. Notices showing the rate of wages, weekly rest days, hours of work, wage period, date of payment of wages, names and addresses of the Inspector having jurisdiction, the date of unpaid wages shall be displayed in Tamil and English in conspicuous places at the establishment and at work site by the Contractor. The Contractor shall inform the BHEL Management every month the details of contract labour engaged for contract in this following form :

- a) Serial Number
- b) Location
- c) Period of work
- d) No. of contract labour engaged during the month
- e) No. of days worked
- f) No. of men worked
- g) Wages paid to workers

The above statement shall be furnished to BHEL Management at the end of every month.

REGISTERS AND RECORDS AND COLLECTION OF STATISTICS

17. The following documents / formats under Contract Labour (Regulation & Abolition) Act 1970 and Maharashtra State Government Rules thereunder shall be maintained by each contractor.

- a) Register of persons employed by the Contractor
- b) Employment Card
- c) Service Certificate
- d) Muster Roll, Wage Register, Deduction Register, Wage slip, Overtime Register, Register of Fines, Register of Advances etc.,

18. The Contractor shall display the abstract of the Contract Labour (Regulation&Abolition) Act and the Rules thereunder both in English and Tamil.

19. Half yearly Return shall be sent by the Contractor in duplicate to the Licensing Officer.

20. The Contractor shall submit the returns required under the Contract Labour (Regulation & Abolition) Act 1970 periodically to BHEL Management.

21. The Contractor shall without fail give upto date information in writing of the attendance of the workers employed by him.

22. The Contractor shall ensure that his workers keep and produce their Employment Card when coming to duty and take them back when leaving duty.

23. All the above registers and records shall be preserved in original for a period of three years. All the registers, records and notice maintained under the Act and rules shall be produced on demand by Inspector or any authority under the Act.

WORKING HOURS AND WORKING CONDITIONS

24. No worker shall be required or allowed to work on Sunday unless he has or will have a holiday on anyone of the three days before or after the said day.

25. The Contractor shall inform BHEL Management in the prescribed form details of the contract workers scheduled to work on Sunday, the day of rest and also indicate the substituted holiday in lieu thereof. This shall be intimated two days in advance before his workmen are booked for work on Sunday.

26. The contract labour working for more than nine hours in any day or for more than 48 hours in any week shall be paid wages at the rate of twice the ordinary rate of wages in accordance with the provisions of Sections 59 of the Factories Act 1948.

27. The Contractor shall provide all safety devices and personal protective equipment to his workmen at his own cost and shall ensure that his workmen wear / use such devices or equipment provided to them while doing the work and there should not be any relaxation on this.

28. The Contractor shall give four paid National Holidays to his workers, viz., 26th January, 1st May, 15th August and 2nd October.

29. The Contractor shall ensure that his workmen vacate the premises after the shift is over.

30. The Contractor shall give leave with wages to his workmen who have worked for a period of 240 days or more in the Factory premises during a calendar year. This leave shall be allowed during the subsequent calendar year at the rate of one day for every 20 days of work performed by the worker during the previous calendar year. The worker whose services commences on a day other than the first of January shall be entitled to leave with wages at the above rate (One day for every 20 days of work) only if he had worked for a minimum of 2 /3 of the total number of days in the remainder of the calendar year. This leave will be admissible only during the subsequent calendar year.

31. No woman worker shall be required or allowed to work in the Factory except between the hours of 6.00 A.M. and 7.00 P.M.

32. The Contractor shall comply with the provisions relating to Welfare and Health facilities as provided in the Contract Labour (Regulation and Abolition) Act 1970 read with the Maharashtra State Governments' Contract Labour Rules, if any.

NOTICE OF ACCIDENTS

33. Notwithstanding anything contrary to this, in the event of accident the contractor shall be required to fill injury report and submit the Engineer in charge immediately and ensure the compliances of ESI / Workmen's compensation Act, Factories Act and Rules made thereunder. He shall also maintain a register of accident as per the Act.

34. The Contractor shall get the contract labour engaged by him insured under Workmen's Compensation policy from General Insurance Corporation of India before actually starting the work of contract. The insurance coverage should be for the entire period of Contract. The Contract shall comply with the provisions of the Workmen's Compensation Act 1923. (This should be read in conjunction with the provisions of ESI Act)

COVERAGE UNDER THE ESI ACT / PF AND MISCELLANEOUS PROVISIONS ACT

35. The contractor shall ensure that all his workmen are covered under the Employee's State Insurance Act and produce to BHEL such Registration Number / Enrolment Number before executing the contract work.

36. The Contractor shall regularly pay the amount of contribution. i.e., employer's contributions as well as employees' contribution pursuant of the above scheme as fixed from time to time. The Contribution payable presently is 1.75% wages to be recovered from his workmen and 4.75% of wages to be contributed by the Contractor. Contributions recovered from employee and contribution made by the contractor may be rounded to the next higher multiples of five paise.

37. The Contractor shall take note of any amendment that may be brought forth in the above contribution rate and act accordingly.

38. The contractor shall ensure that his workmen are covered under the EPF & Miscellaneous Provisions Act 1952 and accordingly produce to the BHEL Management the registration / enrolment number before awarding of contract work. As per the existing provisions every worker shall be entitled and required to become a member of the fund. The employee's contribution payable at present is 12% of wages which will be recovered by the contractor from the wages of his workmen and the contractor should pay equal contribution. The contractor is also liable to pay any administrative charges in this behalf that may be decided from time to time. It will be the responsibility of the contractor to ensure such contribution payable in respect of workmen employed through sub-contractors also.

39. The Contractor shall take note of any amendment in the rate of contribution payable under the scheme from time to time.

40. The Contractor shall within seven days of the close of every month submit to BHEL a statement showing the amount of contribution payable / paid for employees engaged by him or through him and shall also furnish to BHEL such information as Principal Employer is required to furnish under the provisions of the ESI Act and PF as well as the schemes made thereunder to the authorities concerned.
41. Whenever any sum of money is found to be recoverable from or payable by the contractor under the above Act, the sum shall be deducted from any sum that may be due or which at any time thereafter may become due to the Contractor under this contract or under any other contract or from his security deposit. In case the recoveries are not sufficient to satisfy the claim, the contractor shall pay the balance thereof on demand. In case any recoveries are made under this clause from security deposit, the contractor shall immediately thereafter pay such further sums as may be required to replenish the shortage caused by such recoveries in amount of security deposit.
42. The Contractor shall abide by all the labour and other laws applicable to contract labour / worker under this contract and shall at all times keep BHEL indemnified against all losses, claims, prosecutions under any law.
43. In case of non-compliance of any of the provisions of the Acts and in case BHEL having complied with the same, BHEL will be entitled to recover the same from the contractor / sub-contractor.
44. Non-exercise of any of the powers or rights available to BHEL hereunder or under any law, shall not in any way operate as waiver thereof.

Note : The Specimen forms for the following are available in BHEL.

