

TENDER DOCUMENT

TENDER SPECIFICATION No : BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280

NAME OF WORK:

E&C scope of work in Renovation & Modernisation of 2 Nos. of APH model 24.5 VIT 1450 mm including dismantling of existing Air Pre-Heaters and erection & commissioning in 120 MW Captive Power Plant (CPP) of Unit-1 at National Aluminium Company Ltd. (NALCO) at Angul, Odisha 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 : NALCO-ANGUL : APH : MECH :C : 280

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**BHEL / BAP / Ranipet-632406
ERECTION SERVICES DEPARTMENT
SPECIAL INSTRUCTIONS TO BIDDERS**

Page 01 of 01

1. This Booklet consists of the scope and bill of quantities of the entire work etc.
2. The Bidders are requested to go through the instructions contained in the documents attached and quote in the Rate Schedule attached.
3. The Bidders are advised to go through the General conditions of contract, Special conditions of contract, Tender specifications and all parts of this tender document 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. Bidders shall note that all consumables, tools & tackles and **all the required Cranes (mobile / telescopic cranes, etc.), Trucks / Trailers / Tractors, Hoists, Derricks with winches, cutting and welding machines, 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 of contract, special conditions of contract, Annexure etc. by the Bidder.
7. Bidders are requested to carefully study and understand the sequence and schedule of activities as the retrofitting work affects the unit's operation. Time is the essence of the contract and all the resources required for completion of work in the stipulated time period has to be mobilized well in advance of the shutdown/ stipulated date.
8. BHEL is not bound to accept the lowest or any bid and will have the right to reject any or all the bids without assigning any reason whatsoever. It is to be noted that a two-part evaluation system will be used for this tender. Please read the relevant portions of the tender / NIT. Hence it is essential that the tenderer submits a comprehensive technical proposal in their bid.
9. Approval, if any, required from statutory authorities like Labour Commissioner, Electricity Board, etc., should be obtained by the bidder at his own cost and risk.
10. The bidder should mobilize maximum labour force from the local area of work.
11. These Tender Documents are not transferable. Offer of the Bidder with all the required documents should be submitted so as to reach the specified addressee as per schedule given in the notice inviting tender.
12. Address for communication, clarifications etc. and for **ADDRESS FOR SUBMISSION / POSTING OF BID DOCUMENTS**

**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 offers in TWO PARTS are invited from experienced bidders meeting the requisite Qualifying Requirements (QR) for the work mentioned below. Points relevant to the tender are mentioned below and are to be complied with.

1. Tender Specification No. : BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280 Dated: 05-04-2017
2. **NAME OF THE WORK** : E&C scope of work in Renovation & Modernization of 2 Nos. of APH model 24.5 VIT 1450 mm including dismantling of existing Air Pre-Heaters and erection & commissioning in 120 MW Captive Power Plant (CPP) of Unit-1 at National Aluminum Company Ltd. (NALCO) at ANGUL, Odisha using contractor's own tools and plants, cranes , consumables, manpower etc.
3. **EARNEST MONEY DEPOSIT** : Rs.1,35,000/- (Rupees One Lakh Thirty Five Thousand only)
- 3.1 **EARNEST MONEY DEPOSIT (EMD)** : The offer submitted must be accompanied by the prescribed amount of EARNEST MONEY DEPOSIT. EMD shall be remitted along with the tender in the form of pay order or DEMAND DRAFT only drawn in favor of BHARAT HEAVY ELECTRICALS LIMITED payable at BHEL PROJECT,M.R.PURAM,RANIPET. EMD in the form of bank guarantee / fixed deposit receipt or in any other form **will not be accepted.**

- 3.2 **An offer / bid that is not accompanied by the requisite EMD amount is liable to be summarily rejected.**

4. **TENDER SCHEDULE :**

a.	SALE OF TENDER SPECIFICATION DOCUMENTS	05-Apr-2017 to 27-Apr-2017
b.	PRE- BID MEETING	Not Applicable
c.	DUE DATE AND TIME FOR SUBMISSION OF OFFER	27-Apr-2017 at 14.30 Hrs.
d.	DATE & TIME OF OPENING OF TECHNICAL BID	27-Apr-2017 at 14-30 Hrs. onwards

Note : ***Please obtain updated information from the BHEL website about the latest applicable dates.***

5. **PRE BID MEETING** : Not Applicable
6. **OPENING OF TENDER** : Technical bids will be opened on the mentioned date at the office of THE Dy. GENERAL MANAGER, ERECTION SERVICES DEPARTMENT, BAP,BHEL, Ranipet.
- 6.1 In case the opening of the tender is a non-working day then the opening will be done on the next working day.
7. 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.
8. 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.
9. **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 LIMITED payable at BHEL PROJECT,M.R.PURAM,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/-) in the form of DD drawn in favour of BHEL, Ranipet 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.

10. BHEL will not take any responsibility for delay/loss of documents or correspondence sent by courier/post.
11. Acceptance of any bid shall be subject to the approval by BHEL's Customer.
12. BHEL reserves the right to accept or reject any or all the bids without assigning any reasons whatsoever.
13. 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.
14. BHEL reserves the right to reject any offer on the basis of unsatisfactory performance of the bidder in any on going job or any similar job in the past.
15. BHEL will operate CPSE purchase preference policy as applicable.
16. **QUALIFICATION CRITERIA:** The Bidder must satisfy the following Qualification Criteria for participating in the Tender.
- 16.1 The average financial turnover of the company during the last 3 years, ending 28th of Feb 2017, should be at least **Rs:20.16 Lakhs** and the bidder should submit audited balance sheet and profit & loss account for the last three years (2015-2016,2014-2015, and 2013-2014) duly certified by chartered accountant /auditor.
- 16.2 Experience of having successfully completed **either of the following similar works** during the last 7 years ending last day of month previous to the one in which tenders are invited.
- a) One similar work costing not less than the amount equal to **Rs: 53.76 Lakhs**.
- b) Two similar works each costing not less than the amount equal to **Rs: 33.60 Lakhs** .
- c) Three similar works each costing not less than the amount equal to **Rs: 26.88 Lakhs**
- Definition of Similar work: **Retrofitting / Revamping / Renovation / Modification / Modernisation (R&M) of Rotary air Pre- heaters in any power plants / CPP/ Industries of Minimum 120 MW or above rating coal fired boilers.**
- 16.3 The bidder has to submit performance certificate at least from one customer for having successful completion of the similar works.
- 16.4 **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) List of jobs done 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) Certified 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) Certified Photo copies of Audited profit and loss account accompanied by relevant schedules for turn over figures.
17. **Seeking clarification on Tender Specification:** Clarifications, if any shall be sought through written communication only, indicating the specific clauses in the Tender Document, so as to reach the specified office at least seven days before the last date for bid submission. BHEL shall not be responsible for receipt of queries after the due date for seeking of clarification due to postal delay. Any clarification / query received after the last date for seeking the same may not be normally entertained by BHEL and no time extension will be given.
18. BHEL may decide holding pre-bid meeting (PBM) 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. **Bidders are advised to visit the site and completely familiarize themselves with the site conditions for this Retrofit job.**
19. 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 shall 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 desired by BHEL.

