

TENDER DOCUMENT

TENDER SPECIFICATION No : BAP-ERN-NTPL-UNIT-1-ESP-C-283

NAME OF WORK:

“Rectification and replacement of damaged ESP fields” involving handling at site stores/ storage yard, transportation to site of work, dismantling of existing ESP components to the extent required, erection, testing and commissioning of new components of Unit#1 at NLC Tamilnadu Power Ltd (NTPL), Tuticorin” using contractor’s own tools and plants, cranes , consumables, manpower etc.

Issued to M/s. :

PART – I (TECHNICAL BID)



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

BHARAT HEAVY ELECTRICALS LIMITED
BOILER AUXILIARIES PLANT
RANIPET- 632406.

ERECTION SERVICES DEPARTMENT

TENDER SPECIFICATION NO. : BAP-ERN-NTPL-UNIT-1-ESP-C-283

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**BHARAT HEAVY ELECTRICALS LIMITED
BOILER AUXILIARIES PLANT
RANIPET – 632 406**

ERECTION SERVICES DEPARTMENT

SPECIAL INSTRUCTIONS TO TENDERER

1. This Booklet consists of the scope and bill of quantities of the entire work etc.
2. The Tenderers are requested to go through the instructions contained in the documents attached fully and then quote in the Rate Schedule attached.
3. Tenderers are advised to go through the General conditions of contract, special conditions of the contract, tender specifications etc. and fully understand the scope of work before quoting. Any doubt in the documents should be got clarified from Erection Services Department of BHEL, Ranipet before submitting their offer.
4. Tenderers shall note that all consumables, tools & tackles and **all the required Cranes (120MT,150 MT, 10 MT etc.), Trucks / Trailors / Tractors etc.** are to be provided by the contractor.
5. **No advance payment towards mobilization of site operation** or for any other purpose will be made by BHEL. The payment for work will be made strictly as per payment terms in the tender specification.
6. **The Tender Documents should be submitted duly signed and stamped in all the pages** of the Tender Specification, General conditions, special conditions, Annexures etc. by the Tenderer.
7. **The entire revamping work has to be completed within 55 Days (pre-shutdown activities 15 days+shut down activities 25 days+post shut down activities15 days)days of Unit shutdown. All the resources required for completion of work in the stipulated time period has to be mobilized well in advance of the shutdown date.**
8. The undersigned is not bound to accept the lowest or any Tender and will have the right to reject any or all the Tenders without assigning any reason whatsoever.
9. Approval, if any, required from statutory authorities like Labour Commissioner, Electricity Board, etc., should be obtained by the tenderer on his own cost and risk.
10. The Tenderer should mobilise maximum labour force from the local area.
11. These Tender Documents are not transferable.
12. Tender with all the required documents should be submitted so as to reach as per schedule given in the notice inviting tender and **duly addressed to :**

**DY. GENERAL MANAGER,
ERECTION SERVICES DEPARTMENT,
BHARAT HEAVY ELECTRICALS LIMITED,
BOILER AUXILIARIES PLANT,
RANIPET – 632 406.
Phone No.:04172 - 241171 / 284973
E-mail: plramana@bhelrpt.co.in**

BHARAT HEAVY ELECTRICALS LIMITED
BOILER AUXILIARIES PLANT, RANIPET- 632406.
ERECTION SERVICES DEPARTMENT

NOTICE INVITING TENDER

Sealed Tenders in TWO PARTS are invited from experienced bidders meeting Qualification Requirements (QR) for the work mentioned below. Points relevant to the tender are mentioned below and are to be complied with.

1. TENDER SPECN NO. : BAP-ERN-NTPL-UNIT-1-ESP-C-283 Dated 13-Apr-2017

NAME OF THE WORK: "Rectification and replacement of damaged ESP fields" involving handling at site stores/ storage yard, transportation to site of work, dismantling of existing ESP components to the extent required, erection, testing and commissioning of new components of Unit#1 at NLC Tamilnadu Power Ltd (NTPL), Tuticorin" using contractor's own tools and plants, cranes, consumables, manpower etc.

2. **EARNEST MONEY DEPOSIT** : Rs. 1,44,000- (Rupees One Lakh Forty Four Thousand only)

3. **Sale Of Tender Specification Documents** : 13-Apr-2017 To 27-Apr-2017

4. **Due Date & Time For Submission of offer** : 27-Apr-2017 At 14.30 Hrs.

5. **Date & Time Of Opening Of Technical Bid** : 27-Apr-2017 At 14.30 Hrs. (Please obtain updated information from the website about the latest applicable dates.)

6. **EARNEST MONEY DEPOSIT (EMD) : EVERY TENDER MUST BE ACCOMPANIED BY THE PRESCRIBED AMOUNT OF EARNEST MONEY DEPOSIT.**

6.1. **EARNEST MONEY DEPOSIT (EMD) shall be remitted**

a) **along with the tender in the form of pay order or DEMAND DRAFT drawn in favour of BHARAT HEAVY ELECTRICALS LIMITED payable at RANIPET.**

b) Cash deposit as permissible under the extant Income Tax Act (before tender opening)

c) Electronic Fund Transfer credited in BHEL account No.10664849171 SBI-Mukundarayapuram, IFSC Code: SBIN0007103 (before Technical-Bid of tender opening)

EMD in the form of bank guarantee / fixed deposit receipt or in any other form **will not be accepted.**

7. **Tender that is not accompanied by the requisite EMD amount is liable to be summarily rejected.**

8. Tenderers whose technical bids are found acceptable to BHEL shall be intimated separately about the status of their offers. Date of price bid opening shall be intimated to the qualified bidders only.

9. Tender specification documents with complete details are hosted in web page (www.bhel.com). Bidders can directly download the same and use for submission of offer. Tender document charges shall be paid to BHEL along with or before submission of offer.

10. Interested bidders may alternately collect hard copy of tender specification documents from Erection Services Dept / BHEL / Ranipet on all working days (between 10.00 to 15.00 hrs) within the sale period on payment of tender document charges.

11. **Tender specification document charges (Non-refundable):** Charges for Tender Specification document @ Rs.1000/- per Tender Specification shall be paid by Account Payee Demand Draft in favour of "Bharat Heavy Electricals" payable at Ranipet or in Cash at the cash counter of BAP/Ranipet. In the case of downloading of Tender Specification documents etc. from the web page, the bidder shall remit the tender document charges (Rs.1000/-) positively along with or before submission of offer. In the case of request by the bidder for dispatch of Tender Specification documents through Courier/Post, extra charges shall be paid @ Rs.500/- per Tender Specification. The tender documents are not transferable.

12. BHEL will not take any responsibility for delay/loss of documents or correspondence sent by courier/post.

13. Acceptance of any tender shall be subject to the approval by BHEL's Customer.

14. BHEL reserves the right to accept or reject any or all tenders without assigning any reasons whatsoever.
15. All corrigenda, addenda, amendments, clarifications etc. to tender specification will be hosted in the web page (www.bhel.com > **Tender notifications > view corrigendum**) only and not in the news paper. Bidders shall keep themselves updated with all such developments.
16. BHEL reserves the right to reject any tender on the basis of unsatisfactory performance of the bidder in any on going job or any similar job in the past.
17. **QUALIFICATION CRITERIA:** The Bidder must satisfy the following Qualification Criteria for participating in the Tender.
- 17.1. The average financial turnover of the company during the last 3 years, ending 31st of March 2017, should be at least of **Rs.21.60 Lakhs** and the bidder should submit audited balance sheet and profit & loss account for the last three financial years (FY) ending on 31/03//2017 duly certified by chartered accountant /auditor.
- 17.2. Experience of having successfully completed **either of the following similar works** during last 7 years ending 31-Mar-2017.
- a) One similar completed works costing not less than the amount equal to Rs: 57.60 Lakhs.
(or)
- b) Two similar completed works costing not less than the amount equal to Rs:36.00 Lakhs
(or)
- c) Three similar completed works costing not less than the amount equal to Rs:28.80 Lakhs

Definition of Similar work: Rectification/Retrofitting/Revamping/Renovation / Modification of ESPs or ESP internals in any power plants of capacity 210 MW or above.

A bidder must satisfy all the qualifying requirements enumerated as in (18.1) & (18.2) above concurrently in order to qualify to participate in this tender.

The bidders to note that possession of provident Fund (PF) code is not a pre-condition for participation in the tender. However, the successful bidder should ensure to get the PF code for the employees engaged for this work.

18. **Supporting documents for QR:**
Bidder shall submit documents in support of possessing qualifying requirements as under, duly self certified and stamped by the authorized signatory.
- (i) Proof of Completion of similar works with the name of the project, Owner of the project, Name of the customer, Work order reference No and date, brief details of jobs, executed value, date of start, date of completion.
- (ii) Photocopies of work orders issued by the Customer containing details of bill of quantities/schedule of rates and certificates for proof of satisfactory completion of work.
- (iii) Performance certificate from at least one customer for any one category of similar works.
19. **Seeking clarification on Tender Specification :** Clarifications on tender specification if any may be sought by the bidders so as to reach this office at least seven days before the last date for tender submission. BHEL shall not be responsible for receipt of queries after the due date for seeking of clarification due to postal delay.
20. BHEL may decide holding a pre-bid conference (PBC) with any /all intending bidders. On such communication from BHEL, the bidder shall ensure participation in the same at the appointed time, date and place as may be decided by BHEL. Any clarification/query received after the pre-bid conference shall not be entertained.
21. All the information as called for in the various clauses and annexure of tender specification should be furnished. Please refer to the check list. The details so furnished should be complete in all respects and as per the formats prescribed in the Tender specification (Statutory requirement of Contract). The bidder may have to produce original documents for verification, if so decided by BHEL.

22. Offers received with any deviation or without relevant information are liable to be rejected.
 23. Price bids received in any form other than prescribed in Part-II (PRICE BID) are liable to be rejected.
 24. **Validity:** The tender offer should be kept valid for 180 days from the date of bid opening for acceptance by BHEL. No unsolicited revision in the tender offer shall be entertained after opening of tenders and till expiry of the validity period.
 25. **Liquidated Damages/Penalty:** BHEL will impose Liquidated Damages and Penalty as per suitable clauses in the Tender Specifications on account of delay, violation of contract conditions and non-performance attributable to the contractor.
 26. **REVERSE AUCTION:** BHEL Reserves the right to adopt the process of **Reverse Auction** (ON LINE BIDDING on INTERNET) among the bidders who are found to be qualified on the basis of technical bid. Refer the **General Terms and Conditions of reverse auction** in SECTION-VIII. No extension of time on this account will be entertained for bid submission.
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TENDER SPECIFICATION NO. : **BAP-ERN-NTPL-UNIT-1-ESP-C-283**

PROJECT INFORMATION

1. Purchaser and Owner : M/s. NLC Tamilnadu Power Ltd (NTPL), Tuticorin
2. Location : U#1 at NLC Tamilnadu Power Ltd (NTPL),
Harbour Estate, Tuticorin-PIN 628004

Before submitting his/her/their offer, the bidder has to get thoroughly acquainted with the site conditions with reference to Operating procedures inside the plant, security rules for access and movements, HSE rules prevailing in the plant, site interference problems, movement of cranes / derricks etc. in the store yard / work site during material handling, erection, storage facilities available, constraints on access and movements, etc. No compensation or revision of rates will be entertained at a later date for not having proper knowledge of the site conditions.

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TENDER SPECIFICATION NO. BAP-ERN-NTPL-UNIT-1-ESP-C-283

- 1.0 SCOPE OF WORK :** The scope of work includes **Dismantling** of existing Electrostatic Precipitator (ESP) Internals of specified fields, **Handling** at customer storage yard and **transportation** of new components / materials of ESP to site of erection, testing and commissioning in Unit#1 (2x 500 MW) at NLC Tamilnadu Power Ltd (NTPL), Tuticorin” using contractor’s own tools and plants, cranes, material handling equipment, consumables, manpower etc. The detailed scope of work is further explained herein and in the Annexure –I attached with this tender specification.
- 1.1** Dismantling / removal , shifting for safe storage and re-erection (to the extent required) of all the existing electrical components like Cables, Cable Trays, Junction Boxes(JB), Heaters, Structural supports for trays/ JBs etc, which are on the outer roof of the ESP is included in the scope of work. Removal and re-termination of cables etc. have to be carried out with necessary care (to avoid any damage) and as per instructions of BHEL Engineer at site.
 - 1.2** Any dismantling and re-erection of existing material/s that is required to complete the specified work as per BOQ shall form part of the work and be carried out at no extra cost to BHEL.
 - 1.3** The distance of BHEL / Customer stores / storage yard within the plant to site of erection is in a radius of about 1 km.
 - 1.4** All the ESP materials & components will be supplied by BHEL / Client on free issue basis.
 - 1.5** Fabrication and erection of temporary structures, platforms, supports etc. for dismantling and erection of ESP components forms part of the work. The temporary structures etc. erected shall be removed after completion of work at no extra cost.
 - 1.6** Adequate quantity of winches, steel ropes, pulleys etc shall be arranged by the contractor for safe dismantling and erection.
 - 1.7** The scope of work also includes shifting and proper storage of dismantled materials at NTPL store yard. The dismantled materials should be segregated then and there, usable materials should be devoluted to NTPL stores and unusable materials should be devoluted to NTPL scrap yard.
 - 1.8** Being a retrofitting job, any work like cutting/grinding etc. of supplied materials/existing materials to suit to site conditions shall form part of the erection work and no extra charges will be paid on this account.
 - 1.9** After completion of revamping work, all the materials/equipment removed/shifted shall be re-installed/re-erected/placed back in their original locations or at locations as instructed by BHEL.
 - 1.10** Trial-run, testing & commissioning of the entire work within the contract time and to the entire satisfaction of the customer and BHEL forms part of the work.
- 2.0 ROUND THE CLOCK WORK :** The work is to be carried during shutdown of the running plant and the relevant works have to be completed within the planned shutdown. This will call for working with enhanced resources and round the clock). The tenderer shall consider all such contingencies in their offer.
- 3.0 TERMINAL POINTS :** The terminal points decided by BHEL shall be final and binding on the contractor for deciding the scope of work and effecting payment for the work done.
- 4.0 SITE LOCATION :** The site of work is inside the existing NTPL, Harbour estate, Tuticorin-PIN-628004, Tamilnadu is in operation.
- 5.0 TOOLS & TACKLES :** It may be noted that **BHEL will not provide** any cranes , trailers / trucks / tractors, tools and plants for execution of the work. All required resources are to be arranged by the tenderer only. Higher capacity crane/s required for completion revamping work within the stipulated 50 days shutdown period shall be arranged by the contractor at no extra cost to BHEL. The tenderer should quote the rates considering all the eventualities that may arise during such works.
- 6.0 CONSTRUCTION POWER & WATER :** Required construction power and water to site shall be provided by BHEL on FREE OF CHARGE at one point only. Necessary power cabling from the source to distribution boards, energy meters etc. and distribution pipe lines to different locations of water point with taps, valves etc., shall be provided by the tenderer at his cost.