- | | | | |
|----|-----------|---|--|
| 1) | Form 'A' | - | Payment Certificate |
| 2) | Form IV | - | Application for License |
| 3) | Form XIII | - | Register of Workmen employed by contractor |
| 4) | Form XIV | - | Employment Card |
| 5) | Form XV | - | Service Certificate |
| 6) | Form XVI | - | Muster Roll |
| 7) | Form XVII | - | Register of wages |
| 8) | Form XIX | - | Wagesli |

BHEL APPROVED BRANDS FOR THE FOLLOWING MATERIALS / ITEMS

Sl.No.	Material	Manufacturing Co.	Brand
1.	Synthetic Enamel Paint	Asian Berger ICI	Apcolite Luxol Dulux gloss
2.	Aluminium Paint	Berger	Berger Aluminium
3.	Interior Emulsion	Asian Berger ICI	Royale Luxol Silk Supercote
4.	Exterior Emulsion	Asian ICI	ACE Supercote
5.	Distemper	Asian Berger ICI	Tractor Bison Maxilite
6.	Cement Paint	Snowcem Agsarcem	Snowcem Agsarcem
7.	A.C. Sheets	Everest India Ltd. Hyderabad India Ltd. Visaka Industries Ltd. Ramco	Everest I Charminar Visaka Ramco
8.	G.I. Pipes	TATA Zenith TNT	TATA Zenith TNT
9.	PVC Pipes	Avonplast Finolex Truebore Vignesh	Avonplast Finolex Truebore Vignesh
10	Ordinary Portland Cement		ACC / Ultratech / Birla cement / Ambuja cement
11	Reinforcement steel and structural steel		SAIL / RINL / JSPL / TISCO

SCHEDULE 'A'

LIST OF WORKS AND PRICES

NAME OF WORK:

Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.

DETAILS & QUANTITIES of each item of work shown in the BILL OF QUANTITIES are only approximate and the same is attached as a separate excel file. They are given as a guide for the purpose of tendering only and are liable to variation and alteration of the Competent Authority. The work under each item as executed shall be measured and priced at the corresponding rate quoted by the contractor in the BILL OF QUANTITIES

Sl.No.	Description of work / supplied	Total amount of work / supplies (in figures and words)		Period of contract
		Rs.	Ps.	
1.	Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.	459,00,000/-		NINE (9) MONTHS

BILL OF QUANTITIES

Sl. No.	Appx. Qty.	Description of work	TNBP No.	Rate (Both in Unit fig & Words)	Amount	
					Rs.	Ps.

AS PER SEPARATE SHEETS ATTACHED CONTAINING 17 PAGES.

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CONTRACTOR

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ACCEPTING OFFICER

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPALLI -14

BILL OF QUANTITIES

NAME OF WORK: **Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharashtra State.**