20. Offers received with any deviation or without relevant information are liable to be rejected.
21. Price bids received in any form other than prescribed in Part-II (PRICE BID) are liable to be rejected.
22. **VALIDITY OF OFFER** : The validity of the offer shall be 180 days from the date of bid opening (including extensions , if any). No unsolicited revision in the tender offer shall be entertained after opening of tenders and till expiry of the validity period.
23. **CONTRACT PERIOD**: The total contract period shall be 90 Days from the date of commencement of Pre-Shutdown activities. The split-up for the various activities are provided hereunder. The Shut-down (E&C) Activity shall commence from the day of handling over of site by NALCO, Angul.
- | | | |
|------|------------------------------|-----------|
| 23.1 | Pre-Shut-down activities | : 30 days |
| 23.2 | Shut-down (E&C) activities | : 35 days |
| 23.3 | Post-Shutdown Activities for | : 25 Days |
24. **LIQUIDATED DAMAGES: Contract** period is the essence of the contract and the Erection and commissioning should be completed within this time, failing which, BHEL without prejudice to its rights under the contract shall have the option either to reduce the price @1/2% of order value per week or part thereof subject to a maximum of 5% of the unexecuted portion / the total contract value (if the partial execution cannot be used) or to cancel the Order and to execute the said work from alternative source at the risk and cost of the contractor.
25. **ALTERNATIVE ARRANGEMENTS**: If the Contractor fails to fulfill the terms and conditions of the contract, BHEL shall have the right to execution the contract from any other party for execution/ completion of the contract and recover from contractor all charges/expenses/losses/damages suffered by BHEL, at the risk and cost of the Contractor after giving 7 days notice to the seller. This will be without prejudice to the rights of BHEL for any other action including termination.
26. **TERMINATION**:BHEL shall have the right to terminate the contract by giving 7 days notice without assigning any reasons thereof. However, in the event of any breach of terms of the contract, BHEL will have right to terminate the contract by written notice to the seller. BHEL shall have the right to terminate the contract or any part thereof by written notice to the seller in the event of any direction or restriction imposed by the Govt. of India and or the respective State Government(s), which may effect the Contract.
27. **REVERSE AUCTION (RA)**: 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.
28. If the reverse auction is unsuccessful as defined in the RA rules / procedure, or for whatsoever reason, the sealed Price Bids may be opened for deciding the successful bidder.
29. **BID EVALUATION** : The offer submitted by bidders who meet the requisite Qualifying Requirements will be evaluated in two stages, namely Technical- Bid Evaluation and Price Bid Evaluation. The Technical bid will be evaluated as per 'Technical-bid Acceptance Criteria'(TAC) enumerated in ANNEXURE-1 to NIT. The bids which obtain the minimum score specified in the TAC will only be acceptable and further considered for Price Bid Evaluation.
30. Bidders 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.
31. **PRICE BID EVALUATION CRITERIA** : The successful bid shall be based only on the total quoted value for the entire scope of work, in the sealed "Price bid" or RA as applicable.
32. The offers of the bidders who are on the banned list as also the offer of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site "www.bhel.com".
33. **EPF registration** : Bidders should furnish the EPF code and registration details along with the bid. Bidders who have not registered and do not possess EPF code, if awarded the work, should immediately register and obtain the code.
34. **ORDER OF PRECEDENCE** : In the event of any ambiguity or conflict between the clauses / statements in Tender Documents, the order of precedence shall be in the order below.

- a. Amendments / clarifications / corrigenda / errata etc. issued.
 - b. Notice Inviting Tender (NIT)
 - c. Price Bid
 - d. Technical Specification
 - e. Special Conditions of Contract
 - f. General Conditions of Contract for works
 - g. Forms & Procedures
35. In the event of any conflict between requirements of a clause/s of this specification /documents/drawings/data sheets etc. and different standards / codes specified, the same is to be brought to the notice of BHEL before submission of offer, else BHEL's interpretation shall prevail.
36. Typographical error/missing pages/other errors in the tender documents noticed, must be brought to the knowledge of BHEL in writing before pre-bid meeting / submission of offer, else BHEL's interpretation shall prevail.

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

PROCEDURE FOR SUBMISSION OF SEALED TENDERS

- A. The bidders must submit their offer 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 following details.
- a. TENDER SPECIFICATION NUMBER
 - b. NAME OF WORK and
 - c. DUE DATE AND TIME FOR SUBMISSION
- B. **PART-I (TECHNICAL BID) COVER-I :**
- a. Excepting Rate Schedule, all other schedules, data sheets, Unpriced Copy of the Price-Bid showing the Rate of Service Tax applicable, formats, drawings and other details called for in the NIT / specification shall be enclosed in Part-I "Technical Bid".
 - b. Supporting documents / annexure etc. as required in line with Qualifying Requirement shall be enclosed. The documents shall be indexed properly.
- C. **PART-II (PRICE BID) COVER-II :**
- a. All indications of price shall be given in this PART-II "Price Bid" only. Discounts, if any shall be indicated only in the price bid.
 - b. These two Covers - I & II (PART-I AND PART-II) shall together be enclosed in a **third envelope (COVER-III) along with requisite EMD** as mentioned in the Notice Inviting Tender and this SEALED COVER shall be superscribed and submitted to THE DY. GENERAL MANAGER, ERECTION SERVICES, BHEL Ranipet. at the address given in "Special Instructions to Bidders " on or before the due date.

OFFER OF THE BIDDER
(FORMAT - To be typed written in LETTER HEAD and submitted along with offer)

To

The Deputy General Manager
 Erection Services Dept,
 Bharat Heavy Electricals Limited,
 Boiler Auxiliaries Plant,
 Indira Gandhi Industrial Complex,
 RANIPET –632 406. (TAMIL NADU).

Sir,

I/We hereby offer to carry out the work detailed in the Tender Specification No. BAP : ERN : Nalco : APH : Mech :C : 280 issued by M/s. Bharat Heavy Electricals Limited, Boiler Auxiliaries Plant, Ranipet in accordance with the terms and conditions thereof:

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 at NSPCL, Rourkela.