- 7.0 HEALTH, ENVIRONMENT AND SAFETY :** The tenderer shall visit the site of work before quoting for this work and take note of the site conditions, possible interferences for erection work as well as for the movement of cranes and also for hook up / testing of the equipment. The tenderer shall also acquire knowledge of prevailing rules and regulations pertaining to Health, Environment and Safety (HSE) procedures of M/s NTPL, Tuticorin site rules, prevailing labour laws enforced by local authorities, labour regulations, movement of labour / vehicles inside the plant area, time keeping systems etc., in force and other local political conditions before submission of offer. No payment shall be made extra for not having adequate knowledge about the site conditions or for any extra work on the account of existing site constraints.
- 7.1** All the working personnel should obtain proper safety certificates issued by BHEL/ NTPL, Tuticorin before start of work.
- 8.0 COMPLIANCE TO STATUTORY REQUIREMENTS :** It is the responsibility of the contractor to obtain the required labour license from the appropriate authorities before commencement of work.
- 8.1** The contractor shall comply with all State/Central Laws, Statutory Rules, Regulations etc. inclusive of those regarding Labour and Industrial Laws which are applicable from time to time and shall comply with the provision of the same Labour Legislation, Rules and Regulations framed under the provision of Employees' Provident Fund and Miscellaneous Provision Act 1952, ESI registration, Labour License etc..
- 8.2** The tenderer shall specify the **Provident Fund Code / ESI Number** allotted to their firm by the Provident Fund authorities for engagement of labour for this tendered **work or otherwise shall obtain PF Code/ESI No. from respective Authorities** before finalisation of the tender.
- 9.0 SITE MANAGEMENT :** The tenderer shall arrange to print all materials management forms, daily labour progress reports, and all other forms & reports etc., as indicated / instructed by BHEL and customer's HSE plan and project site rules.
- 10.0 MOBILISATION ADVANCE : No advance payment** towards mobilization of site operation or for any other purpose will be made by BHEL. The payment for work will be made strictly as per payment terms in the tender specification.
- 11.0 FIRM PRICE :** The Contractor has to keep his quoted rates firm for the entire contractual period including total extended period, if any, and no claim for revision of rates or price escalation is allowed under any circumstances.
- 12.0 VARIATION IN QUANTUM OF WORK :** The details of quantum of work are indicated in the rate schedule which is only approximate and is likely to vary to the extent required for the completion of the revamping work.
- 13.0 EARNEST MONEY DEPOSIT (EMD) :** The EMD amount to be remitted along with the offer and the mode of remittance shall be as indicated in the "Notice Inviting Tender".
- 14.0 SECURITY DEPOSIT (SD) :** The successful tenderer shall within the time specified in the letter of intent deposit the required amount of security deposit. The SD shall be as per clause 1.8 of General Conditions of Contract (GCC).
- 15.0 TAXES AND DUTIES :** Rates quoted shall include all royalties, taxes, terminal taxes, Octroi, duties, Sales Tax on Works Contract, Entry Tax, Central or Provincial Excise Tax and other taxes (**except Service Tax**) leviable under the state and the central Government Rules. BHEL will not entertain any claim whatsoever in this respect. No reimbursement on account of increase in rate of existing levies shall be made.
- 15.1** The tenderer shall not include Service Tax in their quoted rates. The service tax rates and its working shall be indicated separately in the price bid. The successful tenderer shall register themselves with the service tax authority and pay separately the Service Tax as applicable to this contract during execution of the work and get it reimbursed at actuals by BHEL by submitting necessary invoices / documentary proof as required by BHEL.
- 15.2 Procedure for reimbursement of Service Tax :** The service tax claimed in the first Running Account Service Invoice will be paid by BHEL. For subsequent invoices, Service Tax amounts will be paid only on production of proof for having remitted the previous service tax amounts paid by BHEL.
- 15.3** Service Tax @ 15% applicable for Service portion covered are payable by the contractor under this tender and reimbursible by BHEL.

16.0 PAYMENT TERMS :

All payments for the works completed shall be paid based on bills raised by the contractor and certified by Engineer-in-Charge of BHEL. **Payment will be made within a period of 30 days from the date of submission of bills along with all the enclosures as called for by BHEL. Payment will be through**

e-payment (through electronic fund transfer (EFT) / RTGS) only after deducting Bank charges as per BHEL terms of payment indicated below.

- a) 95% of contract rate on pro-rata basis on completion of Erection and Commissioning of ESP Fields and handing over of scrap material to NTPL, stores.
- b) The balance 5% of the contract value shall be paid after the guarantee period of 12 months. The guarantee period will commence from the date of handing over of unit to customer or six months after the date of successful completion of trial run, whichever is earlier, provided all erection, testing and commissioning works are completed in all respects. However this 5% amount can be released against bank guarantee valid for 12 months as aforesaid in the prescribed proforma of BHEL.

- 16.1 The tenderer has to furnish information called for in the formats attached with this booklet.** The details pertaining to the Bank Accounts where proceeds will be transferred through BHEL's Banker is to be furnished.
- 16.2** Copies of EPF remittance challans, ESI / Insurance remittances, Wage register, attendance register etc of the workers pertaining to the site of work and period applicable shall be attached to every bill submitted, failing which bills will not be processed. Copies of half yearly and annual EPF returns for the workers have also to be submitted, if required.
- 17.0 PERIOD OF CONTRACT / DURATION OF WORK :** The total duration for the tendered scope of revamping work is 55 Days (pre-shutdown activities 15 days+shut down activities 25 days+post shut down activities 15 days) and clearance by BHEL for commencement of dismantling work. All the pre-shutdown activities shall be carried out in consultation with BHEL.. The successful bidder has to mobilize all resources to site at least 15 days prior to date of shutdown and shall make arrangements for pre-assembly of EE&CE frames and for establishing facilities for labour accommodation, scaffolding arrangements, obtaining labour licence gate passes etc.,
- 17.1 Tentative Schedule : Shutdown is tentatively scheduled to commence on 13-May-2017.**
- 17.2** BHEL is endeavoring to pre-pone the commissioning of ESP system to meet the Customer requirement. The Contractor has to mobilize all resources to meet BHEL / Customer schedule.
- 17.3** The Tenderer has to submit a bar chart, indicating various activities for revamping of the ESP, to complete the entire work within the shutdown period (daily schedule). However, the contractor shall have to start the revamping work as per instructions of BHEL Engineer at site.
- 18.0 LIST OF TOOLS & TACKLES :** The list of Tools and tackles, cranes etc proposed to be deployed by the contractor shall be given along with the offer.
- 19.0 G.A Drawing :** Not applicable
- 20.0 Accommodation for Contractors' personnel :** BHEL shall not provide any accommodation facilities for the contractors' personnel. All the necessary arrangements have to be made by the contractor at no extra cost to BHEL.
- 21.0 LIQUIDATED DAMAGES :** If the work completion gets delayed due to reasons attributable to the contractor, Liquidated Damages will be levied at the rate of ½ % per Day, subject to a maximum of 10% of the contract value. Also ref. clause No.2.7.5 of General conditions of Contract. All decisions of BHEL in this regard will only be final and binding on the contractor.
- 22.0 EXTRA CHARGES FOR MODIFICATION AND RECTIFICATION WORKS:** Refer Section-VIII of the special conditions of contract.
- 23.0 OVER-RUN COMPENSATION (ORC):** Contractor shall not be entitled for any over run compensation for a period of first 3 months after the Contractual completion date. However, the contractor shall be paid over run charges for extension in the completion period beyond 3 months as stated above and for reasons not attributable to the Contractor. This shall be mutually discussed and settled at that time The rate of ORC payable per month and the total eligibility period will be determined by BHEL
- 24.0 The following documents enclosed shall also form part of the tender:**
- a. Technical Specification – (Annexure- I)
 - b. Statutory requirement of contract (ES:F:009)
 - c. General terms and conditions of work (ES:F:010)
 - d. Special Conditions of Contract for ESP works (BAP:ERN:SPN:MECH:ESP:02) Section-I to IX

TENDER DOCUMENT
(BAP-ERN-NTPL-UNIT-1-ESP-C-283 DT: 13-Apr-2017)
(UN-PRICED Copy of Price BID) SCHEDULE OF RATES & QUANTITIES

“Rectification and replacement of damaged ESP fields” involving handling at site stores/ storage yard, transportation to site of work, dismantling of existing ESP components to the extent required, erection, testing and commissioning of new components of Unit#1 at NLC Tamilnadu Power Ltd (NTPL), Tuticorin” using contractor’s own tools and plants, cranes , consumables, manpower etc.

S.No.	DESCRIPTION OF ITEM	Unit	QTY	RATE/UNIT RS. PS.	AMOUNT RS. PS.
A	<p>Rectification and replacement of damaged ESP fields of 1X 500 MW Unit-1 of NTPL.</p> <p>Brief scope of work:</p> <p>Receipt of materials from BHEL/stores, transporting to site of erection, dismantling of existing ESP internals to the extent required, Replacement/rectification/ of ESP internals, transporting of scrap to NTPL scrap yard (with in the boundary), complete alignment of fields inspection, testing and commissioning etc complete and repair works if any in the CE/ EE rapping mechanism. Collecting Electrodes shall be erected from top of the ESP by cut opening of inner roof & outer roof to the extent required. The approximate Wt. to be handled (i.e. Dismantling & erection) would be 232 MT. The scope includes safe removal and relaying of power and control cables/ cable trays, heater, junction boxes, insulation wool etc which may be found fouling during erection & dismantling of Collecting electrodes.</p>	Fields	4	Quoted	Quoted
	Total			Quoted	Quoted
	%-Age of Service Tax Applicable if Any				

Note: The applicable Service Tax is to be indicated in this UNPRICED-COPY of the Price-Bid

SIGNATURE OF BIDDER

ANNEXURE – I

TECHNICAL SPECIFICATION NO. : BAP-ERN-NTPL-UNIT-1-ESP-C-283 DT: 13-Apr-2017

SCOPE OF WORK

B) Scope of works pertaining to Erection and commissioning]

The scope of services to be provided by the contractor shall include the following:

1. Cleaning of ash deposits from the ESP internals by air by opening the manhole doors in the ESP field and ash hopper. Closing all doors with proper packing after completion of all works.
2. Dismantling of any dislodged/damaged ESP internals from the field.
3. Dismantling and removal of the outer and inner roof panels to the extent necessary to facilitate insertion of the suspension arrangement from the roof of the ESP.
4. Insertion and mounting of suspension arrangements of the collecting electrode with attachment angle and plates including spacing and alignment of the frames.
5. Insertion and mounting of new collecting electrodes on the hooks of the suspension arrangement and the electrodes in each row are to be secured with U clamps.
6. Fixing and alignment of new shock bars complete with shock pads, high tension bolts, shim etc., and with new collecting electrode assembly.\
7. The shock bar assembly is to be properly secured with shock bar guide both on rapping and non-rapping side.
8. Replacement of emitting electrodes and equal spacing between collecting and emitting electrodes is to be ensured.
9. Inspection and repair works if any in the CE/EE rapping mechanism.
10. Inspection of insulators.
11. Refixing the inner and outer roof panels with proper insulation on the inner roof.
12. All enabling works to facilitate the task of complete retrofitting of the ESP internals and field charging.
13. Commissioning of ESP after final inspection of the field.
14. Rectification of defects if any that will arise during field charging.
15. The works are to be carried out during the shutdown period of unit-I.
16. The works listed in the scope of work are only indicative and not exhaustive. The works taken up should be completed in all respects within the stipulated time. The norms and limits prescribed by the NTPL/BHEL engineers are to be kept up.
17. All the works are to be carried out only as per the instructions of the BHEL/NTPL Engineers.
18. The contractor shall take every effort to rectify all the defects in the particular field so as to restore the field after field charging.
19. The contractor should employ qualified supervisors including one electrician for entire works pertaining to this contract and take care of workmen safety and equipment safety.
20. The contractor shall be able to start the work within a short notice of time.
21. The contractor should be able to provide required skilled /unskilled persons [Fitter, Gas cutter, welder, Rigger] required for completion of works in time.
22. Place of work shall be cleaned after the completion of work. Debris/scraps /waste oil etc shall be collected and transported to NTPL scrap yard.
23. All the tools & tackles including cranes of required capacity for erection works, equipments like rectifier welding machines with electrodes, cutting set with cylinder, etc. and consumables required for the execution of work will be under the scope of the contractor. NTPL will supply power, air & water.

24. Necessary scaffolding pipes, clamps for work, if any required shall be brought and erected by the contractor. Any lifting arrangements/lifting tools &tackles for positioning of collecting electrodes and its suspension arrangements are to be arranged by the contractor.
25. Any structural alterations that are made in the ESP field have to be restored to previous shape including insulation & sheeting. The contractor is solely responsible for any damage caused to the equipment due to improper execution of work. The cost of such rectifications will be to his account.
26. All safety precautions during cutting and welding in all areas to avoid fire accident shall be strictly adhered to. Care shall be exercised while lifting heavy materials.
27. The contractor should bring his own safety appliances like helmets, shoes, gloves, safety belts, goggles, etc, and the same should be used by his workmen at site.
28. Utmost care shall be taken during working inside the ESP field and all safety precautions like wearing of safety belts, masks etc., are to be followed and used.
29. The contractor shall be fully responsible for accidents caused due to him or his agents or workmen's negligence or carelessness in regard to the observance of the safety requirements and shall be liable to pay compensation for injuries.
30. The rate quoted shall be firm for the duration of contract and nothing extra shall be payable on any account.
31. NTPL will provide 3 phase /single phase and 24 V power supply. The contractor has to make arrangements like cables, fittings for tapings for their use like welding/grinding/lighting etc. from the nearest supply point.
32. The workmen engaged must be covered under ESI for the particular job and also for higher elevations.
33. The contractor shall submit the daily labour report to the concerned executive daily in the beginning of each shift.
34. The Integrity Pact enclosed shall be duly filled, signed and submitted.

Note: Period of erection and commissioning work: Twenty Five days from the date of release of the front. (Additionally 15 days of Pre-Shut-down and 15 days of Post-shut down activities are applicable)

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GENERAL CONDITIONS OF CONTRACT

FOR

WORKS

(SECTION – I & II)

ES : F : 010



ERECTION SERVICES DEPARTMENT


BHARAT HEAVY ELECTRICALS LIMITED


(A Government of India Undertaking)


BOILER AUXILIARIES PLANT


INDIRA GANDHI INDUSTRIAL COMPLEX


RANIPET – 632 406

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<p>1. GENERAL INSTRUCTIONS TO BIDDERS</p> <p>1.1. DESPATCH INSTRUCTIONS:</p> <p>1.1.1. This tender specification as a whole, duly furnishing all the details required and other documents as required in the following pages, shall be duly signed and sent in a sealed cover duly super scribing the name of work as given in the tender notice.</p> <p>1.1.2. The tender shall be addressed to Officer inviting tender as indicated in the tender notice.</p> <p>1.1.3. Tenders submitted by post shall be sent by “REGISTERED POST WITH ACKNOWLEDGEMENT DUE “and shall be posted with the due allowance for any postal delay. The tenders received after the due date and time of opening are liable to be rejected. Telegraphic offers and offers received by telex may not be considered.</p> <p>1.1.4. Tenders shall be opened by authorized officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those bidders or their authorized representatives who may be present.</p> <p>1.1.5. The Tenders shall closely pursue all the clauses, specifications and drawings indicated in the tender documents before quoting. Should the bidder have any doubt in the meanings of any portion of the tender specification or find discrepancies or omission in the drawings or the tender documents issued are in complete or shall require clarification on any of the technical aspect, scope of work etc., he shall at once contact the authority inviting the tender for clarification before the submission of the tender.</p> <p>1.1.6. Before tendering, the bidders are advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later, on the ground of lack of knowledge.</p> <p>1.1.7. Bidder must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification must be signed and submitted along with the offers by the bidder in token of complete acceptance thereof. The information furnished shall be complete by itself.</p> <p>1.1.8. The bidders shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words.</p> <p>1.1.9. Discrepancy in Quoted Rates :</p> <ol style="list-style-type: none"> If, in the price structure quoted, there is a discrepancy between the Unit rate quoted and the Total Price (which is obtained by multiplying the unit price by the quantity) due to arithmetical errors, the Unit rate quoted will be considered valid and the Total price will be corrected accordingly, unless in the opinion of BHEL there is an obvious misplacement of decimal point in the unit price. In which case the total price as quoted shall govern and the unit price corrected accordingly. If there is an error in total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to (a) and (b) above. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date before which the bidder has to send their acceptance on the above lines. If the bidder does not agree to the decision of BHEL, the bid is liable to be ignored. <p>1.1.10. For the purpose of the tender, the metric system of units shall be used.</p> <p>1.1.11. All entries in the tender shall either be typed or be written in ink. Erasers and overwriting are not permitted and may render such tenders liable to summary rejection. All cancellations and insertions shall be duly attested by the bidder.</p> <p>1.2. QUALIFICATION OF BIDDERS: Only bidders who have previous experience in the work of this nature and description detailed in this tender specification are expected to quote for this work duly submitting details of experience along with the offer. Offers from bidders who do not have proven and established experience in the field are not likely to be considered.</p>		