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
1	1270.00	Earth work in excavation by mechanical means (Hydraulic excavator) / manual means in foundation trenches or drains (not exceeding 1.5 m in width or 10 sqm on plan) including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soil as directed, within a lead of 50 m. All kinds of soil.		Cum	
2	450.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5m in width or 10 sqm on plan including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. Ordinary rock.		Cum	
3	240.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5m in width or 10 sqm on plan including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. Hard rock (requiring blasting).		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
4	235.00	Excavation work by mechanical means (Hydraulic excavator)/ manual means in foundation trenches or drains not exceeding 1.5m in width or 10 sqm on plan including dressing of sides and ramming of bottoms, lift upto 1.5 m, including getting out the excavated soil and disposal of surplus excavated soils as directed, within a lead of 50m. Hard rock (blasting prohibited).		Cum	
5	40.00	Extra for every additional lift of 1.50m or part there of in excavation / banking excavated or stacked materials All kinds of soils		Cum	
6	20.00	Extra for every additional lift of 1.50m or part there of in excavation / banking excavated or stacked materials Ordinary / hard rock		Cum	
7	55.00	Supplying and filling in plinth with river sand under floors, including watering, ramming, consolidating and dressing complete.		Cum	
8	85.00	Filling available excavated earth (excluding rock) in trenches, plinth, sides of foundations etc. in layers not exceeding 20cm in depth, consolidating each deposited layer by ramming and watering, lead up to 50 m and lift upto 1.5 m.		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
9	6.50	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 20 mm nominal size)		Cum	
10	1360.00	Providing and laying in position cement concrete of specified grade excluding the cost of centering and shuttering - All work up to plinth level : 1:4:8 (1 cement : 4 coarse sand : 8 graded stone aggregate 40 mm nominal size)		Cum	
11	12.00	Providing and laying damp-proof course 40mm thick with cement concrete 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5mm nominal size).		Sqm	
12	5.00	Providing and laying in position specified grade of reinforced cement concrete, excluding the cost of centering, shuttering, finishing and reinforcement- All work upto plinth level: 1:1.5:3 (1 cement : 1.50 coarse sand 3 graded stone aggregates 20mm nominal size.		Cum	
13	60.00	Reinforced cement concrete works in walls including attached pilasters, buttresses, plinth and string courses, fillets, columns, pillars, piers, abutments, posts and struts, etc., up to floor V level excluding cost of centering, shuttering, finishing and reinforcement. 1:1.5:3 (1 cement : 1.50 coarse sand 3 graded stone aggregates 20mm nominal size.		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
14	6000.00	Centering and shuttering including strutting, propping etc., and removal of form work for foundation, footings, bases of column etc., for mass concreting		Sqm	
15	140.00	Centering and shuttering including strutting, propping etc., and removal of form work for walls (any thickness) including attached pilasters, buttresses, plinth, string course etc.		Sqm	
16	125.00	Centering and shuttering including strutting, propping etc. and removal of form for : Suspended floors, roofs, landings, balconies and access platform.		Sqm	
17	22.00	Centering and shuttering including strutting, propping etc., and removal of form for : Lintels, beams, plinth beams, girders, bressumers and cantilevers.		Sqm	
18	1018.00	Providing, conveying, hoisting and fixing up precast reinforced cement concrete slabs with 1:2:4 (1 cement : 2 coarse sand : 4 graded stone aggregate 12.5 mm nominal size) of thickness 25mm to 75mm, including setting in cement mortar 1:3 (1 cement : 3 coarse sand), cost of required centering, shuttering and finishing with neat cement punning on exposed surfaces but excluding the cost of reinforcement and fabrication charges for the same as per the details provided in the drawing which will be paid under respective items.		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
19	1.00	Supplying Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete for all levels. Mild steel and Medium tensile steel bars.		MT	
20	210.00	Supplying Steel reinforcement for R.C.C. work including straightening, cutting, bending, placing in position and binding all complete for all levels. Thermo-Mechanically Treated bars.		MT	
21	15.00	Brick work with common burnt clay F.P.S (non modular) bricks of class designation 7.5 in cement mortar 1:4 in foundation and plinth.		Cum	
22	10.00	Brick work with common burnt clay F.P.S. (non modular) bricks of class designation 7.5 in superstructure above plinth level up to floor V level in all shapes and sizes in : Cement mortar 1:4 (1 cement : 4 coarse sand)		Cum	
23	430.00	Random rubble masonry with hard stone in foundation and plinth including levelling up with cement concrete 1:6:12 (1 cement :6 coarse sand: 12 graded stone aggregate 20mm nominal size) up to plinth level. In cement mortar 1:6 (1 cement : 6 coarse sand)		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
24	0.10	Providing wood work in frames of doors, windows, clerestory windows and other frames, wrought framed and fixed in position with hold fast lugs or with dash fasteners of required dia & length (hold fast lugs or dash fastener shall be paid for separately). Second class teak wood.		Cum	
25	2.00	Providing and fixing ISI marked flush door shutters confirming to IS 2202 (Part-1) decorative type, core of black board construction with frame of first class hard wood and well matched teak three ply veneering with vertical grains or cross bands and face veneers on both faces of shutters.35mm thick including ISI marked stainless steel butt hinges with necessary screws.		Sqm	
26	6.00	Providing and fixing ISI marked oxidised M.S. pressed butt hinges with necessary screws etc. complete. 125x65x2.12 mm		Each	
27	3.00	Providing and fixing aluminium tower bolts ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour or shade with necessary screws etc. complete : 150x10 mm		Each	
28	2.00	Providing and fixing aluminium hanging floor door stopper ISI marked anodised (anodic coating not less than grade AC 10 as per IS : 1868) transparent or dyed to required colour and shade with necessary screws etc. complete. Twin rubber stopper		Each	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
29	5.00	Providing and fixing factory made uPVC door frame made of uPVC extruded sections having an over all dimension as below (tolerance ± 1 mm) , with wall thickness 2.00mm (± 0.20 mm) , corners of the door frame to be jointed with galvanized brackets, stainless steel screws, joints mitred and plastic welded. The hinge side vertical of the frames reinforced by galvanized MS tube of size 19 x 19mm and 1mm (± 0.1 mm) wall thickness and 3 Nos. stainless steel hinges fixed to the frame complete as per manufacturers specifications and directions of Engineer-in-charge. Extruded section profile size 48 x 40mm .		RM	
30	2.50	Providing and fixing to existing door frames 25mm thick PVC flush door shutters made out of a one piece Multi chamber extruded PVC section of the size of 762mm x 25mm or less as per requirement with an average wall thickness of 1 mm (± 0.3 mm). PVC foam end cap of size 23 x 10mm are provided on both vertical edges to ensure overall thickness of 25mm.M.S. tube having dimensions 19mmx19 mm and 1.0 mm (± 0.1 mm) is inserted along the hinge side of the door. Core of the door shutter should be filled with High Density Polyurethane foam. The Top & Bottom edges of the shutters are covered with the end cap of the size 25mm x 11mm. Door shutters shall be reinforced with special polymeric reinforcement as per manufacturers specification and direction of Engineer-in-charge to take up necessary hardware and fixtures. Stickers indicating the location of hardware will be pasted at appropriate places.		Sqm	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
31	26500.00	Supply of Mild Steel sections such as channels, angles, T sections, flats, sheets, square bars, rods, tubes etc.at site of work and fabrication of steel work for gates, Y angles, purlins, trusses, any other small structures etc., all as per required design & drawing and erecting / fixing the same in proper alignment/position, level including site welding and or bolting/rivetting with necessary accessories such as keelmulai, keelpattai, hinges, tower bolts, aldrops etc. complete. Rate also includes providing two coats of synthetic enamel paint over one coat of red oxide primer. Payment will be made for the entire finished item of work.		Kg	
32	20.00	Providing and fixing 1st quality ceramic glazed wall tiles conforming to IS : 15622 (thickness to be specified by the manufacturer) of approved make in all colours, shades except burgundy, bottle green, black of any size as approved by Engineer-in-Charge, in skirting, risers of steps and dados over 12 mm thick bed of cement Mortar 1:3 (1 cement : 3 coarse sand) and jointing with grey cement slurry @ 3.3kg per sqm including pointing in white cement mixed with pigment of matching shade complete.		Sqm	
33	20.00	Providing and laying ceramic glazed floor tiles of size 300 x 300mm (thickness to be specified by the manufacturer) of first quality approved make confirming to IS:15622 of approved make in colours such as white,ivory,greys, fume red brown laid on 20mm thick cement mortar 1:4 (1 cement, 4 course sand) including pointing the joints with white cement and matching pigment etc., complete.		Sqm	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
34	5.00	Providing weathering course on top of roof slab with 40mm size brick jelly and pure lime (no sand) in the proportion of 32 : 12.5 to the required thickness, well beaten with wooden battens, so as to secure adequate slope, all as per standard specifications and instructions of Engineer-in-charge.		Cum	