- | | |
|---|----------|
| a. Special Instructions to Bidders | Page: 03 |
| b. Tender Specification no. BAP:ERN:NALCO-ANGUL : APH : MECH :C : 280 | Page: 11 |
| c. Statutory requirement of Contract (ES: F:009) | Page: 18 |
| d. General conditions of Contract for works (ES: F:010) | Page: 35 |
| e. Special conditions of Contract for Mechanical works (BAP:MECH:SPN:MECH:APH:01) | Page: 53 |
| f. General terms and conditions of Reverse Auction. | Page: 65 |
| g. Other sections, appendices and schedules | |

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 a sum of **Rs. 1,35,000/-** (Rupees One Lakh Thirty Five Thousand only) 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.1,35,000/-** mentioned above, 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.

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.

	SIGNATURE OF TENDERER:	
Place:	ADDRESS:	
Date:		

WITNESSES WITH FULL ADDRESS

SI	SIGNATURE	NAME	ADDRESS
1			
2			
3			

PROJECT INFORMATION

1. Purchaser and Owner : M/s. NATIONAL ALUMINIUM COMPANY LIMITED (NALCO)
ANGUL., ODISHA
2. Location : **CPP – II,UNIT-1 (10 X 120 MW)**
NALCO-ANGUL, ODISHA.
3. Nearest Railway station : **ANGUL**
4. Air Quality : Normal Power Plant conditions

Before submitting his/her/their offer, the tenderer 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.

O-o-o-o-o-o-o-o-o-o

TENDER SPECIFICATION

TENDER SPECIFICATION NO:BAP:ERN: NALCO-ANGUL : APH : MECH :C : 280

- 01. SCOPE OF WORK :** The scope of work includes **Dismantling** of existing Air Pre Heater(APH) & ID Fan ducts, Handling at BHEL/Customer storage yard and shifting of new components / materials of APH to site of erection, Erection, testing and commissioning of **APH Unit- 1, CPP-II (10 X 120 MW), NALCO, ANGUL** using contractor's own tools and plants, cranes, material handling equipment, consumables, manpower etc. The detailed scope of work is further explained herein under and further enumerated in the **Annexure – III** attached with this tender specification. (Note-1: Existing Guide Brg with its, Trunnion Shaft & Support Bearing Assy with its Trunnion Shaft etc shall be retained)
- 1.1 Before dismantling, erection & commissioning following documents are to be submitted for approval.**
- (a) Dismantling & erection activity sequence chart (PERT / GANTT)**
- (b) Methodology of erection**
- 1.2 Grossly the scope of erection & commissioning includes but not limited to following jobs:-**
- 1.3 The dismantling, removal & Replacement of existing spares of 02 nos. of the Air Pre-Heaters of a unit along with associated spares, ducts, expansion bellows for complete renovation & modernization.**
- 1.4 Erection of the modified & New Assemblies & spares & refitting of existing, spares & accessories.**
- 1.5 Erection & Commissioning of the modified & New Assemblies of APH assemblies, spares, ducts, supports, and expansion bellows for complete R&M job including**
- 1.5.1 Erection of modified /height increased rotor & housing to accommodate additional 10 inch Heating element.**
- 1.5.2 Erection of modified rotor assy. for double sealing.**
- 1.5.3 Erection of Modified APH drive system with clutch assy. fluid coupling & bracket.**
- 1.5.4 Erection of new baskets.**
- 1.5.5 Removal existing Hot end centre section & erection of new ones**
- 1.6 Erection & Commissioning of Modified flue gas/ air path adjacent to APH inlet for near uniform flow distribution**
- 1.7 Erection & commissioning of all spares, consumables, accessories, assemblies, etc. as given in the scope of supply.**
- 1.8 Any other activity as deemed necessary for completion of R&M job to achieve the guaranteed parameters.**
- 1.9 Hiring of CRANES for major erection work, preferably with base ballast, is included in the contractors scope of work. The bidder has to visit site and ensure suitability of crane. The details of the crane shall be submitted along with the offer.**
- 1.10 In addition, any other mobile crane required to execute the work shall be mobilized in time to meet the schedules.**
- 1.11 Work includes handling of APH components at site stores / storage yards, transportation to site of erection, handling at site of erection, preassembly, water washing etc. complete and hook up of the entire system as per drawings of BHEL.**
- 1.12 Any dismantling and re-erection of existing material/s that is required to complete the specified work shall form part of the work and shall be carried out at no extra cost to BHEL.**
- 1.13 Removal and refitting / relaying of existing Air & Water lines, if any, which are required to enable dismantling & erection activities shall be in the scope of contractor.**
- 1.14 The distance of BHEL / Customer stores / storage yard within the plant to site of erection is in a radius of about 2.0 km.**
- 1.15 Area illumination for enabling the retrofitting work shall be in the scope of contractor.**

- 1.16** All the APH materials & components will be supplied by BHEL / Client on free issue basis and the contractor has to take receipt of them at the designated point, store them carefully, use them in the works as specified and required and finally account for them.
- 1.17** Fabrication and erection of temporary structures, platforms, supports etc. for dismantling and erection of APH components forms part of the work. The temporary structures etc. erected shall be removed after completion of work at no extra cost.
- 1.18** Adequate quantity of winches, steel ropes, pulleys etc shall be arranged by the contractor for safe dismantling and erection.
- 1.19** The scope of work also includes shifting and proper storage of dismantled materials at storage yard. The dismantled materials should be segregated and unusable materials should be devoluted to NALCO-ANGUL scrap yard.
- 1.20** 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.
- 1.21** 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.
- 1.22** 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 completion of work.
- 1.23** The scope includes laying of insulation over APH and Duct wherever required in single/double layer of wool mattresses with GI / Aluminium Cladding matching and properly joining with the existing undisturbed portions of insulation over APH & Duct as per specifications, drawings and instructions of BHEL.
- 1.24** The detailed scope includes the changes during actual execution of the work for fast progress / as per site conditions / convenience of the work
- 1.25** The tenderer shall visit the site of work before quoting for this work and take note of the possible interferences as well as for the movement of Cranes/Derricks. Such interferences of the existing structure piping & ducting etc.. if any have to be removed and re-erected to the extend required at no extra cost. This removal and re-erection of interferences shall be carried out in consultation and
- 2.0 ROUND THE CLOCK WORK :** Part of 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 contractor shall provide for suitable illumination, security, labour amenities, etc for such working. Necessary safety gadgets shall be provided and ensured for the manpower during late hours. The bidder shall consider all such contingencies in their offer.
- 3.0 SITE LOCATION :** Please see project information sheet.
- 4.0 TOOLS & TACKLES :** It may be noted that **BHEL will not provide** any cranes , trailors / trucks / tractors, tools and plants for execution of the work. All required resources including derricks, winches, wire ropes and tackles, etc are to be arranged by the contractor only. Higher capacity crane/s required for completion revamping work within the stipulated period shall be arranged by the contractor at no extra cost to BHEL. The quoted the rate shall consider all the eventualities that may arise during such works.
- 5.0 CONSTRUCTION POWER & WATER :** Required construction power and water to site shall be provided by BHEL on FREE OF CHARGE at one point only (within 500m). 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 bidder at his cost.
- 6.0 HEALTH, ENVIRONMENT AND SAFETY :** The contractor shall follow good safety practices at the site. All personnel shall be provided the required safety protective gear and contractor to ensure that they are used. Safety training to be provided to all personnel at the site. In addition, the prevailing rules and regulations pertaining to Health, Environment and Safety (HSE) procedures of M/s NALCO-ANGUL, project 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 shall be studied before submission of this budgetary offer. The bidder shall submit a write-up, along with the Technical-bid, on the HSE procedures to be adopted subject to modification and acceptance by BHEL, covering at minimum Personal Protective Equipment such as helmets, hard shoes, goggles, gloves, etc, safety training to staff and labour, daily safety pep talks & inspections, safety sign boards, housekeeping procedures, etc.
- 7.0 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.