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<p>1.3. DATA TO BE ENCLOSED: Full information shall be given by the bidder in respect of the following. Non- submission of these information may lead to rejection of the offer.</p>		
<p>1.3.1. FINANCIAL STATUS:</p>		
<p>A certificate from Scheduled Bank to prove his financial capacity to undertake the work duly indicating financial limits the bidder enjoys or solvency certificate from the concerned Government authority. Information required in Annexure A₇ shall be furnished by the bidder along with the offer.</p>		
<p>1.3.2. INCOME TAX CERTIFICATE:</p>		
<p>A certificate of Income Tax clearance from the appropriate authority in the forms prescribed there for indicating annual turnover and the Sales Tax clearance certificate from the appropriate authorities as prescribed by the concerned state government, if any. These certificates shall be valid for one year from the date of issue or for the period prescribed therein for all tenders submitted during the period.</p>		
<p>1.3.3. PREVIOUS EXPERIENCE:</p>		
<p>A statement giving particulars duly supported by documentary evidence of the various services rendered for each similar work by the bidder indicating the particulars, value of each work, the site location, the duration, date of completion, a list of site locations and particulars and value of various services that are under progress. Information required in Annexure –BI & BII shall be furnished by the bidders along with the offer.</p>		
<p>1.3.4. ORGANISATION CHART: The Organisation pattern that is presently available with the bidder and that will be employed by the bidder for this work shall be furnished.</p>		
<p>1.3.5. An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor, shall also be attached. (If it is a Company or Firm, etc., Director/Managing Partner as the case may be is required to sign)</p>		
<p>1.3.6. IN CASE OF AN INDIVIDUAL: His full name, address and place and nature of business shall be indicated.</p>		
<p>1.3.7. IN CASE OF PARTNERSHIP FIRMS: The names of all the partners and their addresses be furnished along with a copy of the partnership deed/instrument of partnership duly certified by Notary Public shall be enclosed.</p>		
<p>1.3.8. IN CASE OF COMPANIES:</p>		
<p>Date and place of registration including date of commencement certificate in case of public companies (certified copies of Memorandum and Articles of Association are also to be furnished) are to be furnished.</p>		
<p>1.3.9. Nature of business carried on by the Company and the provisions of the Memorandum relating there of shall be furnished.</p>		
<p>1.3.10 Names and particulars including addresses of the Directors and their previous experiences shall be furnished.</p>		
<p>1.3.11 A list of tools and tackles that the bidder is having and those that will be used on this job shall be furnished.</p>		
<p>1.3.12 In addition to the above, the particulars required in various annexure shall also be furnished.</p>		
<p>EARNEST MONEY DEPOSIT:</p>		
<p>1.4.1. Every tender must be accompanied by the prescribed amount of Earnest Money Deposit in any one of the following forms.</p>		
<p>1.4.1.1. EMD shall be deposited in cash (as permissible under income tax act), Banker's cheque, Payorder or Demand Draft (payable at Ranipet in favour of "Bharat Heavy Electricals Ltd.,") Electronic Fund Transfer in BAP/BHEL account (before tender Opening)only. No other form of EMD remittance shall be acceptable to BHEL.</p>		

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<p>1.4.1.2. In case of payment of EMD in the form of Cash, the amount should be remitted by the bidder to the Cash Office of Bharat Heavy Electricals Limited, BAP,Ranipet-632 406 during it's working hours and cash receipt issued shall be enclosed along with the tender.</p> <p>1.4.2. Tenders received without Earnest Money in full in the manner prescribed above are liable to be rejected.</p> <p>1.4.3. The Earnest Money Deposit of the successful tenders may be retained towards part of Security Deposit.</p> <p>1.4.4. In the case of unsuccessful bidders, the Earnest Money will be refunded to them within a reasonable time after finalisation of the tender.</p> <p>1.4.5. Earnest Money Deposit by the bidder will be forfeited as per tender documents if the bidder:</p> <p>1.4.5.1. Fails to communicate unqualified acceptance of Letter of Intent within 15 days of date of Letter of Intent.</p> <p>1.4.5.2. Does not commence the work within the period as per LOI/Contract. In case the LOI/Contract is silent in this regard then within fifteen days after award of contract.</p> <p>1.4.5.3. After opening of Tender, revokes/withdraws his tender within the validity period or revises/alters his earlier quoted rates/conditions.</p> <p>1.4.5.4. Fails to submit SD as indicated in the Letter of Intent.</p> <p>1.4.6. Earnest Money deposit shall not carry any interest.</p> <p>1.5. AUTHORISATION AND ATTESTATION:</p> <p>1.5.1. Tenders shall be signed by persons duly authorized /empowered to do so. Certified copies of such authority and relevant documents shall be submitted along with the tenders.</p> <p>1.6. VALIDITY OF OFFER: The rates in the Tender shall be kept open for acceptance for a minimum period of six months from the date of opening of tenders. In case the Bharat Heavy Electricals Limited calls for negotiations such negotiations shall not amount to cancellation or withdrawal of the original offer , which shall be binding on the bidders.</p> <p>1.7. EXECUTION OF CONTRACT: The successful bidder's responsibility under this contract commences from the date of issue of the Letter of Intent by Bharat Heavy Electricals Limited. The successful bidder shall be required to execute an agreement in the prescribed form (Annexure-D) with BHEL within a reasonable time after the acceptance of his tender and in any case before submitting the first bill for payment. The expenses for completion, stamping and registration of the agreement with prescribed authority, if necessary, shall be borne by the Contractor.</p> <p>1.8. SECURITY DEPOSIT:</p> <p>1.8.1. Upon acceptance of tender, the successful bidder within the time specified in the letter of intent must deposit the required amount of Security Deposit for satisfactory execution of work and shall not commence work under this contract before remitting security deposit except as directed by BHEL.</p> <p>1.8.2. The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.</p> <p>1.8.3. Modes of deposit: The balance amount to make up the required Security Deposit of 5% of the contract value may be accepted in the following forms:</p> <ol style="list-style-type: none"> i) Cash (as permissible under the extant Income Tax Act) ii) Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL iii) Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL iv) Fixed Deposit Receipt issued by Scheduled Banks/ Public Financial Institutions as defined in the Companies Act (FDR should be in the name of the Contractor, a/c BHEL) v) Securities available from Indian Post offices such as National Savings Certificates, Kisan Vikas Patras etc. (held in the name of Contractor furnishing the security and duly endorsed/ hypothecated/ pledged, as applicable, in favour of BHEL) 		


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<p>(Note: BHEL will not be liable or responsible in any manner for the collection of interest or renewal of the documents or in any other matter connected therewith)</p>		
<p>1.8.4. Collection of Security: At least 50% of the required Security Deposit, including the EMD, required to be submitted before start of the work. Balance of the Security Deposit can be recovered by deducting 10% of the gross amount progressively from each of the running bills of the Contractor till the total amount of the required Security Deposit is collected.</p> <p>1.8.5. If the value of work done at any time exceeds the contract value, the amount of Security Deposit shall be correspondingly enhanced and the additional Security Deposit shall be immediately deposited by the Contractor or recovered from payment/s due to the Contractor.</p> <p>1.8.5 Failure to deposit the Security Deposit within the stipulated time, may lead to forfeiture of Earnest Money and cancellation of the award of work.</p> <p>1.8.6 If any part of Security Deposit of the Contractor is held in the form of approved securities it shall be kept transferred in the name of Bharat Heavy Electricals Limited, Ranipet, in such a manner that the same can be realized fully without referring to the Contractor, BHEL shall not be responsible for any depreciation in the value of the Security while in BHEL's custody or for any loss of interest thereon.</p> <p>1.8.7 BHEL reserves the right to forfeiture of Security Deposit in addition to the other claims and penalties in the event of the Contractor's failure to fulfill any of the Contractual obligation including liquidation or bankruptcy of the contractor, non-payment of money payable by means of arbitration award in favour of BHEL or in the event of termination of Contract as per terms and conditions of Contract. BHEL reserves the right to set off the Security Deposit, against any claims of any other contracts with BHEL.</p> <p>1.8.8 RETURN OF SECURITY DEPOSIT:</p> <p>If the Contractor performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "No Demand Certificate" in the prescribed form (Annexure-F) and returns properties belonging to BHEL handed over, lent or hired by him for carrying out the said works, Security Deposit will be released to the Contractor after deducting all cost of expenses or other amounts that are to be paid to BHEL under this or other contracts entered into with the Contractor. It may be noted that in no case the Security Deposit shall be refunded/released prior to passing of final bill.</p>		
<p>1.9. REJECTION OF TENDER AND OTHER CONDITIONS</p>		
<p>1.9.1. The acceptance of Tender will rest solely with BHEL which does not bind itself to accept the lowest tender or any tender and reserves to itself full rights for the following without assigning any reasons whatsoever.</p> <p>1.9.1.1. To reject any or all of the bidders.</p> <p>1.9.1.2. To split up the work amongst two or more Bidders.</p> <p>1.9.1.3. To award the work in part.</p> <p>1.9.1.4. Either of the contingencies stated in (1.9.1.2) and (1.9.1.3) above to modify the time for completion suitably.</p>		


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<p>1.9.1. Conditional and Unwitnessed tenders, tenders containing absurd or unworkable rates and amounts and tenders which are incomplete and otherwise considered defective and tenders not in accordance with the tender conditions, specifications, etc., are liable to be rejected.</p> <p>1.9.2. Conditional and Unwitnessed tenders, tenders containing absurd or unworkable rates and amounts and tenders which are incomplete and otherwise considered defective and tenders not in accordance with the tender conditions, specifications, etc., are liable to be rejected.</p> <p>1.9.3. If a bidder expires after the submission of his/her tender or after the acceptance of his/her tender, BHEL may at their discretion cancel such tender. If a partner of a firm expires the submission of the tender or after the acceptance of the tender, BHEL may cancel such tender at their discretion unless the firm retains its character.</p> <p>1.9.4. BHEL will not be bound by any power of Attorney granted by the bidder or by changes in the composition of the firm made subsequent to the execution of the Contract. They may, however recognize such power of Attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the contractor concerned.</p> <p>1.9.5. If the bidder deliberately gives wrong information in his tender, BHEL reserves the right to reject such tender at any stage or cancel the contract, if awarded. The Earnest Money/Security Deposit /any other money due shall also be forfeited.</p> <p>1.9.6. Canvassing in any form in connection with the tender is strictly prohibited and the tenders submitted by the contractors who resort to canvassing in any form are liable to rejection.</p> <p>1.9.7. Should a bidder or contractor or in the case of a firm or company of contractors one or more of its partners/share holders/Directors have a relation or relations employed in BHEL, the authority inviting tender shall be informed of the fact along with the offer, failing this BHEL may, at its sole discretion reject the tender or cancel the contract and forfeit the Earnest Money/Security Deposit.</p> <p>1.9.8. The successful bidder should not sub-contract the part or complete work detailed in the tender specification undertaken by him without written permission of BHEL. The bidder is solely responsible to BHEL for the work awarded to him.</p> <p>1.9.9. No deviation from the tender specification shall be acceptable to BHEL. Bidders shall confirm their unqualified acceptance of the terms and conditions by giving an undertaking to this effect in a separate letter as specified by BHEL.</p> <p>1.10. NO INTEREST shall be payable by BHEL on Earnest Money or Security Deposit, if applicable, or any money due to the Contractor by BHEL.</p>		


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SECTION –II


- 2.1. **DEFINITION:** The following terms shall have the meaning hereby assigned to them except where the context otherwise requires.
- 2.1.1. **BHEL or (B.H.E.L Ltd)** shall mean Bharat Heavy Electricals Limited a Company registered under Indian Companies Act 1956, with its Registered Office at BHEL House, Siri fort, New Delhi 110 049 or its Authorised Officers or its Resident Engineer or other employees authorized to deal with any matters with which these persons are concerned on its behalf.
- 2.1.2. **“GENERAL MANAGER”** shall mean the Officer in Administrative charges of contracting unit of BHEL.
- 2.1.3. **“ENGINEER”** or **“ENGINEER IN CHARGE”** shall mean Engineer who is in-charge for the works referred in Erection Services. The term also includes PROJECT MANAGER, “RESIDENT MANAGER” “SITE ENGINEER “ “ RESIDENT MANAGER” and “ASSISTANT SITE ENGINEER “ of BHEL at the site as well as the Officers in-charge at Head Office.
- 2.1.4. **“SITE”** shall mean the place or places at which the plants/equipments are to be erected and services are to be performed as per the specification of this contract.
- 2.1.5. **“CLIENTS OF BHEL”** or **“CUSTOMER”** shall mean the project authorities to whom BHEL is supplying the equipments.
- 2.1.6. **“CONTRACTOR”** shall mean the individual, firm or company who enters in to this contract with BHEL and shall include their executors, administrators, successor and permitted assignees.
- 2.1.7. **“CONTRACT”** or **“CONTRACT DOCUMENT”** shall mean/and include the agreement or work order, the accepted appendices of rates, schedules, quantities, if any and general conditions of contract, the special conditions of contract, instructions to the bidders, the drawings, the technical specifications, the special specifications, if any, the tender documents and the Letter of Intent/Acceptance Letter issued by BHEL. Any conditions or terms stipulated by the contractor in the tender document or subsequent letters shall not form part of the contract unless specially accepted in writing by BHEL, in the Letter of intent and incorporated in the agreement.
- 2.1.8. **“GENERAL AND SPECIAL CONDITIONS OF CONTRACT”** shall mean the “Instructions to Bidders and General and Special Conditions of Contract” pertaining to the work for which the bidders are called for.
- 2.1.9. **“TENDER SPECIFICATIONS”** shall mean the “SPECIFIC CONDITIONS, Technical specifications, appendices, site informations and drawings” pertaining to the work in which the bidders are required to submit their offer, Individual specification number will be assigned to each tender specification..
- 2.1.10. **“TENDER DOCUMENTS”** shall mean the General and Special Conditions of Contract(2.1.8) and tender specification(2.1.9).
- 2.1.11. **“LETTER OF INTENT”** shall mean the intimation by a letter to the bidder that the tender has been accepted in accordance with provisions contained in that letter. The responsibility of the contractor commences from the date of issue of this letter and all the terms and conditions of contract are applicable from this date.
- 2.1.12. **“COMPLETION TIME”** Shall mean the period by date specified in the acceptance of tender or date mutually agreed upon for handing over of the erected equipment/plant which are found acceptable by the Engineer being of required standard and conforming to the specifications of the contract.
- 2.1.13. **“PLANT”** shall mean and cannot be the entire assembly of the plant and equipments covered by the contract.
- 2.1.14. **“EQUIPMENT”** shall mean all equipments, machinery, materials, structurals, electricals and other components of the plant covered by the contract.
- 2.1.15. **“TESTS”** shall mean and include such test or tests to be carried out on the part of the contractor as are prescribed in the contract or considered necessary by BHEL in order to ascertain the quality, workmanship, performance and efficiency of the contract work or part thereof.
- 2.1.16. **“APPROVED” “DIRECTED”** or **“INSTRUCTED”** shall mean approved, directed or instructed by BHEL.


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<p>2.1.17. “WORK OR CONTRACT WORK” shall mean and include supply of all categories of labour specified consumables, tools and tackles required for complete and satisfactory site transportation handling, stocking, storing, erecting, testing, and commissioning of the equipments to the entire satisfaction of BHEL.</p> <p>2.1.18. “SINGULAR AND PLURAL ETC” works carrying singular number shall also include plural and vice versa, where the context so required. Words importing the masculine gender shall be taken to include the feminine gender and words imparting persons shall include any company or association or body of individuals, whether incorporated or not.</p> <p>2.1.19. “HEADINGS” The headings in these general conditions are solely for the purpose of facilitating reference and shall not be deemed to be part thereof or be taken into consideration in the interpretation or construction thereof or of the contract.</p> <p>2.1.20. “MONTH” shall mean calender month, unless specified otherwise in the tender.</p> <p>2.1.21. “WRITING” shall include any manuscript typewritten or printed statement under the signature of BHEL.</p> <p>2.2. LAW GOVERNING THE CONTRACT AND COURT JURISDICTION The contract shall be governed by the Law for the time being in force in the Republic of India, and shall be subject to the Jurisdiction of the courts having Jurisdiction over RANIPET (VELLORE Dist, Tamil Nadu).</p> <p>2.3. ISSUE OF NOTICE: The Contractor shall furnish to the BHEL ENGINEER the name, designation and address of his authorized agent and all complaints, notices, communication and reference shall be deemed to have been duly given to the contractor or his authorized agent or left or posted to the address of either the contractor or of his representative and shall be deemed to have been so give in the case of posting on the day on which they would have reached such address in the ordinary course of post or on which they were so delivered of / or left.</p> <p>2.4. USE OF LAND: No land belonging to BHEL or their customer under temporary possession of BHEL shall be occupied by the Contractor without the written permission of BHEL.</p> <p>2.5. COMMENCEMENT OF WORKS:</p> <p>2.5.1. The Contractor shall commence the works within the time indicated in the Letter of Intent from BHEL and shall proceed with the same with due expedition without delay.</p> <p>2.5.2. If the successful bidder fails to start the work within the stipulated time, BHEL, at his sole discretion will have the right to cancel the contract. His earnest money and/or Security Deposit with BHEL will stand forfeited without any further reference to him without prejudice to any and all of BHEL’s other rights and remedies in this regard.</p> <p>2.5.3. All the works shall be carried out under the direction and to the satisfaction of BHEL.</p> <p>2.5.4. The erected/constructed plant or work performed under this contract shall be taken over when it has been completed in all respects and/or satisfactorily put in to operation at site.</p> <p>2.6. MODE OF PAYMENT AND MEASUREMENT OF THE WORK COMPLETED:</p> <p>2.6.1. All payments due to the contract shall be paid through E-PAYMENT (EFT / RTGS) only. The contractor has to furnish acceptance for e-payment, duly indicating the bank account details in the prescribed format.</p> <p>2.6.2. For Progress running bill payment: The contractor shall present detailed measurement working sheets, in quadruplicate, duly indicating all relevant details based on technical documents and connected drawings for work done during the month/period under various categories in line with terms of payment as per letter of intent. The basis of arriving at the quantities/weight shall be the relevant documents and drawings released by BHEL.</p>		