35	40.00	Providing and laying pressed clay tiles (as per approved pattern 20 mm nominal thickness of approved size) on roofs jointed with cement mortar 1:4 (1 cement : 4 coarse sand) mixed with 2% integral water proofing compound laid over a bed of 20 mm thick cement mortar 1:4 (1 cement : 4 coarse sand) and finished neat complete.		Sqm	
36	10.00	Providing and fixing on wall face unplasticised rigid PVC rain water pipes confirming to IS 13592- Type A including jointing with Seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion single socketed pipes. 110mm dia.		RM	
37	2.00	Providing and fixing on wall face unplasticised PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes confirming to IS 13592- Type A including jointing with Seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion . Coupler-110mm dia.		Each	
38	5.00	Providing and fixing on wall face unplasticised PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes confirming to IS 13592- Type A including jointing with Seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion . Bend 87.5°-110mm dia.		Each	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
39	3.00	Providing and fixing on wall face unplasticised PVC moulded fittings / accessories for unplasticised rigid PVC rain water pipes confirming to IS 13592- Type A including jointing with Seal ring confirming to IS 5382 leaving 10mm gap for thermal expansion. Shoe (Plain)-110mm dia.		Each	
40	16.00	Plastering with cement mortar 1:4 and 12mm thick		Sqm	
41	250.00	Plastering with cement mortar 1:6 and 12mm thick		Sqm	
42	20.00	Ceiling plastering with cement mortar 1:3, 6mm thick at all levels as per standard specifications.		Sqm	
43	40500.00	Pointing on stone work with cement mortar 1:3 (1 cement: 3 fine sand) : Flush/ Ruled pointing		Sqm	
44	70.00	White washing with lime to give an even shade: New work (three or more coats)		Sqm	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
45	85.00	Painting two coats with exterior acrylic emulsion paint (ACE or any other equivalent and approved brand) of approved shade on surfaces at all levels to give an even shade including preparing the surfaces, removal of dirt, thorough cleaning by watering etc., all as per standard specifications. Rate includes cost of necessary plaster of paris and putty wherever required, labour and all incidentals etc. complete.		Sqm	
46	6.00	Polishing two coats with French polish including a coat of wood filler to give an even surface, including cleaning the surfaces of all dirt, dust and sand papered smooth, at all levels all as per standard specifications.		Sqm	
47	80.00	Distempering with 1st quality acrylic distemper, having VOC (Volatile Organic Compound) content less than 50 grams/ litre, of approved brand and manufacture, including applying additional coats wherever required, to achieve even shade and colour. Two coats.		Sqm	
48	85.00	Applying priming coats with primer of approved brand and manufacture, having low VOC (Volatile Organic Compound) content. With water thinnable cement primer on wall surface having VOC content less than 50 grams/litre.		Sqm	
49	785.00	Disposal of building rubbish/malba/similar unserviceable, dismantled or waste materials by mechanical means, including loading, transporting, unloading to approved municipal dumping ground or as approved by Engineer-in-charge, beyond 50 metres initial lead for all leads including all lifts involved.		Cum	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
50	400.00	Precasting and fixing in position of reinforced cement concrete (1:2:4) fencing post (using 12 to 20 mm size hard broken granite stone jelly) of size 200 x 200 x 3700 mm of which 800 mm (approx.) will be embedded in cement concrete base below ground level. Rate includes making necessary groove arrangements on two sides of post for inserting 50 mm thick precast slabs, casting, embedding 'Y' angle with necessary lugs, finishing, curing, conveying the posts including all lead, erection in position by embedding in foundation concrete up to a depth of 800 mm (approx.) below ground level true to plumb, line, level etc., complete, all as per drawings and as per instructions of Engineer in charge. Rate excludes cost of excavation, concrete base, shuttering for precast post, precast slabs and it's inserting/fixing charges, fabrication charges for reinforcement and 'Y' angle which will all be paid separately under respective items.		Cum	
51	1.00	Providing and fixing water closet squatting pan (Indian type W.C.pan) with 100mm sand cast iron P or S trap, 10 litre low level flushing cistern, including flush pipe, with manually controlled device (handle lever) conforming to IS :7231, with all fittings and fixtures complete, including cutting and making good the walls and floors wherever required: White vitreous china Orissa pattern W.C.pan of size 580 x 440mm with integral type foot rests.		Each	
52	1.00	Providing and fixing wash basin with C.I. brackets, 15 mm C.P. brass pillar taps,32 mm C.P. brass waste of standard pattern, including painting of fittings and brackets, cutting and making good the walls wherever require : White Vitreous China flat back wash basin size 550x400 mm with single 15 mm C.P. brass pillar tap.		Each	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
53	1.00	Providing and fixing 600 x 450mm beveled edge mirror of superior glass (of approved quality) complete with 6mm thick hard board ground fixed to wooden cleats with cp brass screws and washers complete.		Each	
54	2.00	Providing and fixing PTMT towel rail complete with brackets fixed to wooden cleats with CP brass screws with concealed fittings arrangement of approved quality and colour. 600mm long towel rail with total length of 645mm, width 78mm and effective height of 88mm, weighing not less than 190 grams.		Each	
55	1.00	Providing and fixing trap of self cleansing design with screwed down or hinged grating with or without vent arm complete including cost of cutting and making good the walls and floors. 100mm inlet and 75mm outlet sand cast iron S &S as per IS - 1729.		Each	
56	5.00	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 15 mm dia. nominal bore		RM	
57	20.00	Providing and fixing G.I. pipes complete with G.I. fittings and clamps, i/c cutting and making good the walls etc. 20 mm dia. nominal bore		RM	
58	25.00	Providing and laying G.I pipes and specials (B-Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 20 mm dia. nominal bore.		RM	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
59	10.00	Providing and laying G.I pipes and specials (B-Class) of approved brand with G.I fittings in trenches. (External work) Earth work excavation for trenches and refilling will be paid separately. 40 mm dia. nominal bore.		RM	
60	2.00	Providing and fixing C.P brass long body bibcock of approved quality confirming to IS standards , weighing not less than 690 grams. 15mm nominal bore		Each	
61	1	Providing and fixing CP brass stop cock (concealed) of standard design and of approved make confirming to IS 8931. 15mm nominal bore.		Each	
62	114020	Providing and fixing GI barbed wire weighing 9.38 kg/100metres (minimum) for fencing including unwinding the coil and fixing in position with proper tension and alignment by means of providing GI staples on wooden plugs 'or' GI binding wire tied to 6mm bar ribs provided in the posts etc. complete.		RM	
63	10	Hire charges for engaging earth moving machinery (pockline) to attend to channeling works at river bed, pipe line burst works, cleaning the areas including uprooting thorny plants/heavy jungles/trees etc.of all heights and leveling the areas thereafter including all debris etc., all as per instructions of Engineer-in-charge. Rate includes hire, fuel, operation charges, to and fro charges for machinery, all labour and all other incidentals etc., complete.		Hour	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
64	5	Providing and fixing in position of brass wheel valve / gate valve of approved brand with C.I wheel etc. complete. (ISI marked) 15-25mm nominal bore.		Each	
65	75	Providing and laying non pressure NP2 class (Light duty) RCC pipes, with collars jointed with stiff mixture of cement mortar in the proportion of 1:2, (1 cement : 2 fine sand) including testing of joints, etc., complete. 600mm dia RCC pipe.		RM	
66	60	Providing and laying non pressure NP2 class (Light duty) RCC pipes, with collars jointed with stiff mixture of cement mortar in the proportion of 1:2, (1 cement : 2 fine sand) including testing of joints, etc., complete. 900mm dia RCC pipe.		RM	
67	60	Providing and laying non pressure NP2 class (Light duty) RCC pipes, with collars jointed with stiff mixture of cement mortar in the proportion of 1:2, (1 cement : 2 fine sand) including testing of joints, etc., complete. 1200mm dia RCC pipe.		RM	
68	20	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately). For fixed portion Powder coated aluminium (minimum thickness of powder coating 50 micron).		kg	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
69	16	Providing and fixing aluminium work for doors, windows, ventilators and partitions with extruded built up standard tubular sections/ appropriate Z sections and other sections of approved make conforming to IS: 733 and IS: 1285, fixing with dash fasteners of required dia and size, including necessary filling up the gaps at junctions, i.e. at top, bottom and sides with required EPDM rubber/ neoprene gasket etc. Aluminium sections shall be smooth, rust free, straight, mitred and jointed mechanically wherever required including cleat angle, Aluminium snap beading for glazing / paneling, C.P. brass / stainless steel screws, all complete as per architectural drawings and the directions of Engineer-in-charge. (Glazing, paneling and dash fasteners to be paid for separately) : For shutters of doors, windows & ventilators including providing and fixing hinges/ pivots and making provision for fixing of fittings wherever required including the cost of EPDM rubber / neoprene gasket required (Fittings shall be paid for separately). Powder coated aluminium (minimum thickness of powder coating 50 micron).		kg	
70	10	Providing and fixing glazing in aluminium door, window, ventilator shutters and partitions etc., with EPDM rubber / neoprene gasket etc., complete as per the architectural drawings and the directions of Engineer in charge. (Cost of aluminium snap beading shall be paid in basic item): With float glass panes of 4.0 mm thickness		Sqm	