7.1 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..

8.0 SITE MANAGEMENT :

- a. The contractor 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. The Contractor shall depute well experienced senior site manager who shall liaise with BHEL and clients, coordinate all resources and works and complete the job satisfactorily. The bidder shall submit in his Technical bid a resume of the proposed site manager. In addition, the Contractor shall mobilize adequate numbers of well experienced site technical supervisory staff as well as skilled and unskilled labour.
- b. **Erection Progress Reports shall be accompanied by Photographs (both hard & soft copies) as directed by BHEL Engineer at site.**

9.0 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.

10.0 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.

11.0 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 of PLUS or MINUS 15% of the scheduled quantities, as per site conditions.

12.0 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".

13.0 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).

14.0 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.

14.1 The bidder shall not include Service Tax in their quoted rates. **Service Tax** as applicable (at present 15%) to this contract will be reimbursed by BHEL. 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.

14.2 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.

14.3 Work Order for Man Power Supply shall be released separately to facilitate the application of Service Tax rules.

15.0 PAYMENT TERMS : All payments for the works completed shall be paid based on bills raised by the contractor as payment terms 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 only through e-payment** (through electronic fund transfer (EFT) / RTGS) only after deducting Bank charges as per BHEL terms of payment.

15.1 DETAILS OF PAYMENT TERMS : The payment terms are indicated in SECTION-III, IV and VI of the Special Conditions Contract (SCC) enclosed.

16.0 PERIOD OF CONTRACT / DURATION OF WORK : As per L2-Schedule, 30 Days/Unit towards pre-Shutdown activities PLUS 35 Days/Unit for completion of E&C activities. and post shutdown works 25 Days **The time period shall commence from date of Pre-shutdown activities indicated by BHEL-Engineer. The time period shall commence from date of starting of shut down works means first dismantling-for RS-NO wherever dismantling is involved).** The Time period for shutdown and erection activity are enumerated below and shall be strictly adhered to. Contractors have to bear the cost of waiting

in between the period of Completion of E&C of the first unit and the start of pre-shutdown activities for the second unit based on the site conditions.

16.1 Tentative Time period of work : Refer Annexure -II

16.2 The contractor shall mobilise the resources like manpower, cranes, consumables, tools and plants required to complete the entire work with in the above said schedule.

17.0 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. In case of cranes, the range diagrams and load charts should be included for the models to be used for the job.

18.0 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, outside the Plant premises, at no extra cost to BHEL.

19.0 LIQUIDATED DAMAGES : If the work completion gets delayed and the contract period gets extended due to reasons attributable to the bidder, liquidated damages as per provisions of contract (clause No.2.7.5 of General conditions of Contract for Works) shall apply. All decisions of BHEL in this regard will only be final and binding on the tenderer.

20.0 EXTRA CHARGES FOR MODIFICATION AND RECTIFICATION WORKS: Refer Section-VII of the special conditions of contract.

21.0 OVER-RUN COMPENSATION (ORC): Refer Section-VIII of the special conditions of contract.

22.0 The following documents enclosed shall also form part of the tender:

- | | |
|--|--------------|
| a. Technical bid acceptance Criteria – (Annexure-I) | Page: 15 |
| b. Tentative Schedule of activities – (Annexure –II) | Page: 16 |
| c. Statutory requirement of contract (ES:F:009) | Page: 18 |
| d. General conditions of Contract for work (ES:F:010) | Page: 35 |
| e. Special Conditions of Contract for APH works
(BAP:ERN:SPN:MECH:APH:01 – SECTION-III, IV & V) | Page: 53 |
| f. Special Conditions of Contract – (Section – VII and VIII) | Page: 63, 64 |
| g. General Terms and Conditions for REVERSE AUCTION (SECTION-IX) | Page: 65 |
| h. Appendix-I (page 69,70) and Appendix-II, III, IV (Page: 21 to 23) | |

ANNEXURE – I				
Technical bid acceptance Criteria (TAC)				
S. No	Evaluation Parameter	Document to be submitted	Max Score (MS)	Evaluated Score (ES)
1	General Technical Competence based on past experience More than 10 years experience in heavy erection jobs with welding gets 10 marks. Anything less gets marks proportionate to no. of years of experience	List of works & Completion certificate	10	
2	Ability to complete on Schedule based on past records Contractor to submit the actual time periods of completion for his past projects along with contractual schedules	Proof of contract dates	5	
3	Similar APH Retrofit Experience More than 3 similar APH retrofits gets 15 marks anything less gets proportionate marks	Completion letter/certificate	15	
4	Past Safety Records & Safety Plan Proposed Reasonable and complete Plan gets 10 marks. Else proportionate	Plan/Availability of safety officer	5	
5	Dismantling and Erection Methodology If 5 sections covering (a) correct choice of type of crane, (b) correct positioning of crane, (c) reasonable productivities & schedule, (d) feasible methodologies to be followed, (e) sketches-- are all there 20 marks; else proportionate marks	Verifiable sections in the bid	20	
6	Work Breakdown Structure and Time Schedule Reasonable and complete schedule gets 10 marks. Else proportionate marks	Macro Schedule	10	
7	Appropriate Equipment committed to be mobilised If cranes, derricks, welding machines, trailers, winches are covered with appropriate capacity and numbers including source for procurement 15 marks; else proportionate marks	Equipment list	15	
8	Company Organisation and Appropriate Project Staff Organisaion If appropriate no. of staff with 10 years similar erection experience are committed 10 marks; else proportionate	Staff list	5	
9	Appropriate Skilled Labour committed to be mobilized If appropriate no. of skilled labour with similar erection experience including welders are committed 5 marks; else proportionate	Letters/ Certificate	3	
10	Status reporting and Quality Control Appropriate Quality control procedures for different works and appropriate project reporting system	Quality document	2	
11	Bid Appreciation / Site visit If site problems are brought out and site visit has been made full marks; else proportionate	Proof of visit	5	
12	Completeness of bid submission If all stipulated documents are submitted full marks; else proportionate	Index and corresponding contents	5	
	Maximum Total Points (MS)		100	
	Acceptance of Technical bid - Minimum Score to pass Technical Evaluation		50	