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<p>2.6.3. These measurement working sheets will be checked and vetted by BHEL Engineers and quantities and percentage eligible for payment under various groups shall be decided by BHEL engineers. The abstract of quantities and percentage so arrived based on the terms of payment shall be entered in Measurement Book and signed by both the parties.</p> <p>2.6.4. Based on the above quantity, contractor shall prepare the bills in prescribed proforma and work out the financial value. These will be entered in Measurement Book and signed by both the parties and paid duly effecting recoveries due.</p> <p>2.6.5. All recoveries due from the contractor for the month/period shall be effected in full from the corresponding running bills unless specific approval from the competent authorities is obtained otherwise.</p> <p>2.6.6. Measurement shall be restricted to that for which it is required to ascertain the financial liability of BHEL under this contract.</p> <p>2.6.7. The measurement shall be taken jointly by persons duly authorized on the part of BHEL and by the contractor.</p> <p>2.6.8. The contractor shall bear the expenditure involved, if any, in making the measurement. The contractor shall, without extra charges provide all the assistance with appliances and other things necessary for measurement.</p> <p>2.6.9. If, at any time due to any reason, whatsoever, it becomes necessary to re-measure the work done in full or in part, the expenses towards such re-measurements shall be borne by the contractor.</p> <p>2.6.10. Passing of measurement as per bills does not amount to acceptance of the completion of the work mentioned. Any left out work has to be completed if pointed out at a later date by BHEL.</p> <p>2.6.11. Final measurement bill shall be prepared in the final bill proforma prescribed for the purpose based on the certificate issued by BHEL Engineer that entire work as stipulated in the tender specification has been completed in all respects to the entire satisfaction of BHEL. Contractors shall give unqualified 'No Due' and 'No Demand' certificate. All the tools and tackles loaned to them should be returned in condition satisfactory to BHEL. Quantities/Weight erected shall be prepared and paid, within a reasonable time after completion of work. After payment of final bill, only guarantee obligation percentage shall remain unpaid which shall be released in accordance with clause 2.13. The final bill quantities and financial value shall also be entered in Measurement Book and signed by both the parties to the contract.</p> <p>2.7 RIGHTS OF BHEL</p> <p>BHEL reserves the following rights in respect of this contract without entitling the contractor for any compensation.</p> <p>2.7.1. To get the work done through other agency at the risk and cost of the Contractor, in the event of Contractor's poor progress, or inability to progress the work, persistent disregard in instruction of BHEL, assignment transfer, subletting of the contract without permission of BHEL, non fulfillment of any contractual obligation etc., and to recover compensation for such losses from the contractor including BHEL's supervision charges and overheads from Security Deposit / other dues.</p> <p>2.7.2. To withdraw any portion of work and/or to restrict/alter quantum of work as indicated and get it done through other agency and/or with departmental labour to suit BHEL's commitment to its customer or in case BHEL decides to advance the date of completion due to other emergency reasons/BHEL's obligation to its customer.</p> <p>2.7.3. To terminate the contract after due notice to cause forfeiting of Security Deposit and recover the loss sustained in getting the balance work done through other agencies in addition to liquidated damages in the event of :</p> <p>2.7.3.1. Contractor's continued poor progress.</p> <p>2.7.3.2. Withdrawal from or abandonment of the work before completion of the work.</p>		

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<p>2.7.3.3. Corrupt act of contractor.</p> <p>2.7.3.4. Insolvency of the contractor.</p> <p>2.7.3.5. Persistent disregards to the instructions of BHEL.</p> <p>2.7.3.6. Assignment transfer, sub-letting of the contract without BHEL's permission.</p> <p>2.7.3.7. Non-fulfillment of any contractual obligations.</p> <p>2.7.4. To recover any money due from the contractor from any money due to the contractor under this contract or any other contract or from the Security Deposit.</p> <p>2.7.5. Liquidated Damages: Time is the essence of the contract. The Contractor has to complete the entire scope of work within the contract period. If the Contract-period gets extended due reasons solely attributable to the contractor, then the "Liquidated Damages" at the rate as specified in the NIT shall be levied. However, if nothing is mentioned in the NIT, the applicable LD will be of ½% of the contract value per day of delay or part thereof subject to a ceiling of 10% of contract value, unless otherwise specifically waived-off.</p> <p>2.7.6. To terminate the contract or to restrict the quantum of work and pay for the portion of work executed in case BHEL's contracts with their customers are terminated for any reason.</p> <p>2.7.7. To effect recovery from any amount due to the contractor under this or any other contractor in any other form the moneys BHEL is forced to pay to anybody, due to contractor's failure to fulfill any of his obligation.</p> <p>2.7.8. To restrict or increase the quantity and nature of work to suit the site requirements since the tender specification is based on preliminary documents and quantities furnished there in are indicative and approximate and the rates quoted shall not be subject to revision.</p> <p>2.7.9. To deploy BHEL's fitters, welders, operators and technicians in case of emergency/poor progress/deficiency in skill on the part of employees of contractor and to recover the expenditure on account of the same from contractor's bills.</p> <p>2.7.10. While every endeavor will be made by BHEL they cannot guarantee un-interrupted work to the contractor due to conditions beyond their control. Contractor will not be entitled for any compensation extra payment on his account.</p> <p>2.7.11. In the event of any dispute of any nature, the decision of BHEL shall be final and binding on the contractor.</p> <p>2.7.12. Cancellation of contract in part or full for contractor's default:</p> <p>If the contractor:</p> <p>a) makes default in commencing the work within a reasonable time from the date of handing over of the site and continue in that state after a reasonable notice from Engineer-in-charge.</p> <p style="text-align: center;">OR</p> <p>b) in the opinion of the Engineer-in-charge at any time whether before or after the date / extended date for completion, make default in proceeding with the work, with due diligence and continue in that state after a notice of seven days from Engineer-in-charge</p> <p style="text-align: center;">OR</p> <p>c) fails to comply with any of the terms and conditions of the contract or after 7 days notice in writing with orders properly issued there under</p> <p style="text-align: center;">OR</p> <p>d) fails to complete the work order and items of work as per individual dates for completion and clear the site on or before the date of completion or fails to achieve the progress set out in accordance with the provisions of contract.</p>		

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<p>The Accepting Officer may, without prejudice to any other right or remedy which shall have accrued or shall accrue to BHEL, cancel the contract as a whole or in part thereof or only such work order items of work in default from the contract. Whenever the Accepting officer exercises his authority to cancel the contract as a whole or in part under this condition he may complete the work at the contractor's risk and cost , provided always that in the event of the cost of completion (as certified by Engineer-in-charge, which is final and conclusive) being less than the contract cost the advantage shall accrue to the BHEL. If the cost of completion exceeds, the money due to the contractor under this contract the contractor shall either pay the excess amount ordered by General Manager or the same shall be recovered from the contractor by other means. Engineer-in-charge will have power to take possession of site and materials, constructional plant, implements, stores etc there on.</p> <p>In case BHEL completes the work or any part thereof under the provisions of the contract conditions, then such completion is to be taken in to account in determining the excess cost to be charged to the contractor under this condition and shall consist of the cost of materials purchased and / or labour provided by BHEL, with an addition of such percentage to cover superintendence and establishment charges as may be decided by the General Manager, whose decision shall be final and conclusive.</p> <p>2.7.13. If the contractor fails to pay the excess sum within a period of 30 days the Engineer-in-charge shall have the right to sell any or of the contractor's unused materials, construction plant, implements, temporary buildings etc., and apply the proceeds of sale thereof towards the satisfaction of any sum due from the contractor under the contract and if there after be any balance out standing from the contractor, it shall be recovered in accordance with the provisions of the contract.</p> <p>2.7.14. BHEL shall have the right to recover any money due from the contractor from any money due to the contractor under this contract or any other contract or from the Security Deposit.</p> <p>2.8. RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS Etc.</p> <p>The following are the responsibilities of the Contractor in respect of observation of local laws, employment of personnel, payment of taxes etc.</p> <p>2.8.1. As far as possible unskilled workers shall be engaged from the local areas in which the work is being executed.</p> <p>2.8.2. The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals, religious and other customs.</p> <p>2.8.3. The contractor shall comply with all state and Centrals Laws, Statutory Rules, Regulations etc., inclusive of those regarding labour and industrial laws which are applicable from time to time and they shall comply with the provisions of the said labour legislations, rules and regulations framed under the provisions of Employees Provident Fund and Miscellaneous Provisions Act 1952 shall be strictly followed.</p> <p>2.8.4. The contractor shall pay all taxes, including sales Tax on works contract if any fees, license, charges, deposits duties, tool royalty commissions or other charges which may be leviable on account of any of his operations in execution of the contract in case BHEL is forced to pay any of such taxes. BHEL shall have the right to recover the same from the contractor either from his bills or other wise as deemed fit.</p> <p>2.8.5. While BHEL would pay the inspection fees, of the Boiler Inspectorate, all other arrangements for the visits periodically by Boiler Inspector to site, Inspection Certificate etc., will have to be made by the contractor. However BHEL will not make any payment to Boiler Inspector in connection with contractor's welders qualification/requalification tests etc.</p> <p>2.8.6. The contractor shall be responsible for provision of health and sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act) safety precautions etc., as may be required for safe and satisfactory execution of the contract.</p> <p>2.8.7. The contractor shall be responsible for providing proper accommodation including adequate medical facilities for the personnel employed by him.</p> <p>2.8.8. The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.</p>		

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<p>2.8.9. The contractor shall ensure that no damage is caused to any person/property of other parties working at site. If any such damage is caused it is the responsibility of the contractor to make good the losses or compensate for the same.</p> <p>2.8.10. All the properties/equipments/components of BHEL their client loaned with or without deposit to the contractor in connection with contract shall remain the properties of BHEL/their client. The contractor shall use such properties for purpose of execution of this contract, all such properties/equipments/components shall be deemed to be in good condition when received by the Contractors unless he notifies within 48 hours to the contrary. The Contractor shall return them in good condition as and when required by BHEL/their client. In case of non-return, loss, damage, repairs etc, the cost thereof, as may be fixed by the site Engineer, will be recovered from the Contractor.</p> <p>2.8.11. It is not obligatory on the part of BHEL to supply any tools and tackles or other materials other than those specifically agreed to do so by BHEL. However, depending upon the availability/possibility BHEL's customer's handing equipment and other plants may be made available to the contractor on payment of the hire charges/free of charges, as fixed subject to the conditions laid down by BHEL/Customer from time to time. Unless paid in advance such hire charges if applicable shall be recovered from contractors bills/security deposit in one installment.</p> <p>2.8.12. The Contractor shall fully indemnify BHEL against all claims of whatsoever nature arising during the course of erection/construction/performing work under the contract.</p> <p>2.8.13. In case the Contractor is required to undertake any work outside the scope of this contract the rate payable shall be those mutually agreed upon.</p> <p>2.8.14. Any delay in completion of works/non-achievement of periodical targets, due to reasons attributable to the contractor, the same will have to be compensated by the Contractor either by increasing manpower and resources or by working extra hours and/or by working more than one shift. All these are to be carried out by the contractor at no extra cost.</p> <p>2.8.15. The contractor shall arrange and co-ordinate his work in such a manner as to cause no hindrance to other agencies working in the same premises.</p> <p>2.8.16. All safety rules and codes applied by the client/BHEL at site shall be observed by the contractor without exception. The contractor shall be responsible for the safety of the equipment/material and works to be performed by him and shall maintain all light, fencing guards signs etc, or other protection necessary for the purpose. Contractor shall also take such additional precautions as may be indicated from time to time by the Engineer with a view prevent pilferage, accidents, fire hazards and due precautions shall be taken against fire hazards and atmospheric conditions. Suitable number of clerical staff, watch and ward, store keepers to take care of equipment, materials and construction tools and tackles shall be posted at site by the contractor till the completion of the work under this contract. The contractor shall arrange for such safety devices as are necessary for such type of work and carry out the requisite site tests of handling equipments, lifting tools, tackles, etc., as per prescribed standards and practices.</p> <p>2.8.17. The contractor will be directly responsible for payment of wages to his workmen. A pay roll sheet giving all the type payments given to the workers and duly signed by the contractor's representative should be furnished to BHEL Site office on or before 15th of every succeeding month.</p> <p>2.8.18. In case of any class of work for which there is no such specification as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of the Engineer.</p> <p>2.8.19. No levy of payment or charge made or imposed shall be impeached by reason of any clerical error or by reason of any mistake in the amount levied or demanded or charged.</p> <p>2.8.20. Also no idle labour charges will be admissible in the event of any stoppage caused in the work resulting contractor's labour being rendered idle due to any cause at any time.</p> <p>2.8.21. The contractor shall take all reasonable care to protect the materials and work till such time the plant/equipment has been taken over by BHEL/their client.</p> <p>2.8.22. Contractor shall not stop the work or abandon the site for whatsoever reason or dispute, excepting for force major conditions. All such problems/dispute, shall be separately discussed and settled without affecting the progress of work. Such stoppage or abandonment shall be treated as breach of contract and dealt with accordingly.</p>		

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<p>2.9. CONSEQUENCES OF CANCELLATION:</p> <p>Whenever BHEL exercises its authority to terminate the contract/withdraw a portion of work under the clause 2.7 they may complete the work by any means. In the event of the cost of completion as certified by the site Engineer which is final and conclusive being less than the contract cost, the advantage shall accrue to BHEL and that if the cost of completion exceeds the moneys due to the contractor under the contract, the contractor shall either pay the excess amount ordered by BHEL or the same shall be recovered from the contractor by any other means. This will be in addition to the forfeiture of Security Deposit and recovery of liquidated damages as per the relevant clauses.</p> <p>2.9.1. In case BHEL completes the work under the provision of this condition, the cost of such completion to be taken into account in determining the excess cost to be charged to the contract under this condition, shall consist of materials purchased and/or labour provided by BHEL with an addition of such percentage to cover supervision and establishment charges as may be decided by BHEL.</p> <p>2.10 INSURANCE:</p> <p>2.10.1. BHEL/their customer shall arrange for insuring the materials/properties of BHEL / customer covering the risks during transit, storage, erection and commissioning.</p> <p>2.10.2. It is sole responsibility of the contractor to insure his workmen against accidents and injury while at work as required by relevant Rules and to pay compensation, if any, to workmen as per workmen's Compensation Act. The work will be carried out in a protected area and all the rules and regulations of the client/BHEL in the area of project which are in force from time to time will have to be followed by contractor.</p> <p>2.10.3. If due to negligence and/or non-observance of safety and other precautions, any accident/injury occurs to any other persons/public, the contractor shall have to pay necessary compensation and other expenses if so decided by the appropriate authorities.</p> <p>2.10.4. If due to contractor's carelessness's, negligence of non-observance of safety precautions damage to BHEL's /customer's property and personnel should occur and if BHEL is unable to recover in full cost from the insurance company, the same will be recovered from the contractor.</p> <p>2.10.5. It shall be the responsibility of the contractor to provide security arrangement for the equipment/materials belonging to BHEL and handed over to the contractor for erection/transportation till the same are taken over by BHEL after erection/returned to BHEL stores.</p> <p>2.11. STRIKES & LOCKOUTS:</p> <p>2.11.1. The contractor will be fully responsible for the entire dispute and other issues connected with his labour. In the event of the contract labour resorting to strike or the contract resorting to lock-out and if the strike or lock-out declared is not settled within a period of one month, BHEL, shall have the right to get the erection work executed employing its won labour or through any agencies or both and the cost so incurred by BHEL be deducted from the contractor's bills.</p> <p>2.11.2. For any purpose whatsoever the employees of the contractor shall not be deemed to be in the employment of BHEL.</p> <p>2.12. FORCE MAJEURE:</p> <p>2.12.1 The following shall amount to FORCE MAJEURE:</p> <p>Act of God or of any Government, War, Sabotage, Riots, Civil commotion, Police action revolution, Flood, Fire, Cyclones, Earth quake and epidemic and other similar causes over which the contractor has no control.</p> <p>2.12.2. If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by FORCE MAJEURE as defined above, the agreed time of completion of the job covered by this contract or the obligation of contractor shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency the contractor immediately reports to BHEL in writing the causes of delay and the contractor shall not be eligible for any compensation.</p>		

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2.13. GUARANTEE:

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

2.14. ARBITRATION:

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

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

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

Subject as aforesaid the provision of the Arbitration and Conciliation Act 1996 or any statutory modification or reenactment thereof and the rules made there under and for the time being in force shall apply to the arbitration proceeding under this clause.