CONTRACTOR

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ACCEPTING OFFICER

Sl. No.	Quantity	Description of work	Rate (both in figures and in words)	Unit	Total Rs. P.
71	2.5	Providing and fixing anodised aluminium grill (anodised transparent or dyed to required shade according to IS: 1868 with minimum anodic coating of grade AC 15) of approved design/pattern, with approved standard section and fixed to the existing window frame with C.P. brass/ stainless steel screws @ 200mm centre to centre, including cutting the grill to proper opening size for fixing and operation of handles and fixing approved anodised aluminium standard section around the opening, all complete as per requirement and direction of Engineer-in-charge. (Only weight of grill to be measured for payment).		kg	
			TOTAL	..	
(RUPEES ONLY)					

NOTE 1. Supply of materials like cement, reinforcement steel, structural steel, etc. are included in the scope of the contractor.

2. The adequacy of cement for the items provided in the Bill of Quantities shall be as per the coefficient for cement consumption given in CPWD DSR 2012. (Refer Page No. 389 to 423).

CONTRACTOR

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ACCEPTING OFFICER

SCHEDULE 'B'

1. No materials will be issued FREE of cost to contractor at BHEL Stores / Stock yard.

SI.No.	DESCRIPTION	PLACE OF ISSUE
---	-----NIL-----	-----

SCHEDULE 'C'

ISSUE OF TOOLS AND PLANTS TO CONTRACTORS

Sl.No.	Qty.	Particulars	Details of BHEL Crew Supplied	Hire Charges Per unit Per Day	Place of Issue	of	Remarks
.....Nil.....							

SCHEDULE 'D'

NOTE : All Drawings are to be signed by the Contractor as well as the officer entering into contract.

SL.No.	DRAWING NUMBER	DESCRIPTION
1	0-TP-CEG-00982	DETAILS OF RCC COMPOUND WALL
2	9-TP-CEG-01121	LAYOUT SHOWING THE PROPOSED RCC COMPOUND WALL

The above drawings are enclosed in the Price Bid.

SCHEDULE 'E'

LEAD STATEMENT

Sl.No.	Name of Material	Name of Source	Lead Particulars both for Factory and Township
	----NOT APPLICABLE----		

Contract Agreement No.....

TENDER

To

The SR.MANAGER/CIVIL/FACTORY (PLANNING)
Bharat Heavy Electricals Limited
Unit : Tiruverumbur
TIRUCHIRAPPALLI – 620 014.

I / We hereby offer to carry out the work of **“Construction of RCC compound wall, security bunk, culverts, etc. along the boundary for the Power Equipment Fabrication Plant near Sakoli, Bhandara district in Maharastra State.”**

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

1. Specifications (General & Particular)
2. Drawings
3. Schedule 'A', 'B', 'C', 'D' & 'E' and Bill of Quantities attached hereto.
4. Schedule or rates
5. BHE Ltd., General & Special Conditions of Contract, Tender Notice and Instructions to Tenders attached hereto.

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

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

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

WITNESS

Signature of the Contractor

Date :

1.
2.

GENERAL SUMMARY

1.	(a) Net Cost of works or building etc., from Schedule 'A' and Bill of quantities annexed thereto	Rs.
2.	Provisional sum	Rs.
	Total Rs.

Rupees.....

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

(in block letters)

Date :

SIGNATURE OF CONTRACTOR

Witness :

Postal Address :

1.....
Address

Telephone No.

2.....
Address

CONTRACTOR

ACCEPTING OFFICER

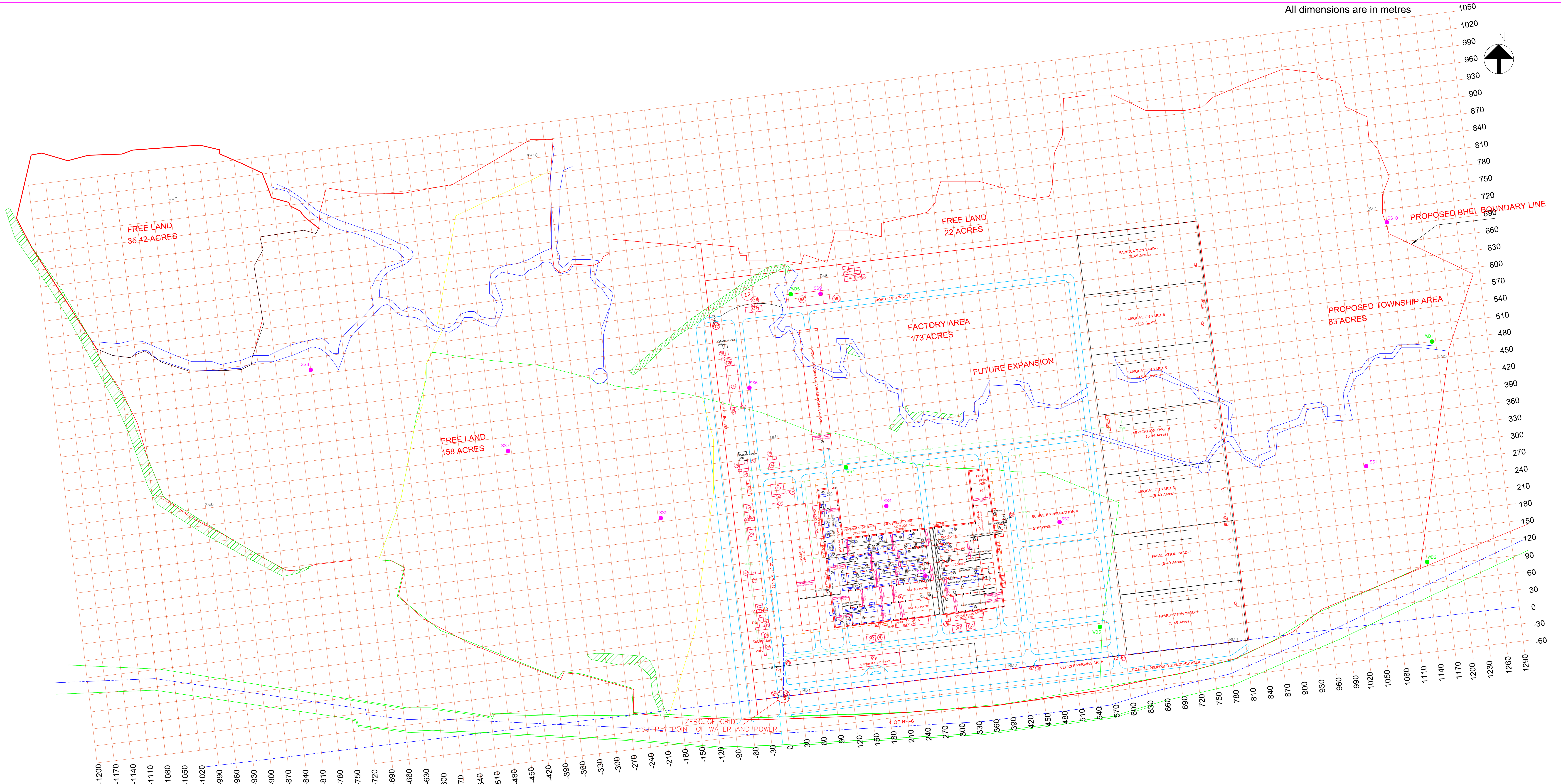
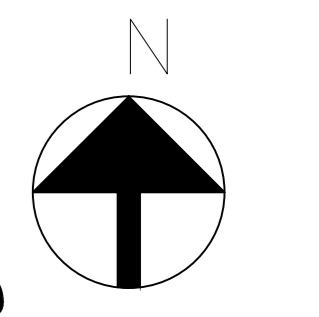
..... alternations have been made in the Tender Document and as evidence that these alternations were made before the execution of contract agreement, they have been initialed by the Contractor and the
.....
..... is hereby authorized to sign and initial on my behalf the documents forming part of this contract (Number of alternation in figures and words to be given me)

The above tender is accepted by me on behalf of the Bharat Heavy Electricals Limited, Unit Thriuverumbur, Tiruchirappalli – 620 014. for a sum of Rs..
.....
..... at the item rates as indicated in the Bill of Quantities attached to Schedule 'A'.