ANNEXURE – II

TENDER SPECIFICATION No. : BAP : ERN : NALCO-ANGUL : APH : MECH : C : 280

TENTATIVE SCHEDULE OF ACTIVITIES FOR COMPLETION OF RETROFITTING WORK

S.No	Description of work	From	To	Time period
1	Pre shutdown Activity	30 days	15.06.2017	14.06.2017
2	APH Replacement including Dismantling, erection and commissioning Work (during Unit shutdown period of 35 days)	35 days	15.06.2017	19.07.2017
3	Post shutdown Activity	25 days	20.07.2017	15.08.2017

TENDER DOCUMENT (TENDER SPECN No : BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280

Unpriced-Bid to be submitted alongwith Part-I ie. Technical Bid
(The Rate of Service Tax alone is to be filled in this copy)

Name Of Work : (For Detailed Scope Of Work Please Refer The Tender Specification.)

Dismantling, erection, commissioning for Renovation & Modernization (R&M) job to achieve the guaranteed parameters in existing 02 nos. of Air Pre-Heaters (APH), Model 24.5 VIT, 1450 mm, 72Degree P.A. opening of regenerative vertical tri-sector rotary type with double sealing system and 4 layers of baskets (cold end, hot Intermediate, hot end bottom and hot end top) of total minimum height of 1700 mm along with all accessories, auxiliaries and associated Equipments, etc. for captive power plant (CPP) 120 MW of National Aluminium Company Ltd. (NALCO) at Angul, Odisha

SL. NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE/UNIT		TOTAL AMOUNT	
				RS.	PS.	RS.	PS.
A-01	Receipt of materials from BHEL/NALCO Stores, transporting to site of erection, dismantling of existing APH equipment to the extent required, transporting of scrap to NALCO scrap yard (with in the boundary), Erection, Testing, testing and Commissioning of new Air pre Heater of BHEL make 24.5 VIT, 1450 mm, 72 Degree P.A. opening of regenerative vertical tri-sector rotary type with double sealing system and 4 layers of baskets (cold end, hot Intermediate, hot end bottom and hot end top) as per Technical Specification, Drawings and as per instructions of BHEL Engineers, complete at NALCO CPP 1x120 MW, Unit-1 (as per enclosed annexures / specification) Note:- . Existing Guide Brg. Trunnion Shaft & Support Bearing assy. & its Trunnion Shaft, AC Motor, etc. shall be retained	Set	2	Quoted		Quoted	
TOTAL				Quoted		Quoted	
	% of Service Tax Payable extra If any to be indicated in this un-priced copy of the Price Bid						
TOTAL inclusive of Service Tax				Quoted		Quoted	



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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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

 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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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 (offer shall be kept valid for acceptance for a period of minimum 6 months)	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.

 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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OFFER OF THE BIDDER
(FORMAT - To be typed written in LETTER HEAD and submitted along with offer)

To

The Dy. General Manager
Erection Services Dept,
BHEL/BAP
RANIPET –632 406. (TAMIL NADU).

Sir,

I/We hereby offer to carry out the work detailed in the Tender Specification No. _____ issued by M/s. Bharat Heavy Electricals Limited, Boiler Auxiliaries Plant, Ranipet in accordance with the terms and conditions thereof:

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 at NSPCL, Rourkela

- General conditions of contract for work (ES: F:010)
- Statutory requirement of Contract (ES: F:009)
- Special conditions of Contract for Erection works (BAP:ERN:SPN:MECH:APH:01.)
- Tender Specification no. (BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280)
- Special Instructions to Bidder
- General terms and conditions of Reverse Auction.
- Other sections, appendices, annexure and schedules.

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 a sum of **Rs. 1,35,000.00 (Rupees. One Lakh Thirty Five Thousand Only)**

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.

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.

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) : AACB/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 :			

 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 - 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.

 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 – 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

 Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT Ranipet	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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. : BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280).</p> <p>Date :</p> <p style="text-align: right;">SIGNATURE OF THE BIDDER</p>	

 Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT Ranipet	STATUTORY REQUIREMENT OF CONTRACT ES : F : 009
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 BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280 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> <p>BIDDER'S NAME AND ADDRESS:</p>	
AUTHORISED REPRESENTATIVE'S SIGNATURE WITH NAME AND ADDRESS	

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

FINANCIAL VIABILITY (Annexure-A)

Sl	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

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


ORGANISATION STRUCTURE (Contd..)


Annexure-C


2a	Details of Technical staff:	Indicate Experience in types of works as well as No. of Years in each			
Sl	Category	Total Number on Rolls	Experience In Years	Numbers Proposed to be deployed at the Site for this job	Remarks if any
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				

Date :

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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FACILITIES FOR STAFF & WORKERS AT SITE					
2a	1. ACCOMMODATION: a) For Engineer / Supervisor / other staff				
Sl	Category	Type of accommodation	Facilities provided	Remarks	
b) No. of quarters, plinth area of each quarter and estimated cost proposed to be constructed for workmen.					
1	MEDICAL:				
2	CONVEYANCE:				
3	OTHER AMENITIES:				
Date : <div style="text-align: right; margin-top: 20px;"> SIGNATURE OF THE BIDDER </div>					

 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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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 APH 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 Cranes <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)			
SI-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	


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A – 1
STATUS OF TOOLS & PLANTS

List of equipments / Machinery / T&P owned by the contractor and proposed to be deployed by the contractor for this work.

NOTE: Bidders are required to furnish the details as desired below with regard to the equipments machinery, tools & plants, consumables and workshop facilities owned by them along with documentary proof for the same

Sl-No	Name of the equipment-	Qty Required	Total Qty Available	Qty proposed to be deployed	Type, capacity, Specification	Date of Purchase	Registration Number	Present Location	Utility factor of the Machine
1	Telescopic Crane of suitable capacity	1 No.							
2	Mobile crane (Minimum 12 MT capacity)	2 Nos.							
3	Power winches of required capacities 3MT / 5MT	06 Nos.+ 02 Nos							
4	Lorry / Tractor / Trailors 10 MT Cap	2 Nos.							
5	Welding Generator / Rectifier	12 Nos.							
6	Portable Grinding Machines of Assorted Sizes/ Types	10 Nos.							
7	Portable Electrode Drying oven	06 Nos..							
8	Welding Cable	300 Mtr							
9	Gas Cutting Set	12 Sets							
10	Chain Pulley Blocks 3MT/5MT cap	25 Nos./10 Nos.							
11	Lifting Tackles of assorted sizes	As per requirement							

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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 Accidents Fatal/Minor Number of Strikes/ Work Stoppages with duration and Mandays Lost	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