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


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


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


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

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

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<p>CONTRACT AGREEMENT</p>		
<p>AGREEMENT NO: BAP : ERN : BHE : DATE:</p> <p>Name of work : _____</p> <p>Name of the contractor with full address : _____</p> <p>Amount of tender accepted : _____</p> <p>Letter of Intent No. : _____</p> <p>Time allotted for completing the work : _____ (date of completion)</p> <p style="text-align: right;">(Officer authorized to sign the agreement)</p> <p>CONTRACTOR</p>		

 <p>Ranipet</p>	<p align="center">Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT</p>	<p align="center">GENERAL CONDITIONS OF CONTRACT ES : F : 010</p> <hr/> <p align="center">Page No.: 17 of 18</p>
<p align="center">ANNEXURE 'E' PROFORMA FOR SECURITY DEPOSIT</p>		
<p>THIS DEED OF GUARANTEE made this day of _____ by Messrs. _____ (hereinafter called the Bank) in favour of Messrs. <u>BHARAT HEAVY ELECTRICALS LIMITED, RANIPET</u> having its Registered Office at New Delhi (hereinafter called the Principal)</p>		
<p>WHEREAS Messrs. _____ (hereinafter called the Contractor) has entered in to a Contract with Bharat Heavy Electricals Ltd., Ranipet arising out of Letter of Intent No. _____ Dt. _____ addressed by the Principal to the Contractor (hereinafter called the said agreement) for</p>		
<p>AND WHEREAS the said Agreement provides that the contractor shall pay a sum of Rs. _____ (Rupees _____ only) towards 50% of full Security Deposit to be made in the form and manner therein specified.</p>		
<p>AND WHEREAS the Contractor have approached the Bank and at their request and in consideration of the agreement arrived at between the said contractor and the Bank, the Bank has agreed to give such guarantee as hereinafter mentioned to the Principal.</p>		
<p>NOW, therefore, these present witness that we the Bank by the hand Mr. _____ its lawfully and duly constituted attorney, do hereby undertake to pay to the principal a sum of Rs. _____ (Rupees _____ only) without demur on demand being made by the principal and to keep the principal indemnified to the extent of Rs. _____ by</p>		
<p>virtue of this guarantee against any loss or damage caused to or suffered by the principal by reason of any breach by the aforesaid contract of any of the terms and or conditions, stipulations or undertakings of any one of them contained in the said Agreement and the tender documents attached thereto and for the payment of any money or moneys payable by the said contractor to the principal under the terms and conditions of the said Agreements (the decisions regarding the breach, loss damage or payment due being solely in the discretion of the Principal).</p>		
<p>We further undertake to pay without demur the aforesaid amount in a lump sum on demand or such part thereof as the Principal may demand from time to time irrespective of the fact whether the said contractor admits or denies such claim or questions its correctness in any Court Tribunal or Arbitration Proceedings or before any authority. The aforesaid guarantee will remain in force and we shall be liable under the same irrespective of any concession or time being granted by the principal, to the Contractor in or fulfilling the said agreement between contractor and the principal and the guarantee will remain in full force irrespective of any change of terms, conditions or stipulation or any variation in the terms of the said agreement irrespective of whether notice of such change or/variation is given to us or not and claim to receive such notice of any change/and or variation of the terms and or variation of the terms and or/conditions of the said agreement is hereby specifically waived by us. Further we shall not be release from this guarantee by any forbearance of the exercise or non-exercise of any of the powers or rights under the said agreement by the principal against the contractor irrespective of whether notice of such forbearance enforcement or non-enforcement of any powers or rights, modifications or change made in the said agreement or concessions shown to contractor by the principal is given to us or not.</p>		
<p>The guarantee herein contained shall not be determined or affected by the liquidation or winding up or insolvency of or change in the constitution of the contractor but shall in all respects and for all purposes be binding and operative until all payments of all moneys due or that may hereafter become due to the principal in respect of any liability or obligations of the contractor under the said agreement.</p>		
<p>We, the 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 principal under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged or till the principal certifies that the terms and conditions of the said Agreement have been fully and properly carried out by the said contractor and accordingly discharges the guarantee subject to however that the principal shall have no rights under this guarantee after the expiry of six months from the date of completion of the contract (the date of completion shall be as certified by the Principal) unless this guarantee is extended by agreement.</p>		
<p>Any claim or dispute arising under the terms of this contract shall only be enforced or settled in the Court having jurisdiction over RANIPET (VELLORE Dist, Tamil Nadu)</p>		
<p>And lastly the Bank undertakes not to revoke this guarantee during its currency except with the previous consent of the principal in writing.</p>		
<p>The bank hereby declares that it has power to issue this guarantee under that Bank's Memorandum and Articles of Association and the undersigned has power to do so on its behalf under the power of Attorney granted to him by the proper Authorities of the Bank.</p>		
<p>Date:</p> <p>Seal:</p>	<p align="right">(Name of the Bank & Place)</p> <p align="right">DESIGNATION OF THE AUTHORISED PERSON SIGNING THE GUARANTEE</p>	

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ANNEXURE –'F' NO DEMAND CERTIFICATE		
<p>1) Name of work :</p> <p>2) Agreement Date :</p> <p>3) I/We certify that</p> <p>a) I/We have completed the above work to the entire satisfaction of BHEL.</p> <p>b) I/We have handed over all the balance materials, components, tools and tackles, machinery and other equipment of BHEL.</p> <p>c) I/We have received the final payment from BHEL for the above work.</p> <p>d) I/We have no further demand whatsoever from BHEL.</p> <p>I/We, therefore request you to refund to me/us the security deposit of</p> <p>Rs. _____.</p> <p>(Rupees _____ only)</p> <p>and the Bank guarantee No.: _____ dt. _____.</p> <p>Rs. _____.</p> <p>After deducting all cost of expenses or other amounts that are to be paid by me/us to BHEL under this contractor other contract entered into by me/us with BHEL.</p> <p style="text-align: right;">SIGNATURE OF THE CONTRACTOR WITH SEAL</p>		
<p>Place:</p> <p>Date:</p> <p>Witness 1)</p> <p style="padding-left: 100px;">2)</p> <p style="padding-left: 100px;">3)</p>		

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STATUTORY REQUIREMENT

OF

CONTRACT


(FORMATS & PROCEDURES)


ES : F : 009




R 05- 275

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

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CHECK LIST			
Bidders are required to fill in the following details:			
1.a	Name of the Bidder With address, Phone No., Mobile No., Fax and e-mail.		
1.b	Nature of Firm (Whether Proprietary, Partnership, Pvt.Ltd, Others-Specify)		
2	Whether EMD submitted as per tender Specification Terms and conditions		Yes / No
3	Validity of offer (shall be as per relevant clause of NIT)		Yes / No
4	Whether Bidder visited the erection Site and acquainted with Site Conditions before quoting		Yes / No
5	Whether the following details are furnished.		
5.a	Previous Experience – Photocopies as in QR	Annexure-B-I & B-II	Yes / No
5.b	Present assignments		Yes / No
5.c	Organization chart of the Company	Annexure-C	Yes / No
5.d	Financial status of the Company	Annexure-A	Yes / No
5.e	In case of Company, proof of registration of the Company		Yes / No
5.f	Memorandum and Articles of Association of Company / copy of Partnership Deed.		Yes / No
5.g	Profit and Loss Account For the last three Years		Yes / No
5.h	Balance sheet for the last three years		Yes / No
5.i	Income Tax clearance Certificates		Yes / No
5.j	Solvency Certificate from a Nationalized Bank		Yes / No
5.k	Power of Attorney of the person signing the tender duly attested by a Notary Public		Yes / No
5.l	Names and addresses of Directors, Partners their Experience and qualification		Yes / No
5.m	Manpower Organization chart and Tools list with deployment plan at Site for satisfactory completion of work under this specification		Yes / No
5.n	EPF regn No. (with a copy of certificate)		
5.o	Service Tax regn No. (with copy of cert')		
5.p	E- payment acceptance as per appendix.		Yes / No
5.q	Rate schedule as per the schedule appended		Yes / No
6	Whether the Bidder is conversant with local labour laws and conditions		Yes / No
7	Whether the Bidder is aware of all safety Rules and codes.		Yes / No
8	Whether the declaration sheet (as per appendix enclosed) filled		Yes / No
9	Whether the erection schedule (as per appendix enclosed) furnished		Yes / No
10	Whether all the pages are read, understood and signed		Yes / No
SIGNATURE OF BIDDER			
NOTE : The Bidders are requested to peruse the Tender Specification terms and conditions carefully and furnish the above information also in detail as required.			

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OFFER OF THE BIDDER (FORMAT - To be typed written in LETTER HEAD and submitted along with offer)			
<p>To</p> <p>The Dy. General Manager Erection Services Dept, Bharat Heavy Electricals Limited, Boiler Auxiliaries Plant, Indira Gandhi Industrial Complex, RANIPET –632 406. (TAMIL NADU). -----</p> <p>Sir,</p> <p>I / We hereby offer to carry out the work detailed in the Tender Specification issued by M/s. Bharat Heavy Electricals Limited, Boiler Auxiliaries Plant, Ranipet in accordance with the terms and conditions thereof:</p> <p>I/ we have carefully pursued the following documents connected with the above work and agree to abide by the same. We herewith confirm that we have visited the site of work mentioned in the NIT</p> <p>a. General terms and conditions of work (ES: F:010) b. Statutory requirement of Contract (ES: F:009) c. Special conditions of Contract for Mechanical works (Section-III& Section-IV) d. Respective Tender Specification e. Special Instructions to Bidder f. General terms and conditions of Reverse Auction. h. Other sections, appendices, annexure, schedules and drawing.</p> <p>I/We have deposited / forwarded herewith the Earnest Money Deposit in the form prescribed and as stipulated in Clause No.1.4. of the General Conditions of Contract for Works towards the Earnest Money Deposit for an amount as per the NIT ie. Rs. _____ (Rupees. _____ only) (In words) vide Pay Order No.....Dt..... 2017 / Demand Draft No..... dt..... 2017 which shall be refunded should our offer not be accepted. Should our offer be accepted, I/We further agree to deposit such additional sum, within the stipulated time as may be indicated by BHEL, which along with the sum of Rs. _____ (Rupees. _____ only) shall make up the Security Deposit for the work as provided for in clause 1.8.2 of the General Conditions of Contract for Works.</p> <p>I/We further agree to execute all the works referred to in the said documents upon the terms and conditions contained or referred to therein and as indicated in the Annexure enclosed thereto.</p>			
SIGNATURE OF BIDDER:			
Place:		ADDRESS:	
Date:			
WITNESSES WITH FULL ADDRESS			
	SIGNATURE	NAME	ADDRESS
1			
2			
3			

 Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT Ranipet	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009		
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APPENDIX – II (To be filled by Tenderer and submitted along with Tender document)			
S.No.	PARTICULARS	YES	NO
01	SERVICE TAX		
a.	Service Tax Registration No. of Tenderer (copy to be enclosed)		
b.	Issue of Service Tax Invoice as per Rule 9 of Cenvat Credit rules 2004		
c.	Whether Tenderer is taking Service Tax Credit for their Inputs		
d.	Under which Service Head is Service provided		
e.	If Service Tax is Exempted , furnish reasons		
f.	BHEL Service Tax Registration No. (To indicate in your Invoice) : AAACB/4146/PST/008		
02	INCOME TAX		
a.	PAN No. of Tenderer		
b.	If Exempted , furnish exemption Certificate		
c.	PAN No. of BHEL : AAACB/4146/P		
03	WC ST		
a.	CST Registration No.		
b.	VAT Registration No.		
c.	Whether Tenderer is availing VAT Credit		
d.	If Exempted , furnish Reasons		
	NOTE :		
	1. Rates Quoted shall be clearly indicated that they are INCLUSIVE of all Taxes & Duties except service tax. The Contractor has to issue invoice accordingly. Also refer clause 15.0 of Tender specification regarding Taxes & Duties		
	2. Payment will be made only through e-payment to your account. Payment through Cheque / DD payment will not be made by BHEL.		
Tenderer has to submit Banker's Certificate as per format specified in APPENDIX- IV.			
Agreed to the Above Conditions			
Signature of the Tenderer :			

 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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APPENDIX - III
ACCEPTANCE FOR ELECTRONIC FUND TRANSFER / RTGS TRANSFER

01	NAME & ADDRESS OF THE SUPPLIER / VENDOR MOBILE, PHONE NO. WITH STD CODE												
	PAN NO.												
02	VENDOR CODE (as in Purchase Order)												
03	Details of Bank Account:												
A)	NAME & ADDRESS OF THE BANK (WITH PIN CODE)												
B)	BANK TELEPHONE NUMBER (WITH STD CODE)												
C)	BANK BRANCH CODE												
D)	MICR CODE												
E)	ACCOUNT NUMBER												
F)	TYPE OF ACCOUNT	CURRENT A/C / OD / CASH CREDIT											
G)	Vendor name as per Bank records												
H)	BANK BRANCH RTGS IFSC CODE												
I)	BANK BRANCH NEFT IFSC CODE												
J)	VENDOR'S EMAIL ID (give two ids)												
1													
2													
K)	NAME OF AUTHORISED SIGNATORY												

CERTIFICATE

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

AUTHORISED SIGNATORY OF VENDOR WITH SEAL

Banker's Certification

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

PLACE: _____

DATE: _____

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

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

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APPENDIX – IV

Certified by Chartered Accountant on letter head

This is certify that M/s, (hereinafter referred to as ‘company’) having its registered office at is registered under MSMED Act 2006, (Entrepreneur Memorandum No (part-II) dtd Category:.....(Micro/Small).(Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as on date as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost excluding land and building and the items specified by the Ministry of Small Scale Industries vide its notification No.S.O.1722(E) dated 5, 2006 :

Rs..... Lakhs

2. **For Services Enterprises:** Investment in equipment (original cost excluding land and building and furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED Act, 2006:

Rs..... Lakhs

The above investment of Rs..... Lakhs is within permissible limit of Rs..... Lakhs for Micro/Small (**Strike off which is not applicable**) Category under MSMED Act 2006.