Signature Date.....

Designation

All dimensions are in metres



Sl.No	DETAILS	SIZE	NO OF STORES
1)	Production Shop	49680 Sqm	-
2)	Security Office	15MX5M	2
3)	Security Booth(4Nos)	5MX4M	1
4)	Fire Station	15MX12M	1
5)	Material Testing Lab	15MX12M	1
6)	Factory Medical Center	16.8MX12M	1
7)	Canteen	24MX18M	2
8)	Transport garage	15MX12M	1
9)	A. Scrap Disposal Yard	75MX24M	1
	B. Office room	8MX5M	1
10)	A. Stores office	15MX10M	1
	B. Covered Stores shed	60MX24M	-

Sl.No	DETAILS	SIZE	NO OF STORES
11)	A. Weigh Bridge-60T	30MX10M	-
	B. Control room	5MX4M	1
12)	Water Tank-500 Cum-1	-	-
13)	Compressed Air Plant	20MX14M	1
14)	A. Diesel generator plant	30MX12M	1
	B. Diesel storage shed	6MX6M	-
15)	A. Main Electrical Substation	26MX8.3M	2
	B. Transformer yard	9MX6M	-
16)	A. Liquid Oxygen Plant	5MX4M	-
	B. Liquid Oxygen Plant yard	6MX10M	-
17)	A. Civil Office	20MX12M	-
	B. Civil stores shed	12MX6M	-

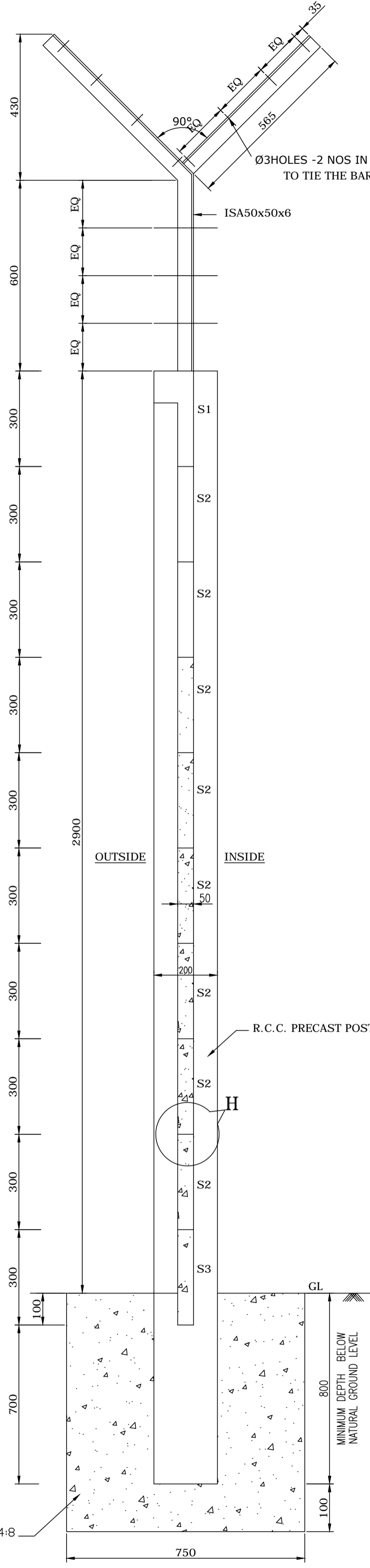
Sl.No	DETAILS	SIZE	NO OF STORES
18)	A. LPG storage yard & vapouriser	75MX20M	-
	B. LPG Control room	12MX8M	1
19A)	Sewage Treatment plant aeration tank	18MX9M	-
19B)	Sewage Treatment plant collection sump	10MX10M	-
19C)	Sewage Treatment plant clarifier	Di-8M	-
19D)	Sewage Treatment plant filter feed sump	10MX10M	-
19E)	Sewage Treatment plant sludge drying bed-6Nos	10MX5M	-
20)	A. Inflammable Stores yard	15MX8M	-
	B. Issue office	12MX5M	1
21)	Administrative block	90MX18M	2
22)	Compact substation, 2nos	12MX6M	2
23)	Office Annex	62MX12M	1

Sl.No	DETAILS	SIZE	NO OF STORES
24)	Parking shed	156MX6M	2
25)	Ladies rest room/ Sanitation crew- 1 no	6MX6M	1
26)	Toilet- 6nos	12MX6M	1
27)	Control panel shed 7 nos	3MX4M	-
28)	Maintance structure with security bunk	-	-
29)	Oxygen Filling station	16MX14M	1
30)	Fire Fighting Equipment shed	8MX7.5M	-
31)	Motor control center shed	7MX4M	-
32)	Compressor shed in LPG yard	7MX4M	-
33)	Vapouriser shed in LPG yard	10.5MX4M	-
34)	Cylinder storage shed	6MX6M	-
35)	Canteen LPG Manifold shed	6.3MX4M	-

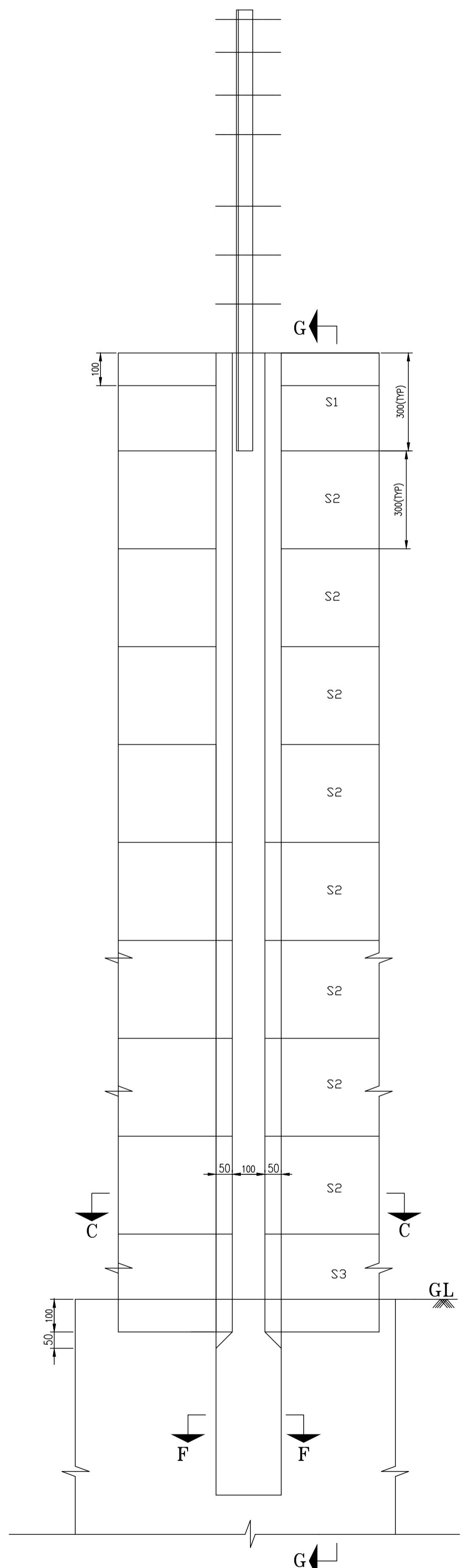
Sl.No	DETAILS	SIZE	NO OF STORES
36)	Canteen Vessel washing shed	6.3MX4M	2
37)	Canteen boiler shop	9MX3M	-
38)	LPG Manifolding Shed for shops - 5 Nos	3MX3M	-
39)	Fabrication yard(7nos)	154914sqm	-