 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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B – II Previous Experience (FOR APH PROJECTS ONLY)								
SI-No	Name of the Project with unit capacity	Date of Letter of Intent	Date of Start of Erection	Major activity Completed				Testing & Commissioning
				Stage-I	Stage-II	Stage-III	Stage-IV	
Use Annexures-If required								
Signature of the Bidder								



Ranipet

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FOR

WORKS

(SECTION – I & II)

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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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SECTION –I

1. GENERAL INSTRUCTIONS TO BIDDERS

1.1. DESPATCH INSTRUCTIONS:

- 1.1.1. This tender specification as a whole, duly furnishing all the details required and other documents as required in the following pages, shall be duly signed and sent in a sealed cover duly super scribing the name of work as given in the tender notice.
- 1.1.2. The tender shall be addressed to Officer inviting tender as indicated in the tender notice.
- 1.1.3. Tenders submitted by post shall be sent by “REGISTERED POST WITH ACKNOWLEDGEMENT DUE” and shall be posted with the due allowance for any postal delay. The tenders received after the due date and time of opening are liable to be rejected. Telegraphic offers and offers received by telex may not be considered.
- 1.1.4. Tenders shall be opened by authorized officer of BHEL at his office at the time and date as specified in the tender notice in the presence of such of those bidders or their authorized representatives who may be present.
- 1.1.5. The Tenders shall closely pursue all the clauses, specifications and drawings indicated in the tender documents before quoting. Should the bidder have any doubt 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.
- 1.1.6. Before tendering, the bidders are advised to inspect the site of work and the environments and be well acquainted with the actual working and other prevalent conditions, facilities available, position of material and labour. No claim will be entertained later, on the ground of lack of knowledge.
- 1.1.7. Bidder must fill up all the schedules and furnish all the required information as per the instructions given in various sections of the tender specification. Each and every page of the Tender Specification must be signed and submitted along with the offers by the bidder in token of complete acceptance thereof. The information furnished shall be complete by itself.
- 1.1.8. The bidders shall quote the rates in English language and international numerals. These rates shall be entered in figures as well as in words.
- 1.1.9. **Discrepancy in Quoted Rates :**
- 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.
- 1.1.10. For the purpose of the tender, the metric system of units shall be used.
- 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.

- 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.

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SECTION –I

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.

1.3.1. FINANCIAL STATUS:

A certificate from Scheduled Bank to prove his financial capacity to undertake the work duly indicating financial limits the bidder enjoys or solvency certificate from the concerned Government authority. Informations required in Annexure A₇ shall be furnished by the bidder along with the offer.

1.3.2. INCOME TAX CERTIFICATE:

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

1.3.3. PREVIOUS EXPERIENCE:

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

1.3.4. ORGANISATION CHART: The Organisation pattern that is presently available with the bidder and that will be employed by the bidder for this work shall be furnished.

1.3.5. An attested copy of the Power of Attorney, in case the tender is signed by an individual other than the sole proprietor, shall also be attached. (If it is a Company or Firm, etc., Director/Managing Partner as the case may be is required to sign)

1.3.6. IN CASE OF AN INDIVIDUAL: His full name, address and place and nature of business shall be indicated.

1.3.7. IN CASE OF PARTNERSHIP FIRMS: The names of all the partners and their addresses be furnished along with a copy of the partnership deed/instrument of partnership duly certified by Notary Public shall be enclosed.

1.3.8. IN CASE OF COMPANIES:

Date and place of registration including date of commencement certificate in case of public companies (certified copies of Memorandum and Articles of Association are also to be furnished) are to be furnished.

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

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


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

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

EARNEST MONEY DEPOSIT:


1.4.1. Every tender must be accompanied by the prescribed amount of Earnest Money Deposit in any one of the following forms.

1.4.1.1. EMD shall be deposited in cash (as permissible under income tax act), Payorder or Demand Draft (payable at Ranipet in favour of “Bharat Heavy Electricals Ltd.,”) only. No other form of EMD remittance shall be acceptable to BHEL.

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- 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.
- 1.4.2.** Tenders received without Earnest Money in full in the manner prescribed above are liable to be rejected.
- 1.4.3.** The Earnest Money Deposit of the successful tenders may be retained towards part of Security Deposit.
- 1.4.4.** In the case of unsuccessful bidders, the Earnest Money will be refunded to them within a reasonable time after finalisation of the tender.
- 1.4.5.** Earnest Money Deposit by the bidder will be forfeited as per tender documents if the bidder:
- 1.4.5.1.** Fails to communicate unqualified acceptance of Letter of Intent within 15 days of date of Letter of Intent.
- 1.4.5.2.** Does not commence the work within the period as per LOI/Contract. In case the LOI/Contract is silent in this regard then within fifteen days after award of contract.
- 1.4.5.3.** After opening of Tender, revokes/withdraws his tender within the validity period or revises/alters his earlier quoted rates/conditions.
- 1.4.5.4.** Fails to submit SD as indicated in the Letter of Intent.
- 1.4.6.** Earnest Money deposit shall not carry any interest.
- 1.5. AUTHORISATION AND ATTESTATION:**
- 1.5.1.** Tenders shall be signed by persons duly authorized /empowered to do so. Certified copies of such authority and relevant documents shall be submitted along with the tenders.
- 1.6. VALIDITY OF OFFER:** The rates in the Tender shall be kept open for acceptance for a minimum period of six months from the date of opening of tenders. In case the Bharat Heavy Electricals Limited calls for negotiations such negotiations shall not amount to cancellation or withdrawal of the original offer , which shall be binding on the bidders.
- 1.7. EXECUTION OF CONTRACT:** The successful 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.
- 1.8. SECURITY DEPOSIT:**
- 1.8.1.** Upon acceptance of tender, the successful bidder within the time specified in the letter of intent must deposit the required amount of Security Deposit for satisfactory execution of work and shall not commence work under this contract before remitting security deposit except as directed by BHEL.
- 1.8.2.** The total amount of Security Deposit will be 5% of the contract value. EMD of the successful tenderer shall be converted and adjusted towards the required amount of Security Deposit.
- 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:
- Cash (as permissible under the extant Income Tax Act)
 - Local cheques of Scheduled Banks (subject to realization)/ Pay Order/ Demand Draft/ Electronic Fund Transfer in favour of BHEL
 - Bank Guarantee from Scheduled Banks/ Public Financial Institutions as defined in the Companies Act. The Bank Guarantee format should have the approval of BHEL
 - 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)
 - 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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(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)