Date:


(Signature)


Name –

Membership Number –

Seal of Chartered Accountant

 भारत हेवी इलेक्ट्रिकल लिमिटेड BHEL Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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CERTIFICATE OF NO DEVIATION (FORMAT - To be typed written in LETTER HEAD and submitted along with offer)		
<p>I / Weof M/s hereby certify that there is no deviation from the Tender conditions either technical or commercial and I am / We are agreeing to all the terms and conditions mentioned in the Tender Specification No. : <u>(BAP-ERN-NTPL-UNIT-1-ESP-C-283)</u>.</p>		
Date :		SIGNATURE OF THE BIDDER

 भारत हेवी इलेक्ट्रिकल लिमिटेड BHEL Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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DECLARATION SHEET (FORMAT - To be typed written in LETTER HEAD and submitted along with offer)		
<p>I, hereby certify that all the information and data furnished by me with regard to this Tender Specification No. <u>BAP-ERN-NTPL-UNIT-1-ESP-C-283</u> are true and complete to the best of my knowledge. I have gone through the specification, conditions and stipulations in detail and agree to comply with the requirements and intent of specifications. Further certify that I am duly authorized representative of the under mentioned Bidder and a valid power of Attorney to this effect is also enclosed.</p>		
BIDDER'S NAME AND ADDRESS:		
AUTHORISED REPRESENTATIVE'S SIGNATURE WITH NAME AND ADDRESS		

 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT		STATUTORY REQUIREMENT OF CONTRACT ES : F : 009	
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<u>FINANCIAL VIABILITY (Annexure-A)</u>				
SI	Aspects		Rs	To be filled-up
1	Owner's Capital in the business (In case of Partnership please Mention percentage of shares and Amount)		Rs.	
2	Quantum of business done during Last three financial years.	Year 20 ___ - __	Rs.	
		Year 20 ___ - __		
		Year 20 ___ - __		
		(Year 20___ - __)		
3	Value of Fixed Assets of the business in last three years	Year 20 ___ - __	Rs.	
		Year 20 ___ - __		
		Year 20 ___ - __		
		(Year 20___ - __)		
4	Guarantee limits (if any) Enjoyed by the firm		Rs.	
5	Overdraft limits (if any) Enjoyed by the firm		Rs.	
6	Income Tax paid during the last three Years	Year 20 ___ - __	Rs.	
		Year 20 ___ - __		
		Year 20 ___ - __		
		(Year 20___ - __)		
7	Please state whether audited profit and Loss Account and Balance Sheet for last 3 Years and Solvency Certificate are Enclosed.			Yes / No
Note: All the above documents should be duly certified by auditors/bank as may be applicable.				
Signature of the Bidder				

BAP:ERN:NTPL:TUTICORIN:ESP:MECH:C-283


 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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ORGANISATION STRUCTURE


1. **Management structure of the firm:**
Whether public limited / Private Limited / Sole Proprietorship / Partnership.
2. **Details of the staff presently on permanent rolls of the organization.**
 - a) **Engineering / Supervisory Staff.**

Sl No	Name and Designation	Qualification	Experience Years	Proposed to be deployed at site for this job	Remarks If any

Signature of the Tenderer

 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT		STATUTORY REQUIREMENT OF CONTRACT ES : F : 009		
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ORGANISATION STRUCTURE					
b) Details of Technical staff:					
Sl No	CATEGORY	Total Number on Rolls	Numbers Proposed to be deployed at site for this job		
1	Supervisors / Foreman				
2	Store Keepers				
3	Electrician				
4	Fitters				
5	Welders				
6	Sarang				
7	Rigger				
8	Painter				
9	Light Vehicle Driver				
10	Heavy vehicle Driver				
11	Semi-skilled worker				
12	Unskilled Worker				
13	Crane Operators				
14	Crane Maintenance Staff				
15	Other vehicles maintenance staff				
16	Other category of staff, if any				
Signature of the Tenderer					

 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT		STATUTORY REQUIREMENT OF CONTRACT ES : F : 009	
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SCHEDULE TO BE FURNISHED BY THE TENDERER				
<p>1. Bidder shall submit the following technical proposal documents (a detailed write-up on his erection plan) along with the offer indicating the proposal to achieve the milestone dates, giving details of erection sequence, manpower deployment plan and T&P deployment plan for the various erection activities. The bidder shall submit histograms for Equipment, Staff and Labour to be deployed on the Work.</p> <ol style="list-style-type: none"> Method Statements along with appropriate drawings for pre-assembly works, dismantling works and erection works Site establishment plan based on the ESP layout drawing provided, showing the locations of site office, storage yard, tower crane location, mobile crane/ trailer movement to facilitate the pre-assembly works, dismantling works and the erection works Cycle time calculations for critical activities Rated Load chart, Range diagrams, Manual of the proposed tower crane Rated Load chart, Range diagrams, Manual of the proposed mobile crane <p>2. Bidders are required to submit details for the above. Bids received without above documentary proof are liable to be rejected.</p> <p>3. The Tenderer is required to submit the following schedule along with his offer.</p>				
Schedule-A	PERT / CPM Bar Chart showing Work Breakdown Structure, time schedule and Milestone dates			
Schedule-B	Schedule of Plant, Equipment and Tools			
Schedule-C	Schedule of Project Staff (identifying skill and work area)			
Schedule-D	Schedule of Labour -Day wise deployment of skilled / semiskilled / unskilled and other categories of workers to suit the above programme.			
Schedule-E	Schedule of Consumables (LPG, Oxygen, Welding Electrodes, etc.,)			
Schedule-F	Day wise schedule of erection quantities			
Schedule-G	Construction power / electricity required for / Office / stores / workshop sheds, etc. of the tenderer in the following format.			
Electricity required for		Average	Peak	
Construction : (Scope of work covered in this tender)	Amp			
	KVA			
Office & Storage sheds	Amp			
	KVA			
Note-1	Tender offers are liable to be rejected in the event of non-submission of above schedules along with the offer complete with all the details asked for.			
Note-2	Contractor may also indicate their ability in completing the contract in a period shorter than that mentioned.			
Date :				
SIGNATURE OF THE BIDDER				


 Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT		STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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ANALYSIS OF UNIT RATE QUOTED (Only Percentages to be Quoted)			
Sl-No	Description	Percentage of the rate quoted	Remarks, If any
1	Site facilities viz. electricity, water, workshop and other infrastructure facilities		
2	Salary & wages for staff and workers		
3	Consumables a) Gases b) Electrodes c) Steel materials d) Others		
4	Depreciation and maintenance for T&P, other items		
5	Establishment and Administration expenses of sites		
6	Retrenchment benefit		
7	Overheads		
8	Extra work incidental to erection		
NOTE: All Bidders are requested to take care that the rates quoted by them are not disclosed in any way while furnishing the above details.			
Date :		SIGNATURE OF THE BIDDER	


SI-No	Name of the equipment	Total Qty Available	Qty proposed to be deployed	Type, capacity, Specification	Year of Make	Date of Purchase	Registration Number	Present Location	Utility factor of the Machine
29	Gas Welding and cutting accessories with 20M long hose								
30	Spirit level 0.02 mm/M								
31	Tacho Meter								
32	Megger								
33	Various sizes of portable grinders								
34	Bench grinder								
35	Heavy duty high speed portable grinder								
36	Flexible shaft grinders								
37	Pneumatic drill ½" & 1"								
38	Torque wrenches 300mm 450mm 600mm								
39	Pull lifts 1.5T Capacity 3T Capacity 6T Capacity								
40	Compensating Cables								
41	Steel wire ropes for guy ropes								
42	Bench files of various sizes								

NOTE: Details of Maintenance facilities to be provided at Site for maintaining the various Equipment:

Date :

SIGNATURE OF THE BIDDER

 Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT Ranipet	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009					
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B-I ANALYSIS OF SIMILAR JOBS EXECUTED / IN PROGRESS IN THE LAST SEVEN YEARS						
SI-No	Details of Jobs Executed/ In Progress with Location of Projects	Financial Value of the contracts	Number of Strikes/ Work Stoppages with duration and Mandays Lost	Number Accidents Fatal/Minor	Details of the Insurance provided for the workers for Accidents/ Deaths	Details of safety equipments provided to workers
Use Annexures-If required						
Signature of the Bidder						

 BHEL Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT						STATUTORY REQUIREMENT OF CONTRACT ES : F : 009	
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B – II								
Previous Experience (FOR ESP PROJECTS ONLY)								
SI-No	Name of the Project with unit capacity	Date of Letter of Intent	Date of Start of Erection	Date of Collecting Electrode Loading	Trail run of rapping Motors	Date of Air Tightness Test	Date of GD Test	Testing & Commissioning
Use Annexures-If required								
Signature of the Bidder								

SPECIAL CONDITIONS OF CONTRACT

FOR

MECHANICAL WORKS

BAP:ERN :SPN :MECH: ESP:02



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

SECTION –IV

SPECIAL CONDITIONS OF CONTRACT FOR ERECTION

- 4.1** SPECIAL CONDITIONS FOR ESP The special conditions for ESP shall be comprising of but not limited to the following:
- 4.1.1** Any fixtures, concrete block supports, steel structures, required for temporary supporting for pre-assembly, checking, welding, lifting and handling during pre-assembly and erection shall be arranged by contractor, at his cost.
- 4.1.2** The scope of equipments to be erected under this contract are detailed in tender specification, Technical Description etc. The schedule of weights given are approximate and are meant only to give a general idea to the Tenderer about the magnitude of the work involved.
- 4.1.3** All works such as cleaning, leveling, blue-matching, aligning, assembling for temporary erection and alignment, dismantling of certain equipments for checking/cleaning, surface preparation, fabrication of tubes and pipes as per general engineering practice at site. Cutting, grinding, straightening, chamfering, filling, chipping, drilling, reaming, scraping, shaping, fitting up etc., as may be applicable in such erection work are to be treated as incidental to erection and necessary to complete the work satisfactorily, shall be carried out by the Contractor, as part of the work.
- 4.1.4** It shall be the responsibility of the contractor to provide ladders on columns for initial work till such time stairways are completed. For this, the ladder should not be welded on the column and should be pre-fabricated clamping type ladders. Temporary welding on any structural member is permitted under special circumstances only with the approval of BHEL.
- 4.1.5** No member of the structure/platform should be cut without specific approval of BHEL.
- 4.1.6** Welding of necessary instrumentation tapping points, will also be the responsibility of the Contractor and will be done as per the instructions of BHEL Engineer. The welding of all the above items will be Contractor's responsibility even if the
- 1) Product groups under which these items are not specifically indicated in the technical Specifications.
 - 2) Items are supplied by an agency other than BHEL.
- 4.1.7** All welded joints should be painted with anti-corrosive paint. Daily welding reports in the proforma suggested by BHEL should be submitted the next day morning without fail.
- 4.1.8** All rotating machineries and equipment shall be cleaned, lubricated, checked for their smooth rotation if necessary by dismantling and refitting before erection. If in the opinion of BHEL Engineer, the equipment is to be checked for clearance at any stage of work or during commissioning period, all such works are to be carried out by Contractor at his cost.
- 4.1.9** Contractor shall carry out chipping and blue matching of foundation concrete with the packer plates. The packer plates shall be supplied by BHEL. Necessary machining and blue matching of packer plates shall be carried out by the contractor with in the quoted rates.
- 4.1.10** The contractor shall take all reasonable care to protect the materials and equipments during stacking and erection. Preservative painting required to be done on any equipment or part during the course of stacking and erection will have to be done by the Contractor at no extra cost to BHEL. Paints and all other materials shall be arranged by the contractor.
- 4.1.11** Electrostatic precipitator collecting electrodes may require strengthening and repair due to minor transport damages before erection and spot heating in position to get correct alignment. This shall be carried out by the contractor as part of the work.
- 4.1.12** Erection, alignment/ fixing in final position of HIGH VOLTAGE RECTIFIER Transformer of ESP are in the scope of work. However testing and commissioning will be done by other agencies.
- 4.1.13** Installation of **High voltage Interlocks** (excepting rotary switch interlock in EC Panels) is in the scope of work.
- 4.1.14** **AIR-IN LEAKAGE TEST , if required / called for**, has to be carried out after erection of ESP and before clearing for insulation. Necessary equipment like air blower, venturi, instrumentation etc. will be provided by BHEL free of charges. Handling at stores, transport, erection, commissioning, carrying out the leakage test and attending to leakages till satisfactory sealing / leak proof shall be in thje scope of work. Contractor shall dismantle the test equipment and return to BHEL stores in good condition after due reconciliation, cleaning, servicing. No separate/ additional payment is envisaged for the above.

- 4.1.15** Complete erection, alignment, testing, pre-commissioning etc. of drive motors of collecting electrode and emitting electrode rapping mechanism is in the scope of work.
- 4.1.16** Additional platforms of permanent nature for approaching different equipments, as per site requirements which may not be indicated in drawings, shall be installed by the contractor. The materials required for platforms will be supplied by BHEL in running meters at free of cost.
- 4.1.17** All welders shall be tested and approved by BHEL Engineer / client of BHEL before they are actually engaged on work. BHEL reserve the right to reject any welder without assigning any reason.
- 4.1.18** In case of any class of work for which there is no such specifications as laid down in the contract, such work shall be carried out in accordance with the instructions and requirements of BHEL Engineer at the quoted rates only.
- 4.1.19** BHEL Engineer is entitled to stop any welder from his work if found unsatisfactory for any technical reason or there is a high percentage of rejection the work welded by him which, in the opinion of BHEL Engineers, which adversely affect the quality of welding, though the welder has earlier passed the tests.
- 4.1.20** All charges for testing of welders including destructive and non-destructive tests shall have to be borne by the contractor.
- 4.1.21** All welded joints shall be subject to acceptance by BHEL Engineer/client.
- 4.1.22** The contractor shall make suitable security arrangements including employment of security personnel (round the clock) to ensure the protection of all materials/equipments and works from theft, fire, pilferage and any other damage and loss at stores/storage yard/pre-assembly area/erection site, till the contract is getting over.

4.1.23 APPLICATION OF INSULATION & CLADDING

1. Application of insulation and sheet metal covering includes leading the materials from stacking area/storage sheds to the place of work
2. The insulation work should be carried out with contractor's own scaffolding materials, tools etc.
3. Welding of hooks, supports as per pitch/applying red oxide paint to welded portion as directed and as per the drawings before application of Mineral Wool / Glass Wool mattresses and as instructed by BHEL Engineer.
4. Wool insulations are received at site as bonded / unbonded mattresses in standard sizes. These are to be dressed / cut to suit site requirement by the Contractor.
5. Applying anti-corrosive paint to the inner surface of GI/ALUMINIUM Cladding, Cutting suitable to size, shape grooving and fixing on holders as instructed and as per drawings and specifications. Application of Bituminous Sealing Compound on top of cladding joints shall be done. SUPPLY OF BITUMINOUS SEALING COMPOUND AND ANTICORROSIVE PAINT IS UNDER THE SCOPE OF CONTRACTOR.
6. The contractor should ensure that the finished surface of insulation confirms to dimensions and tolerances given in the drawings. Aesthetic finish & accuracy of work and time are most important.
7. Details of application of insulation and GI/Aluminium cladding are given in the various drawings of BHEL supplied to the Contractor.
8. Insulation of ESP shall be by welding of studs with retainers in a spacing of 480mm X 240mm, lagging of mineral wool/ LRB wool mattresses over the retainers, sewing the mattress, fixing up of top retainers, fixing casing supports, tying binding wire over the wool, fixing of GI/Al sheets over the wool mattresses, using self tapping screws (at spacing of 150mm for both vertical and horizontal joints) and application of bituminous sealing compound for vertical joints of sheets. The cladding sheets shall be end grooved and creased to obtain proper shape and strength as per drawing of BHEL. The contractor shall arrange required scaffoldings to undertake the work.
9. Insulation of ESP inner roof shall be by welding of studs in a spacing of 480mmX480mm, lagging of mineral wool/LRB wool mattresses, sewing the mattresses, fixing the top retainers and tying of binding wire over the wool mattresses.

4.1.24 APPLICATION OF PAINT:

4.1.25 TESTS

1. The contractor shall supply manpower and consumables to carry out the required tests on the equipment such as Air-in leakage Test (using air blower provided by BHEL), Gas tightness test by smoke test method or kerosene method and other tests such as Gas Distribution test, Performance Guarantee test etc., to be specified by the Resident Engineer, BHEL at free of cost. Contractor's quoted

rate shall include blanking of hopper, funnel and ducts to conduct air-in leakage test, smoke test etc. and all other contingencies such as checking of coupling alignments, various clearances between stator and rotor components, bearing clearing, trial runs etc.

2. All the above tests should be repeated till all the equipments satisfy the requirement/obligation of BHEL to their customer.
3. **PRE-COMMISSIONING TEST AND COMMISSIONING OF THE UNITS:**
 - 9.1.1. Commissioning of the equipments will involve trial runs of all the equipments erected, and any other works incidental to commissioning. Contractor shall supply labour for all these without any extra cost under this contract.
 - 9.1.2. In case any defect is detected during tests, trial runs such as loose components, undue noise or vibration, strain on connected equipment etc., the Contractor shall immediately attend to these defects and take necessary corrective measures. If any re-adjustment and re-alignment are necessary, the same shall be done as per BHEL Engineer's instructions. If any part of the equipment needs repair, rectifications or replacement, the same shall be done by the Contractor at his cost. The parts to be replaced shall be provided by BHEL.
 - 9.1.3. During this period, though the BHEL's/Client's staff will also be associated in the work, the Contractor's responsibility will be to arrange for the complete labour requirement for the successful trial run of equipment till it is handed over to customer.
 - 9.1.4. It shall be specifically noted that the above employees of Contractor may have to work round the clock along with the BHEL Commissioning Engineers and hence any overtime payment so involved, the Contractor's quoted rates shall be inclusive of all these factors also.
 - 9.1.5. During commissioning, re-aligning of rotating and other equipment, attending to leakages and minor adjustment of erected equipment may arise. The quoted rate of Contractor shall be inclusive of all such works.
 - 9.1.6. In case any rework is required because of Contractor's faulty erection which is noticed during commissioning the same has to be rectified by the contractor at his cost. If, during commissioning, any improvement or rectification due to design requirements is involved the same shall be paid at man-hour rates quoted. For this purpose, daily labour report indicating there in, nature of work carried out, consumables used etc., shall be maintained by contractors and for signed by BHEL Engineers every day.