LEGEND
 ● SS-SOIL SAMPLE BORE HOLE - 10 Nos
 ● WB-WATER YIELD TEST BORE HOLE - 5 Nos
 ■ BM-BENCH MARK PILLAR

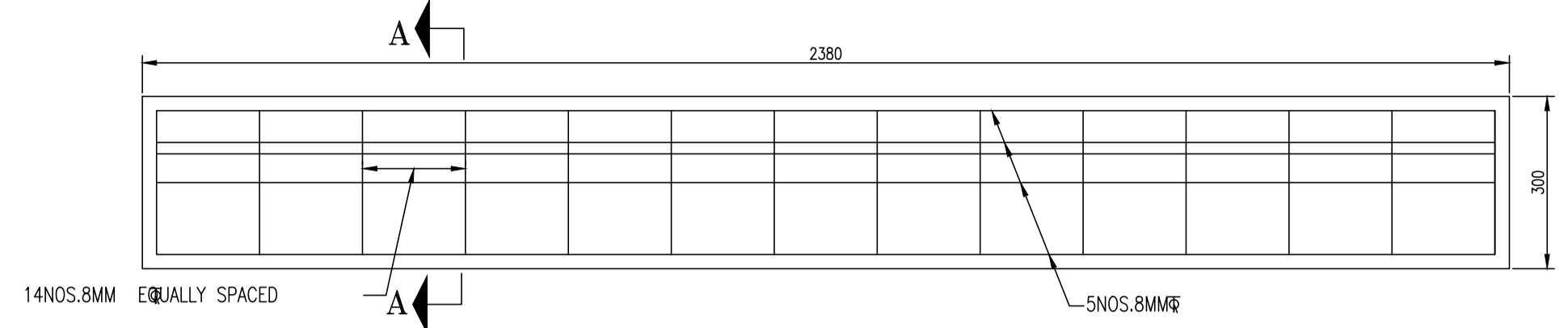
TYPE OF PRODUCT OR NAME OF CUSTOMER PROJECT		POWER EQUIPMENT FABRICATION PLANT BHANDARA, MAHARASHTRA STATE	
DATE	SCALE	DATE	SCALE
01/11/2024	AS SHOWN	01/11/2024	AS SHOWN
BY	CHECKED	BY	CHECKED
U D	U D	U D	U D
DRAWING NO		DATE	
0-TP-CEG-01121		00	