- 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.
- 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.
- 1.8.5** Failure to deposit the Security Deposit within the stipulated time, may lead to forfeiture of Earnest Money and cancellation of the award of work.
- 1.8.6** If any part of Security Deposit of the Contractor is held in the form of approved securities it shall be kept transferred in the name of Bharat Heavy Electricals Limited, Ranipet, in such a manner that the same can be realized fully without referring to the Contractor, BHEL shall not be responsible for any depreciation in the value of the Security while in BHEL's custody or for any loss of interest thereon.
- 1.8.7** BHEL reserves the right to forfeiture of Security Deposit in addition to the other claims and penalties in the event of the Contractor's failure to fulfill any of the Contractual obligation including liquidation or bankruptcy of the contractor, non-payment of money payable by means of arbitration award in favour of BHEL or in the event of termination of Contract as per terms and conditions of Contract. BHEL reserves the right to set off the Security Deposit, against any claims of any other contracts with BHEL.
- 1.8.8 RETURN OF SECURITY DEPOSIT:**
- If the Contractor performs and completes the work in all respects to the entire satisfaction of BHEL and presents an absolute "No Demand Certificate" in the prescribed form (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.**
- 1.9. REJECTION OF TENDER AND OTHER CONDITIONS**
- 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.
- 1.9.1.1.** To reject any or all of the bidders.
- 1.9.1.2.** To split up the work amongst two or more Bidders.
- 1.9.1.3.** To award the work in part.
- 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.


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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 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 calendar 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 week 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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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.

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.

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.

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.

2.8. RESPONSIBILITIES OF THE CONTRACTOR IN RESPECT OF LOCAL LAWS, EMPLOYMENT OF WORKERS Etc.

The following are the responsibilities of the Contractor in respect of observation of local laws, employment of personnel, payment of taxes etc.

2.8.1. As far as possible unskilled workers shall be engaged from the local areas in which the work is being executed.

2.8.2. The contractor at all times during the continuance of this contract shall, in all his dealings with local labour for the time being employed on or in connection with the work, have due regard to all local festivals, religious and other customs.

2.8.3. The contractor shall comply with all state and 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.


2.8.4. The contractor shall pay all taxes, including sales Tax on works contract if any fees, license, charges, deposits duties, tool royalty commissions or other charges which may be leviable on account of any of his operations in execution of the contract in case BHEL is forced to pay any of such taxes. BHEL shall have the right to recover the same from the contractor either from his bills or other wise as deemed fit.


2.8.5. While BHEL would pay the inspection fees, of the Boiler Inspectorate, all other arrangements for the visits periodically by Boiler Inspector to site, Inspection Certificate etc., will have to be made by the contractor. However BHEL will not make any payment to Boiler Inspector in connection with contractor's welders qualification/requalification tests etc.


2.8.6. The contractor shall be responsible for provision of health and sanitary arrangements (more particularly described in Contract Labour Regulation & Abolition Act) safety precautions etc., as may be required for safe and satisfactory execution of the contract.

2.8.7. The contractor shall be responsible for providing proper accommodation including adequate medical facilities for the personnel employed by him.

2.8.8. The contractor shall be responsible for the proper behavior and observance of all regulations by the staff employed by him.

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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: 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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<p>2.13. GUARANTEE:</p> <p>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.</p> <p>2.14. ARBITRATION:</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The arbitrator shall give a separate award in respect of each dispute or difference referred to him.</p> <p>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.</p> <p>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.</p> <p style="text-align: center;">*+*</p>		



Ranipet

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Name of work :

Name of the contractor with full address :

Amount of tender accepted :

Letter of Intent No. :

Time allotted for completing the work :
(date of completion)

(Officer authorized to sign the agreement)

CONTRACTOR

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ANNEXURE –‘D’ CONTRACT AGREEMENT

AGREEMENT No: BAP: ERN : BHE :

DATE:

1. This agreement made this day, the _____ of _____ between the Bharat Heavy Electricals Limited, Ranipet having its Registered Office at 'BHEL House', Siri Fort, New Delhi 110 049 (herein after called the FIRST PARTY) of one part and Messrs. (herein after called the ("CONTRACTOR") of the SECOND PARTY.
2. WHEREAS the first party is desirous of executing the work of _____, more particularly described in the appendices including drawings and specifications attached herewith.
3. WHEREAS IN PURSUANCE of the said Contractor's Tender having been accepted, the first party has decided to give the above said work to Contractor, and WHEREAS the contract between the parties was concluded by virtue of a letter of intent issued by the First Party under reference, _____ Dt. _____.
4. WHEREAS the said Contractor has agreed to do the aforesaid work of the first party subject to the conditions herein contained in the presents, instructions to bidders, general conditions and special conditions, schedules, appendices, letter of intent and specifications (hereinafter referred as the said contract schedule) at the approved rates (herein referred as the said contract rate).
5. AND WHEREAS the said contractor has furnished a Bank Guarantee for a sum of Rs. _____ Valid up to _____, towards initial 50% security Deposit and has further agreed for balance 50% Security Deposit being recovered at 10% of value of each running bill till the full Security Deposit is made up for the satisfactory completion and performance of the work and whereas the validity of the said Bank Guarantee has to be extended by the Contractor, if so required before for the balance period of contract period and in the event of his failure to do so, the contractor shall pay or accept recovery of this amount of Rs. _____ (Rupees _____, only), from the bills forthwith in one installment and it has further been agreed that the failure to extend the validity of Bank Guarantee or failure to pay the aforesaid amount the manner specified above shall constitute the breach of contract, and first party reserved the right to take easy legal action deemed fit for recovering the said sum of Rs. _____ (Rupees _____ only). This amount of Rs. _____ Will be refunded (and Bank Guarantee will be returned) to the Contractor on satisfactory completion of the work as specified in the Contract documents.
6. Now THESE PRESENTS WITNESS that in consideration of the said contract schedule and said contract rate as also of agreement of good and faithful services to be rendered and performed by the contractor in the execution of the said work, subject to the stipulation hereinafter expressed.
7. That the said contractor will perform the aforesaid work subject to the conditions contained in these presents, instructions to bidder, general and special conditions of contract and the contract documents attached herewith including the said schedules, specifications, appendices, letter of intent, drawings attached and also such other drawings and instructions as may from time to time be given by the first party. And that the said contractor shall be deemed to have carefully examined the specifications and conditions of contract, appendices, schedules, letter of intent, drawings etc., as aforesaid and also to have satisfied himself as to the nature and character of work to be executed.
8. That the said contractor shall carry out and complete the execution of the said work to the entire satisfaction of the Engineer within the agreed time schedule.
9. That the first party after proper scrutiny of the bills submitted by the said contractor will pay to him during progress of the said work, at said contract rates and agreed terms of payment, a sum as determined by the first party in respect of the work executed by the contractor.
10. That the contract shall come into force with retrospective effect from the date on which the letter accepting the tender (Letter of Intent) has been issued to the said contractor.
11. That whatever under this contract or otherwise, any sum of money shall be recoverable from or payable by the Contractor, the same may be deducted in the manner as set out in the conditions of contract as aforesaid.
12. That all charges on account of Octroi, terminal and sales-tax or other duties on materials obtained for the work shall be borne by the said contractor.
13. That is agreed between the parties that the non-exercise of any of the powers conferred on the authorities of the first party will not in any manner constitute waiver of the conditions thereto contained in these presents and the liability of the said contractor either of past or further compensation shall remain unaffected.
14. That the expression BHEL wherever occurring means THE BHARAT HEAVY ELECTRICALS LIMITED, RANIPET.
15. The contract is subject to RANIPET(TamilNadu) jurisdiction.
16. The document hereto attached viz. shall also form part of this agreement.
17. General Conditions of Contract attached to the Notice inviting tender shall form part of this contract in so far as any thing is not provided specifically in this agreement.
18. In witness hereof the parties have respectively set their signatures in the presence of :

WITNESSES:

(with full address)

1.