4.1.26 PROGRESS OF ERECTION WORK:

1. During the course of Erection, if the progress is found unsatisfactory, or if the target dates are to be advanced, or in the opinion of BHEL if it is found that the welders employed are not sufficient, BHEL will induct on work their own welders, in addition to Contractor's welders working and recover from the Contractor's bills the charges incurred for engaging the welders with the overheads. This is binding on the Contractor.
2. In case the Contractor's progress is found unsatisfactory, BHEL may deploy unskilled, semi-skilled, skilled operators, Technicians and other required manpower and will assist in improving the progress. All the expenses incurred for, will be recovered from Contractor's bills with overheads.
3. It is obligatory on the part of the Contractor to give daily feed back on progress of erection.

4.1.27 PAYMENTS FOR WORK COMPLETED:

1. The Tenderer shall quote separate rates for each of the categories of work in the rate schedule appended. No eraser should be used and no overwriting is acceptable.
2. Subject to any deduction which BHEL may be authorized to make under the contract, the Contractor shall on the certificate of the Engineer at site, be entitled for payment as explained in the payment terms.

4.2 SCOPE OF DISMANTLING:

The Scope of work will comprise of but not limited to following:

- 4.2.1 Disconnection and dismantling of existing mechanical structures / components to the extent required at site for revamping of the system as per the instruction of Site in-charge, loading of dismantled components to transport equipments, transportation to BHEL'S Clients storage yard after weighment if required and unloading etc., by supplying required manpower, all consumables and using contractors own trucks, lorries, tractors, trailers, cranes and other unloading, transporting and material handling equipments (having valid permission for their operation)

4.2.2 PROGRESS OF DISMANTLING WORK:

1. During the course of dismantling if the progress is found unsatisfactory, or if the target dates to be advanced, or in the opinion of BHEL if it is found that the workers employed are not sufficient BHEL will induct on work their own workers in addition to contractor's workers and recover from the contractors bills the charges incurred for engaging the workers with the overheads. This is binding on the contractor.
2. In case the contractor's progress is found unsatisfactory, BHEL may deploy gas cutters, fitters and technicians etc., and will assist in improving the progress. All the expenses incurred for will be recovered from contractors bill with overheads.
2. It is obligatory on the part of the contractor to give daily feedback on progress of dismantling.

4.3 SPECIAL REQUIREMENTS

- 4.3.1 The entire work of erection, testing and commissioning of the ESP shall be completed within the time specified in the time schedule.
- 4.3.2 The contractor has to indicate their ability in completing the contract in all respects shorter than the period mentioned in the time schedule.
- 4.3.3 As time is the essence of this contract, the contractor shall be able to mobilize his manpower round the clock for the entire period to complete the work within the stipulated time.
- 4.3.4 The contractor should be able to mobilize all the tools, plants and consumables necessary for three shifts operation to meet the requirements.

4.4 IMPORTANT GENERAL & SPECIAL CONDITIONS OF CONTRACT :

4.4.1 RETURN OF SECURITY DEPOSIT:

If the contractor fully performs and completes the work in all respects to the entire satisfaction of BHEL and their client and presents an absolute "No Demand Certificate" in the prescribed form and returns properties belonging to BHEL, handed over / lent to them for carrying out the said works, security deposit will be released to the contractor after deducting all the cost of expenses, if any, under other contracts entered in to with the contractor. It may be noted that in no case the security deposit shall be refunded /released prior to passing of the final bill.

4.4.2 IDLE LABOUR

If the contractor suffers delay in the due execution of the contractual obligation due to delays caused by FORCE MAJEURE conditions, the agreed time of completion of the contract shall be extended by a period of time equal to the period of delay provided that on the occurrence of any such contingency, the contractor immediately reports to BHEL in writing about the causes of delay. The contractor shall not be eligible for any other compensation.

4.5 RIGHTS OF BHEL IN CASE OF POOR PROGRESS OF WORK:

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

SECTION-V

5.1 Scope of Contract

The indent of this specification is to provide services for execution of projects according to most modern and proven techniques and codes. The omission of specific reference to any method, equipment or material necessary for the proper and efficient services towards the work allotted shall not relieve the contractor of the responsibility of providing such services/facilities to complete the project or portion of project awarded to him. The quoted rate shall deem to be inclusive of all such contingencies.

- 5.1.2 The contractor shall carry out the work in accordance with instructions/drawings/specification standard practices supplied by BHEL from time to time.
- 5.1.3 Provision of all types of labour, supervisors, Stores staff, watch and ward as required, tools and tackles, consumables as specified under various clauses of Tender Specification for unloading, erection, testing and commissioning and dismantling of existing structures.
- 5.1.4 Proper out turn as per BHEL plan and commitment.
- 5.1.5 Completion of work in time.
- 5.1.6 Good quality and accurate workmanship for proper performance of equipment.
- 5.1.7 Repair and rectification.
- 5.1.8 Re-conservation/preservation of all components.

5.2 FACILITIES TO BE PROVIDED AND DEVELOPED BY THE TENDERER AT HIS COST

- 5.2.1 It shall be the responsibility of the contractor to construct his own office shed, stores shed, labour tonements, with all facilities like electricity, water supply, sanitary arrangements in the area allotted to him for the purpose.
- 5.2.2 Distribution of water for construction purposes and as well as drinking purpose from the single point provided by BHEL to various works fronts shall be the Contractor's responsibility and at his cost.
- 5.2.3 Necessary meters for recording consumption of water and power for cost analysis purpose and maintenance of the same during execution period shall be Contractor's responsibility.
- 5.2.4 Provision for distribution of electrical power from the given single central point to the required places with proper distribution boards, approved cable laying, including supply of all materials like cables, switch boards, pipes, etc., observing the safety rules laid down by the Electricity Authority of the State/BHEL/their customer shall be the responsibility of the tenderer /contractor.
- 5.2.5 As there are bound to be interruptions in regular power supply, power cut/load shedding in any construction site due to inherent power shortage in State on this account, suitable extension of time only be given and contractor is not entitled for any compensation. Such interruptions should be intimated to BHEL by the contractor timely It shall be the responsibility of the contractor to have at least a few diesel operated welding generator sets to get urgent and important work done with out interruption.
- 5.2.6 Adequate lighting facilities such as flood lamps, 24V Safety lamps and area flood lighting shall be arranged by the Contractor at the site of constructions, pre-assembly area, Contractor's material storage area and at access roads etc., at his cost.
- 5.2.7 For the purpose of Planning, Contractor shall furnish along with tender, the estimated requirement of power (month wise) for execution of work in terms of maximum KW demand.
- 5.2.8 On completion of work, all the temporary buildings, structures, pipelines, cables etc. shall be dismantled and leveled and debris shall be removed as per instruction of BHEL by the contractor at his cost. In the event of his failure to do so, the same will be arranged to be removed and expenditure therefore will be recovered from the Contractor. The decision of BHEL Engineer in this regard is final.
- 5.2.9 The Contractor shall provide all materials required for scaffolding, form work and centering wherever necessary for erection should arrange at his cost.
- 5.2.10 Depending upon the nature of work and availability of facilities locally, Contractor may have to arrange for a temporary work-shop for facilitating uninterrupted progress of work.
- 5.2.11 The contractor shall secure and maintain comprehensive including third party insurance for appropriate amount to protect your and our interest against all risk and claims to the men/women or for labour force. If failure in securing the insurance policies in this regard shall not absolve you from reimbursing to us for any loss / damages / injuries or death to any person.

- 5.2.12** The contractor shall be fully responsible for obtaining labour licence/approval if any, from State/Central/Local authorities at his own cost and risk.
- 5.2.13** It is the responsibility of contractor to obtain approval from statutory authorities like pollution control board, Factory Inspectorate etc., if necessary.
- 5.3 GASES**
- 5.3.1** All required gases like oxygen / Acetyllene / LPG for the work shall be supplied by the Contractor at his cost. It shall be the responsibility of the Contractor to plan the activities and store sufficient quantity of these gases Non-availability of gases cannot be considered as reason for not attending the required progress.
- 5.3.2** In case of improper arrangement of above gases, BHEL reserves the right to procure the same from any source and recover the cost from the Contractor's bill at market value plus BHEL departmental charges as may be fixed from time to time and postponement of recoveries is not permissible. The decision of BHEL Engineer in this regard is final and binding on the Contractor.
- 5.3.2** BHEL reserves the right to reject the use of any gas in case the required purity is not maintained.
- 5.3.3** The Contractor shall submit Weekly / fortnightly / monthly statements / reports regarding consumption of above gases for cost analysis programme.
- 5.3.4** The Contractor shall ensure safekeeping of the inflammable cylinders at separate place away from normal habit with proper security etc.
- 5.4 ELECTRODES**
- 5.4.1** All the electrodes required shall be arranged by Contractor at his cost. It shall be the responsibility of the Contractor to obtain prior approval of BHEL before procurement, regarding suppliers, type of electrodes etc. On receipt of the electrodes at site, it shall be subjected to inspection and approval of BHEL. The Contractor shall inform BHEL, the details regarding type of electrode, batch number, date of expiry etc.
- 5.4.2** Storage of electrode shall be done in an air-conditioned / controlled humidity room as per requirement.
- 5.4.3** Shortage of any of the electrodes for the equipment suggested by BHEL shall not be quoted as reason for deficiency in progress or for additional rate.
- 5.4.4** BHEL reserves the right to reject the use of any electrodes at any stage, if found defective because of bad quality, improper storage, quality, date of expiry, unapproved type of electrodes etc. It shall be the responsibility of the Contractor to replace at his cost with out loss of time.
- 5.4.5** All electrodes shall be dried in the electrodes drying oven to the temperature and period specified by BHEL Engineer before they are used for erection work. Electrode drying ovens shall be provided by the contractor.
- 5.4.6** In case of improper arrangement for procurement of above electrodes, BHEL reserves the right to procure the same from any source and recover the cost from the Contractor's first subsequent bills at market value plus the departmental charges of BHEL communicated from time to time. Postponement of such recovery is not permitted.
- 5.4.7** Contractor shall submit weekly / fortnightly / monthly statement / reports regarding consumption of electrodes of all types for cost analysis purpose.
- 5.5 CRANE AND OTHER TOOLS AND TACKLES**
- 5.5.1** All the T&P including Cranes, trucks, Lorries, tractors, trailers etc required for the satisfactory execution of work shall be arranged by the Contractor. BHEL will not arrange any Tools and Plants.
- 5.5.2** All the T&P arranged by the Contractor including electrical connection wherein required shall be reliable / proven tested with necessary test certificate.
- 5.5.3** All the T&P, lifting tackles including wire ropes, slings, shackles and electrically operated equipments arranged by Contractor shall be got approved by BHEL Engineer before they are actually put on use.
- 5.5.4** Civil works required for safe and efficient operation of tools and tackles shall be the Contractor's responsibility.
- 5.5.5** Contractor shall take into consideration the above clauses and quote the rates as called for in the rare Schedule.
- 5.6 SUPERVISORY STAFF AND WORKMEN**
- 5.6.1** The Contractor shall supply all skilled workmen like welders, gas cutters, riggers, erectors, carpenters, fitters, electricians etc., in addition to other skilled, semi-skilled, unskilled workmen required for all the works of receipt, material handling, transportation, erection, testing and commissioning & dismantling

contemplated under this specification. Only fully trained and competent men with previous experience in the job shall be employed. They shall hold certificates wherever necessary. 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 or removal of any employee of the Contractor shall for with remove him.

- 5.6.2** The supervisory staff employed by the Contractor shall ensure proper out-turn of work and discipline on the part of the labour put on the job by Contractor and in general see that the works are carried out in a safe and proper manner and in co-ordination with other labour and staff employed directly by BHEL or other contractors of BHEL or BHEL'S client.
- 5.6.3** The contractor shall also furnish daily labour report showing by classification the number of employees engaged in various categories of work and a progress report of work as required by BHEL Engineer.
- 5.6.4** The work shall be executed under the usual conditions affecting major power plant constructions and in conjunction with numerous other operations at site. The Contractor and his personnel shall co-operate with other personnel and proceed in a manner that shall not delay or hinder the progress of work as a whole.
- 5.6.5** The Contractor's supervisory staff shall execute the work in the most substantial and work man like manner in the stipulated time Accuracy of work and aesthetic finish are essential part of this contract. The contractor shall be responsible to ensure that assembly and workmanship conform to the dimensions and tolerances given in the drawings/instructions given by BHEL Engineers, from time to time.
- 5.6.6** The Contractor shall employ the necessary number of qualified and approved full time electricians at his cost to maintain his temporary electrical installation till the completion of work.
- 5.6.7** It is the responsibility of the Contractor to engage his workmen in shifts or on over time basis for achieving the target set by BHEL and also during the period of commissioning and testing The Contractor's quoted rate shall include all these contingencies.
- 5.6.8** In case Contractor's progress is found unsatisfactory BHEL may deploy fitters, welders, operators and technicians on BHEL rates and will assist in improving the progress. All expenses incurred for will be recovered from Contractor's bill.
- 5.6.9** If the Contractor or his workmen or employees shall break, deface, injure or destroy any part of building, road kerb, fence, enclosure, water pipes, cables, drains, electric or telephone posts or wires, trees or any other property or to any part of erected components etc., the Contractor shall make the same good at his own expense or in default, BHEL may cause the same to be made good by other workmen or by other means and deduct the expenses (of which BHEL'S decision is final) from any money due from the Contractor.

5.7 CIVIL WORKS : NOT APPLICABLE

5.8 Scope of material handling

- 5.8.1** While BHEL will endeavor to store/stack/identify materials properly in their open/closed storage yard/shed, it shall be Contractor's responsibility to assist BHEL in identifying materials well in time for erection, taking delivery of the same, following the procedure indicated by BHEL and transport the materials safely to pre-assembly yard, erection site in time, according to programme.
- 5.8.2** The Contractor shall identify necessary supervisor/labour for the above work in sufficient quantity as may be needed by BHEL for areas covering their scope.
- 5.8.3** It shall be the Contractor's responsibility to arrange for necessary crane/tractor/trailor or trucks/slings/tools and tackles /labour/including operators for loading from storage yard on to transport equipment, move it to erection site/pre-assembly yard and unload the same at pre-assembly yard/erection site and to erect the ESP and the quoted rate shall include the same. Tenderers may please note that the storage yards are at an approximate distance of 5.0.km from erection site.
- 5.8.4** All equipments so used by Contractor shall be of proven quality and safe in operation as approved by BHEL Site Engineer's from time to time.
- 5.8.5** Any loss/damage to materials issued to Contractor shall be made good by him or BHEL will arrange for replacement at cost recovery basis and decision of BHEL shall be final.
- 5.8.6** The Contractor shall take delivery of components and equipment and special consumables from storage area after getting the approval of BHEL Engineer on standard indent forms.
- 5.8.7** In the event of Contractor's inability to arrange in time any of the above equipment/T&P etc., if possible BHEL shall provide the same on specific written request from the Contractor subject to the availability of equipment on the normal hire charges of BHEL, applicable from time to time and recoverable from Contractor's subsequent month's running bills.