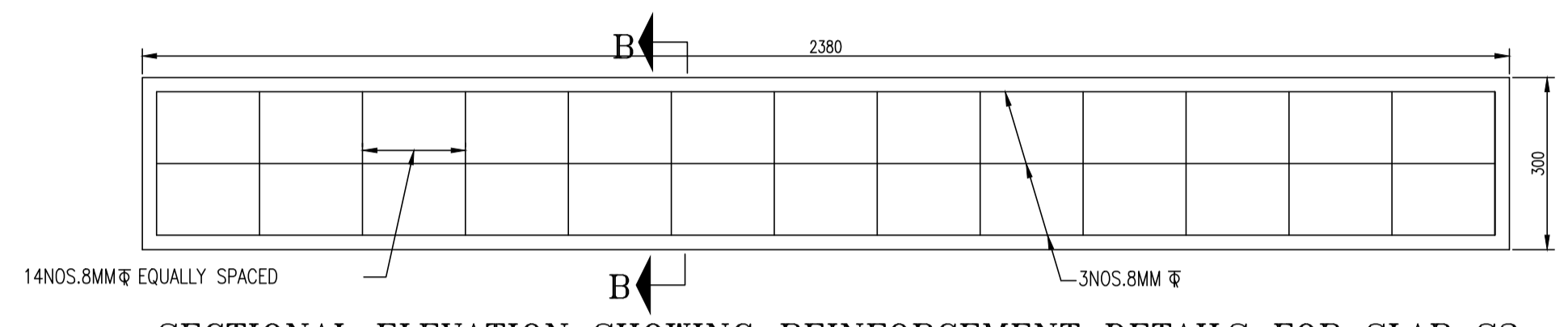
SECTIONAL ELEVATION-GG



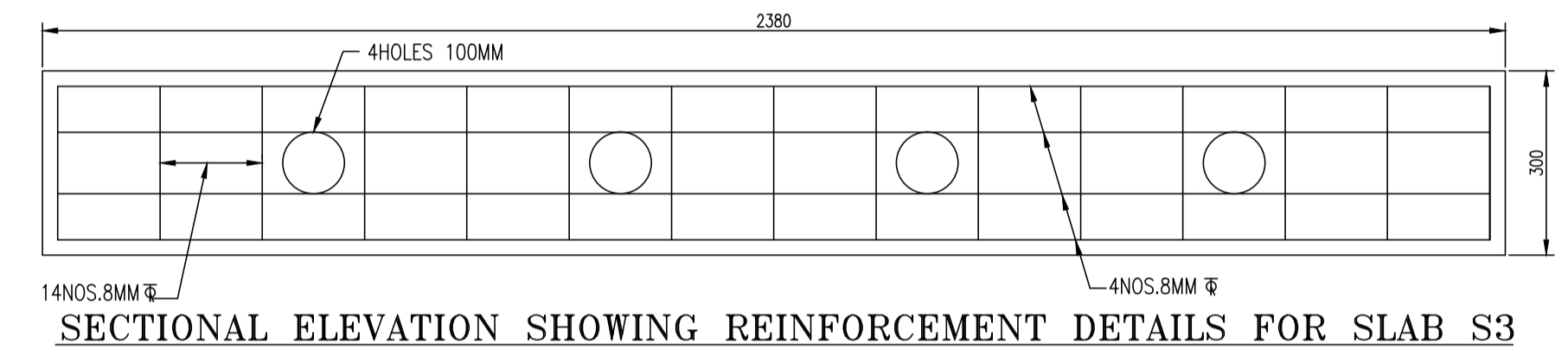
ELEVATION OF POST



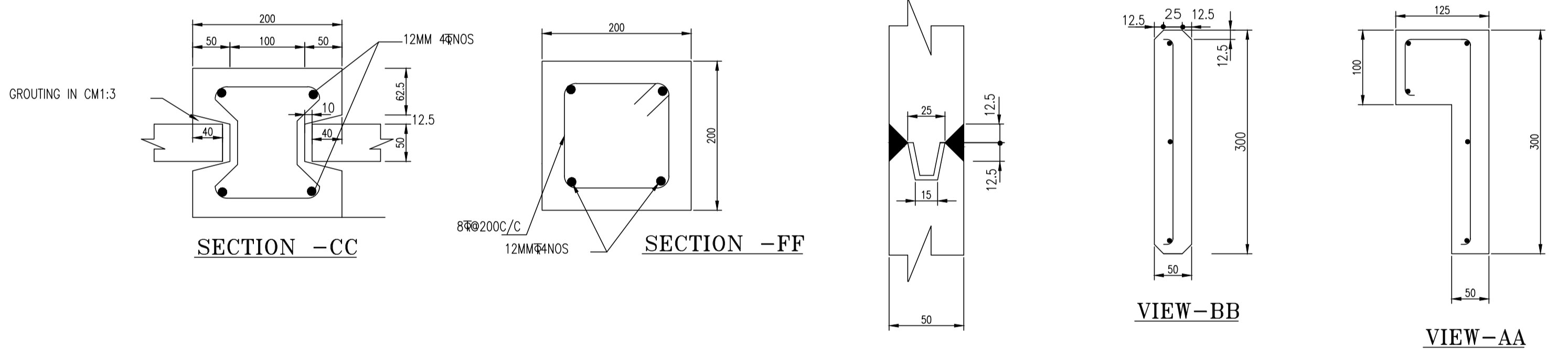
SECTIONAL ELEVATION SHOWING REINFORCEMENT DETAILS FOR SLAB S1



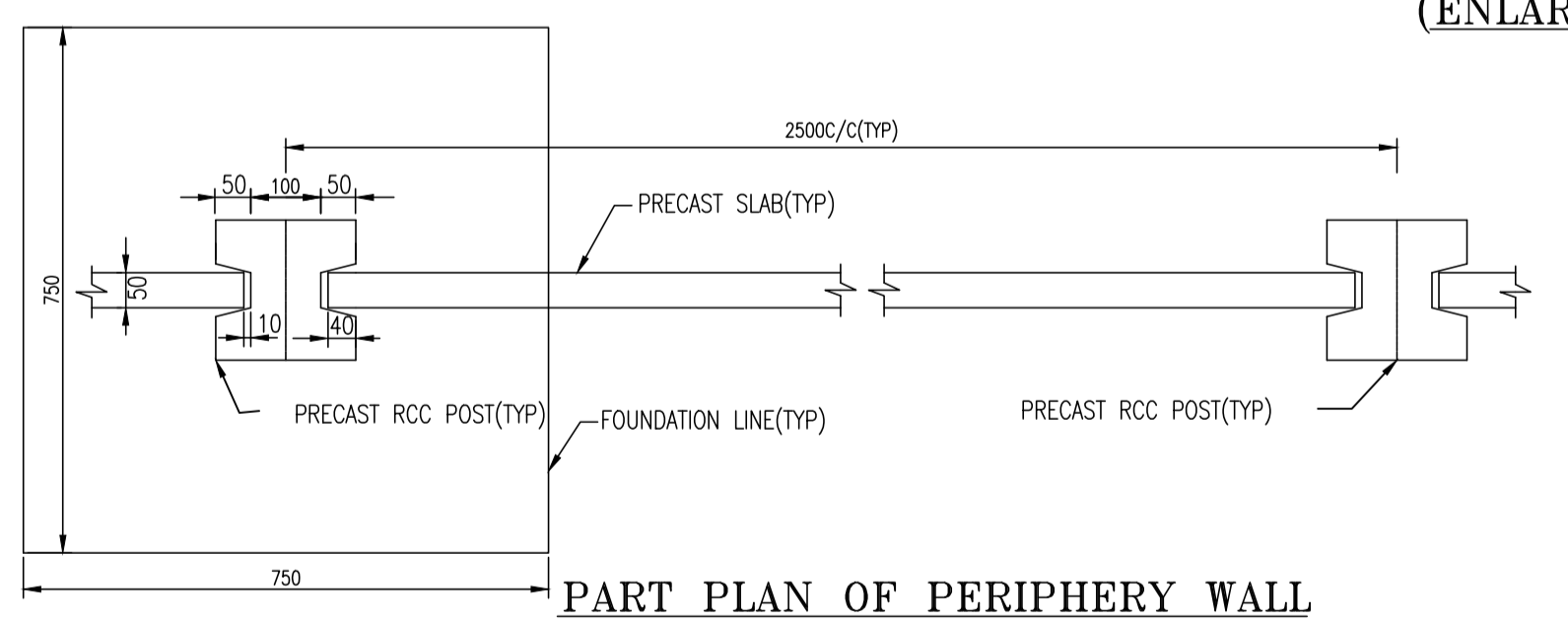
SECTIONAL ELEVATION SHOWING REINFORCEMENT DETAILS FOR SLAB S2



SECTIONAL ELEVATION SHOWING REINFORCEMENT DETAILS FOR SLAB S3



SLAB FIXING DETAIL-H (ENLARGED VIEW)



PART PLAN OF PERIPHERY WALL

- NOTES:**
- ALL DIMENSIONS ARE IN MM
 - CONCRETE GRADE M15 USING 20 MM AND DOWN GRADED JELLY
 - REINFORCEMENT ROD OF CTD BARS CONFORMING TO IS 1786-LATEST
 - CLEAR COVER TO REINFORCEMENT AS FOLLOWS
a. PRECAST SLAB-25 MM
b. PRECAST POST-30MM
 - IF THE SOIL AT THE FOUNDING LVL. IS LOOSE EXTRA EXCAVATION SHALL BE CARRIED OUT AND FILLED WITH PCC 1:4:8
 - FOR LOCATION OF COMPOUND WALL REFER SEPARATE DRAWING.
 - THE STEEL / CONCRETE STRUCTURAL ARRANGEMENT AND SIZES SHOWN IN THE DRAWING IS BASED ON PRELIMINARY ENGG. THE SAME WAY VARY DURING RELEASE OF CONSTRUCTION DRAWING AFTER DETAILED ENGG.

TENDER PURPOSE ONLY

TYPE OF PRODUCT OR NAME OF CUSTOMER/PROJECT		POWER EQUIPMENT FABRICATION PLANT -BHANDARA						
CAUTION: The information on this document is the property of Bharat Heavy Electricals Ltd. It is not to be used directly or indirectly in any way detrimental to the interest of the company.	REPT CIVIL/PROJ. CODE	GRADE OF UNITS: DIM C/M/F	SCALE 1:10	WEIGHT (Kg)	REF TO ASSY / OLD DWG			
					DRN I LAYARAJA E	SIGNATURE	DATE 8.8.2012	NO. OF VAR
					CHD AARUVIR YOGA T		8.8.2012	
TITLE		DETAILS OF RCC COMPOUND WALL		CARD CODE U 01	REV 00			
Bharat Heavy Electricals Ltd UNIT: HIGH PRESSURE BOILER PLANT TIRUCHIRAPALLI - 620014		APPD GUNASEKARAN K		DRAWING NO : 1-TP-CEG-00982				