- 5.8.8** All the surplus, damaged unused materials, package materials/containers, special transporting frames, gunny bags etc. supplied by BHEL shall be returned to BHEL Stores by the Contractor.
- 5.8.9** The Contractor shall have total responsibility for all equipment and materials in his custody, stores, loose, semi-assembled, assembled or erected by him at Site.
- 5.8.10** The Contractor shall make suitable security arrangements (round the clock) including employment of security personnel to ensure the protection of all materials/equipments and works from theft fire, pilferage and any other damage and loss at Site.
- 5.8.11** The Contractor shall ensure that all the packing materials and protection devices used for the various equipments during transit and storage are removed before these equipments are installed.
- 5.8.12** All equipment shall be handled very carefully to prevent any damage or loss. No bars, wire ropes, slings etc., shall be used for unloading and/or handling of the equipment without the specific written permission of the Engineer. The equipment from the storage yard shall be moved to the actual site of erection/location at the appropriate time as per the direction of BHEL Engineer so as to avoid damage for such equipment at Site.
- 5.8.13** The Contractor shall take all reasonable care to protect the materials and work till such time the erected equipment has been taken-over by BHEL/their client. Whenever necessary suitable temporary fencing and lighting shall have to be provided by the Contractor as a safety measure against accident and damage of property of BHEL, suitable caution notices shall be displayed where access to any part may be deemed to be unsafe and hazardous.
- 5.8.14** The Contractor shall be responsible for taking all safety precautions during the constructions and leaving the site safe at the end of each working day and at all times. When the work is temporarily suspended, he shall protect all construction materials, equipment and facilities from causing damage to existing property interfering with the operation of the station when it goes into service. The contractor shall comply with all applicable provisions of the safety regulations, clean up programme and other precautionary measures, which the BHEL has in effect at the Site.
- 5.8.15** All lifting tackles including wire ropes, slings, shackles etc., used by the Contractor shall be got approved by BHEL Engineer at Site before they are actually put on the work.
- 5.8.16** The Contractor shall take delivery of equipment from storage yard/stores/sheds. He shall also make arrangements for verification of equipment, scrupulously maintain records and keep safe custody, watch and ward of equipment after it has been handed over to him till these are fully erected and tested and commissioned and taken over by BHEL's client. The stolen/lost/damaged goods shall have to be made good by the contractor at his own cost.
- 5.9 Preservation of Components**
- 5.9.1** The Contractor shall effectively protect the finished work from action of weather and from damage or defacement and shall cover the finished parts then and there for their protection.
- 5.9.2** Any failure on the part of the Contractor to carry out works according to above clauses will entail BHEL to carry out the job from any other party and recover the cost from the Contractor.
- 5.10 DRAWING AND DOCUMENTS:**
- 5.10.1** The detailed drawings, specifications, available with BHEL Engineers will form part of this Tender Specification. These documents will be made available to the Contractor during execution of work at site.
- 5.10.2** One set of necessary drawings to carry out the erection work will be furnished to the Contractor by BHEL on loan, which shall be returned to BHEL Engineer at Site after completion of work. Contractor's personnel shall take care of these documents given to them.
- 5.10.3** Should any error/ambiguity be found in the specification or information, the Contractor shall bring the same to the notice of BHEL before commencement of work. BHEL's interpretation in such cases shall be final and binding on the Contractor.
- 5.10.4** The data furnished in various appendices and the drawings enclosed with this tender specification describes the equipment to be installed, tested and commissioned under this specification briefly. However, the changes in the design and in the quality may be expected to occur as is usual in any such large scales of work.
- 5.10.5** Deviation from design dimensions should not exceed permissible limit. The Contractor shall not correct or alter any dimension/details, without specific approval of BHEL.
- 5.11 SITE CLEANLINESS AND SAFETY REQUIREMENTS:**

- 5.11.1** During the course of construction, alternation or repairs, scrap lumber with protruding nails, sharp edges etc., and all other debris shall be kept cleared from working areas, passageways and stairs in and around Site. Proper house keeping is the responsibility of the Contractor.
- 5.11.2** Combustible scrap and debris shall be removed at regular intervals during the course of construction. Safe means shall be provided by the Contractor to facilitate such removal. If this is not done regularly, BHEL will get the job done and debit the cost to Contractor.
- 5.11.3** Rigging equipment for material handling shall be inspected prior to use of each shift and as necessary during its use to ensure that it is safe. Defective rigging equipment shall be removed from service. Necessary test certificates have to be provided by the Contractor for the rigging and handling equipment brought by them. Otherwise this will be got to be done by BHEL and the cost will be debited to Contractor.
- 5.11.4** Rigging equipment shall not be loaded in excess of its recommended safe working load.
- 5.11.5** Rigging equipment when not in use shall be removed from the immediate work area so as not to present a hazard to employees.
- 5.11.6** The Contractor will notify the Engineer his intention to bring on to site any equipment or any container with liquid or gaseous fuel or other substance which may create a hazard. The Engineer shall have the right to prescribe the conditions under which such equipment or container may be handled and used during the performance of the works and the Contractor shall strictly adhere to such instructions. BHEL Engineers shall have the right to inspect any construction plant and to forbid its use, if in his opinion it is unsafe. No claim due to such prohibition shall be entertained.
- 5.11.7** Where it necessary to provide and/or store petroleum products or petroleum mixture and explosives, the Contractor shall be responsible for carrying out such provision and/or storage in accordance with the rules and regulations laid down in the relevant petroleum Act., Explosive Act and Petroleum and Carbide of Calcium Manual, published by the Chief Inspectorate of Explosives of India. All such storage shall have prior approvals of BHEL Engineer. In case any approvals are necessary from the Chief Inspector of Explosives of any other statutory Authorities, the Contractor shall be responsible for obtaining the same.
- 5.11.8** Valve protection caps shall be in place and secured.
- 5.11.9** Cylinders shall be moved by tilting and rolling them on their bottom edges. They shall not be intentionally dropped, struck or permitted to strike each other violently.
- 5.11.10** When cylinders are transported by powered vehicles, they shall be secured in vertical position.
- 5.11.11** All the hand lamps used by the contractors workmen shall be of 24V only. Adequate step-down transformers should be installed at site to cater to the complete requirement. (230V hand lamps should not be used).
- 5.11.12** All workmen of the Contractor working in construction areas shall wear safety shoes, safety helmets, & safety belt (with double harness - when working at heights). Contractor shall insure his workmen against all accidents, and the policy shall be presented to BHEL. In case of failure to do so BHEL will arrange the same and the expenditure towards this will be debited to the Contractor including BHEL over heads. In case the Contractor fails to provide necessary safety equipment to workmen, BHEL will provide the same to the workers and recover the cost of equipment along with BHEL overheads.
- 5.11.13** All the above safety conditions are not exhaustive but gives an idea for the Contractor and the Contractor shall adhere to all the safety precautions given by the BHEL Engineer at Site. Such of those workmen who do not follow safety precautions shall be turned out from Site. They will not be allowed to work until they fulfill safety regulations.
- 5.11.14** Contractor shall arrange at his cost suitable flood lighting arrangement at various levels for safe and proper working operations during night hours at the work spot as well as at the pre-assembly area.
- 5.11.15** The Contractor shall be responsible for provision of all the safety notices and safety equipment as enjoined on him by the application of relevant statutory regulations/provisions and/or as called upon by the BHEL Engineer and their client from time to time.
- 5.11.16** The Contractor shall provide temporary fencing wherever required as a safety measure against accident and damage to properties. Suitable caution notices shall be displayed where access to any part is found to be unsafe and hazardous.
- 5.11.17** The Contractor shall ensure the safety of all the workmen, material and equipment either belonging to him or to others working at site.
- 5.11.18** It will be the responsibility of the Contractor to ensure safe lifting of the equipment, taking due precaution to avoid any accidents and damages to other equipment and personnel.

- 5.11.19** The Contractor shall provide necessary first aid facilities for all his employees, representatives and workmen working at Site.
- 5.11.20** All the Contractor's Supervisory personnel and sufficient number of workers shall be trained for fire fighting and shall be assigned specific fire protection duties. Enough number of such trained personnel must be available during the tenure of the Contract. Contractor should nominate one of his supervisors to co-ordinate and for implementation of safety measure.
- 5.11.21** Contractor shall provide enough fire fighting equipment of the types and numbers at his office, temporary structures, labour colony area etc. Access to such fire fighting equipment shall be easy and kept open at all times. Compliance of the above requirement under fire protection shall in no way relieve the Contractor of any of his responsibilities and liabilities to fire accident occurring.
- 5.11.22** The Contractor shall at his cost remove from the vicinity of work, all scrap packing materials rubbish unused and other materials and deposit them in places specified by BHEL engineer to keep the work Site clean and tidy.
- 5.11.23** For this purpose the mechanical completion of erection work shall be deemed to be completed in all respects only when the trial runs of motors and gas tightness tests are completed and certified so by BHEL Engineer. The decision of BHEL in this respect shall be final and binding on the contractor.
- 5.11.24** The commissioning of the unit shall be deemed to be completed in all respects only when all the equipments are tested and commissioned and the Unit is ready for commercial operation.

SPECIAL CONDITIONS OF CONTRACT**SECTION - VI****6.0 PRICE ESCALATION:**

- 6.0.1** The Contractor has to keep his quoted rates firm for the entire contractual period including total extended period, if any, and no claim for revision of rates is allowed under any circumstances.
- 6.0.2** However, the Contractor shall maintain sufficient work force and other resources required for completion of the job expeditiously for the entire contractual period including total extended period.
- 6.0.3** In case due to unforeseen circumstances and due to reasons not attributable to the Contractor, the work gets delayed and completion time gets extended as per Bar Chart from the date of actual start of work at Site, the Contractor shall not be entitled for any over run compensation for a period of first 3 months after the Contractual completion date. However, the contractor shall be paid over run charges for extension in the completion period beyond 3 months as stated above and for reasons not attributable to the Contractor. This shall be mutually discussed and settled at that time.

SPECIAL CONDITIONS OF CONTRACT

SECTION - VII

7.0 EXTRA CHARGES FOR MODIFICATION AND RECTIFICATION WORKS:

- 7.1** BHEL may consider payment for extra works on man-hour basis for such of those works which require major modification of the supplied components which is totally unusual to normal revamping / erection / commissioning work and which are not due to contractor's faulty erection.
- 7.2** The decision of BHEL in this regard shall be final and binding on the contractor. The contractor may submit his work claim bills (specifically agreed by BHEL Engineer) along with the labour sheets duly certified by BHEL Engineer at site. But BHEL may opt to get those work done through other agencies if they so desire.
- 7.3** All the extra works, if any, carried out should be done by a separate gang which should be identified prior to start of work for certification of man-hours. Daily labour sheets should be maintained and should be signed by the contractor's representative and BHEL Engineer. Signing of labour sheets does not necessarily mean the acceptance of extra works. Only those works which are identified as not usual to normal revamping / erection and certified so by the Site-in-Charge of BHEL and accepted by designers/supplier's competent authority only will be considered for payment. The decision of BHEL in this regard shall be final and binding on the contractor.
- 7.4** Average single manhour rate including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, **including consumables** for carrying out any rework / rectification that may arise during the course of revamping shall be **Rs. 40/- per man hour**.
- 7.5** Average single manhour rate including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, **excluding consumables** for carrying out any rework / rectification that may arise during the course of erection shall be **Rs. 25/- per man hour**.
- 7.6** Extra works are broadly defined as below:
- i) Design changes which will be intimated to the contractor after the start of the work which call for dismantling of the erected components, rectification, modification, etc.
 - ii) Repair / rectification of the components damaged during transit and intimated to BHEL before drawing the materials from BHEL stores.
 - iii) Modification, rectification of components wrongly manufactured/fabricated at works subject to acceptance of the approving authority. Any such modification work costing less than 48 Man Hours per work of a DU shall be considered as incidental to erection and shall not be considered for payment.
 - iv) Jobs which require major modification, major repair, major reworks etc. which will be identified as major and warrant extra payment, certified as such by the Site-in-Charge of BHEL and accepted by the designers/competent authority of BHEL. The decision of BHEL in this regard shall be final and binding on the contractor.

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**SPECIAL CONDITIONS OF CONTRACT****SECTION – VIII****8.0 GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION**

- 8.1 For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 8.2 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.
- 8.3 BHEL will inform the vendor in writing, in case of reverse auction, the details of service provider to enable them to contact and get trained.
- 8.4 Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.
- 8.5 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.
- 8.6 BHEL will provide the rate schedule (e.g. EXCEL sheet) for the vendor to enable them to fill-in the price and keep it ready for keying in during the auction. In the event of discrepancy in rate and amount against any item of work, the least of the two will be taken for bid price. In case of discrepancy between the total price indicated in price bid and the arithmetic sum arrived based on rate quoted, then also the least of the two will be taken for the bid price. The bids are compared on the total price quoted and NOT on individual ITEM of works.
- 8.7 Reverse auction will be conducted on scheduled date & time.
- 8.8 At the end of reverse auction event, the lowest bidder value will be known on the network.
- 8.9 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.
- 8.10 Opening bid in reverse Auction: The opening bid (in the reverse Auction) of the bidders shall be same as that quoted in their final sealed price submitted to BHEL(along with Technical offer). The bidder shall confirm in writing to BHEL that their opening bid (in reverse auction) shall be same as that quoted in their final sealed price bids submitted to BHEL against this NIT along with Technical Bid (Patr-1).**If any bidder offered a unsolicited discount or rebate, in separate cover etc. in any place other than the sealed price bid, then the opening price bid in reverse auction, by such a bidder in Reverse Auction, shall be the price offered in final sealed price bid submitted (against this NIT) minus discount offered in any place other than the sealed price bid.**
- 8.11 BHEL reserves the right to cancel Reverse Auction (RA) without assigning any reasons and resort to considering the sealed bids submitted by vendor for processing and finalizing the tender.
- 8.12 In case the process of reverse auction is found unsuccessful by BHEL, then BHEL at its discretion may decide to call the L1 bidder of reverse auction for further negotiation.
- 8.13 Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vender to conduct business with BHEL as per prevailing procedure.
- 8.14 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.
- 8.15 Only those vendors, who participate in the Online Initial Opening Bid, will be eligible to participate in the subsequent Online English Reverse Auction.
- 8.16 Price bids offered by the bidders during reverse auction process is considered as an offer to execute the work. Bids once made by a bidder cannot be cancelled/withdrawn and bidders shall be bound to execute the work at the final bid price. BHEL shall take appropriate action if the bidder fails to do so.

**SPECIAL CONDITIONS OF CONTRACT  
SECTION – IX**

**9. PROCEDURE FOR SUBMISSION OF SEALED TENDERS**

- 9.1. The tenderer must submit their tender in two parts in separate sealed covers prominently superscribed as PART-I TECHNICAL BID AND PART-II PRICE BID and also indicating on each of the covers the TENDER SPECIFICATION NUMBER AND DUE DATE AND TIME OF SUBMISSION as mentioned in the tender notice..
- i) **PART-I (TECHNICAL BID) COVER-I** :Excepting rate schedule, all other documents , data sheets and details called for in the specification shall be enclosed in PART-I “TECHNICAL BID”.
  - ii) **PART-II (PRICE BID) COVER-II** : All indications of price shall be given in this PART-II “PRICE BID” only.
- 9.2. These TWO COVERS I & II (PART-I AND PART-II) shall together be enclosed in **A THIRD ENVELOPE (COVER-III)** along with requisite EMD (in a separately sealed envelope superscribed as “EMD-Cover”) as mentioned in the notice inviting tender and this sealed cover shall be superscribed and submitted to DGM/ERECTION SERVICES at the address given in “special instructions to tenderers” on or before the due date.
- 9.3. In case of submitting of **your offer by email, the following instruction** may be carried out
- i) **PART-I (TECHNICAL BID)**: Excepting Rate Schedule, all other documents , data sheets and details called for in the specification including payment details of EMD( in the form of DD or e-payment reference copy) shall be scanned in PDF format and can be send to email ID: [plramana@bhelrpt.co.in/](mailto:plramana@bhelrpt.co.in) or [rsreedar@bhelrpt.co.in](mailto:rsreedar@bhelrpt.co.in).
  - ii) **PART-II (PRICE BID)** : The signed copy of duly filled price-bid copy may be scanned in PDF format and( a pass word protection may be incorporated for opening of the file) shall be submitted through email to [plramana@bhelrpt.co.in](mailto:plramana@bhelrpt.co.in) or [rsreedar@bhelrpt.co.in](mailto:rsreedar@bhelrpt.co.in).
- 9.4. The Password for opening of this price bid document shall be send to us only at the time of Price- bid opening.

Note:. If price bid file could not be opened due to system error/corrupt file format/incorrect password etc, the offer shall not be considered for further processing..

**TENDER DOCUMENT**  
**(BAP-ERN-NTPL-UNIT-1-ESP-C-283 DT: 13-Apr-2017)**  
**SCHEDULE OF RATES & QUANTITIES**

“Rectification and replacement of damaged ESP fields” involving handling at site stores/ storage yard, transportation to site of work, dismantling of existing ESP components to the extent required, erection, testing and commissioning of new components of Unit#1 at NLC Tamilnadu Power Ltd (NTPL), Tuticorin” using contractor’s own tools and plants, cranes , consumables, manpower etc.

| S.No. | DESCRIPTION OF ITEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Unit | QTY | RATE/UNIT<br>RS. PS. | AMOUNT<br>RS. PS. |
|-------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|----------------------|-------------------|
| A     | <p><b>Rectification and replacement of damaged ESP fields of 1X 500 MW Unit-1 of NTPL.</b></p> <p><b>Brief scope of work:</b></p> <p>Receipt of materials from BHEL/stores, transporting to site of erection, dismantling of existing ESP internals to the extent required, Replacement/rectification/ of ESP internals, transporting of scrap to NTPL scrap yard (with in the boundary), complete alignment of fields inspection, testing and commissioning etc complete and repair works if any in the CE/ EE rapping mechanism. Collecting Electrodes shall be erected from top of the ESP by cut opening of inner roof &amp; outer roof to the extent required. The approximate Wt. to be handled ( i.e. Dismantling &amp; erection) would be 232 MT. The scope includes safe removal and relaying of power and control cables/ cable trays, heater, junction boxes, insulation wool etc which may be found fouling during erection &amp; dismantling of Collecting electrodes.</p> |      |     |                      |                   |
|       | Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |     |                      |                   |
|       | %-Age of Service Tax Applicable if Any                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |     |                      |                   |

**SIGNATURE OF BIDDER**