2.

Date:

Signature of the Contractor (to be signed by a Person holding valid power of Attorney of the Company)

WITNESSES:


(with full address)


1.

2.

Date:

For and on behalf Bharat Heavy Electricals Limited.

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ANNEXURE 'E' PROFORMA FOR SECURITY DEPOSIT		
<p>THIS DEED OF GUARANTEE made this day of _____ by Messrs. _____ (hereinafter called the Bank) in favour of Messrs. BHARAT HEAVY ELECTRICALS LIMITED, RANIPET 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>(Name of the Bank & Place)</p>	
<p>Seal:</p>	<p>DESIGNATION OF THE AUTHORISED PERSON SIGNING THE GUARANTEE</p>	

 BHEL Ranipet	Bharat Heavy Electricals Limited Boiler Auxiliaries Plant, Ranipet –632 406 ERECTION SERVICES DEPARTMENT	GENERAL CONDITIONS OF CONTRACT ES : F : 010
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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>		
I/We, therefore request you to refund to me/us the security deposit of		
Rs. _____ .		
(Rupees _____ only)		
and the Bank guarantee No.: _____ dt. _____.		
Rs. _____ .		
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.		
SIGNATURE OF THE CONTRACTOR WITH SEAL		
Place:		
Date:		
Witness	1)	
	2)	
	3)	

SPECIAL CONDITIONS OF CONTRACT

FOR

MECHANICAL WORKS

BAP:ERN :SPN :MECH: APH:01



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

SECTION-III

SPECIAL CONDITIONS OF THE CONTRACT FOR ERECTION & COMMISSIONING WORKS

- 3.1 RESPONSIBILITIES OF THE CONTRACTOR & SCOPE OF WORK**
Dismantling, erection, commissioning for Renovation & Modernization (R&M) job to achieve the guaranteed parameters in existing 02 nos. of Air Pre-Heaters (APH), Model 24.5 VIT, 1450 mm, 72Degree P.A. opening of regenerative vertical tri-sector rotary type with double sealing system and 4 layers of baskets (cold end, hot Intermediate, hot end bottom and hot end top) of total minimum height of 1700 mm along with all accessories, auxiliaries and associated Equipments, etc. for captive power plant (CPP) 120 MW of National Aluminium Company Ltd. (NALCO) at Angul, Odisha. The entire work must be carried out at no extra cost but within the rates quoted in the rate schedule
- 3.1.1** The scope also includes laying insulation over APH & Duct wherever required in single / Double layers of wool mattress with GI / aluminium cladding matching and properly joining with the existing and undisturbed portion of insulation over APH & Duct as per specn., drgs & Instructions of BHEL.
- 3.1.2** The Detailed scope given in Annexure-I may also be referred which may have some changes during actual execution of the work for faster progress / As per site condition / convenience of work.
- 3.1.3** The tender shall be visit the site of work before quoting for this work and take note of the possible interference as well as for the movement of the Cranes / Derricks. Such interference of the existing structures piping, Ducting Etc.. if any, have to be removed and re-erected to the extent required at no extra cost. This removal and re-erection of the interference shall be carried out in consultation and prior approval of customer / BHEL authorities doing execution of work.
- 3.1.4** The work may to be carried out with very much restraint of space for movement of cranes / Derrick due to adjacent structures. The tenderer shall plan in such a way to place the Derrick of suitable height / crane of suitable capacity and boom length. Physical inspection of the site and acquaintance with site condition with ref. to all the interference problem and feasibility of the works is essential. No revision of rate shall be allowed at a later stage for not having adequate knowledge about the site condition.
- 3.1.5** Insulation Works: APH & Duct by welding of Stud/hooks with retainers, laying of Mineral Wool/LRB over the retainers, Sewing of Mattress, Fixing of TOP Retainers and Binding Wire over the wool, Fixing of GI/Aluminium Sheets over the Wool Mattress (Single/Double Layers). Using self tapping screws as per drg.
- 3.1.6** And application of Bituminous sealing compound for the vertical joints of the sheets. Attachment welder approved by BHEL/Customer, using NG Set and 2.5mm Dia Electrode, shall weld insulation hooks. While fixing the insulation, there shall not be any gap between two mattresses.
- 3.1.7** Separating line of two subsequent layer of insulation shall be staggered. Cutting shall not increase size of the holes of retainer plates. Adjacent pads of insulation shall be woven by binding wire. Cladding sheet shall be inserted in the slot of the holding channels provided at top & bottom. Sheets shall be secured with adequate number of screws. Any sheets//plates dismantled for renewing or fixing of insulation shall be re-fixed in proper way. Aluminium/GI Sheets shall be end grooved and Greased to obtain proper shape and strength, as per drg of BHEL. The tenderer shall arrange to supply and application of two coats of Anti-corrosive paints on the inner-face of the cladding sheets before erection and required scaffolding to undertake the work at no extra cost.
- 3.1.8** All the tools which may be required during the execution of the job which are not explicitly mentioned in the tender are also to be arranged by the contactor.
- 3.2 PAYMENT TERMS:**
- 3.2.1 PAYMENTS FOR WORK COMPLETED:**
- a) The Tenderer shall quote separate rates per metric tonne for each of the categories of work in the rate schedule appended. No eraser should be used and no overwriting is acceptable.
 - b) The Contractor shall submit his running bills for erection work. The Contractor shall submit his running bills once in a month before end of each month.
 - c) 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.

3.2.2 PAYMENT:

Payment terms for Item no. A01, of the rate schedule shall be as below.

85% of the rate quoted shall be paid after completion of erection, alignment and welding of the new components supplied for the APH. and handing over of the dismantled materials to BHELs' Client.

10% of the rate quoted will be released after commissioning of the APH.

Balance 5% shall be paid only after 6 months from the date of commissioning of the APH.

3.3 RATE SCHEDULE

- 3.3.1** The tenderer shall quote the Rate as per the 'RATE SCHEDULE' vide part II 'PRICE BID' Annexed. Conditional offers are liable to be rejected. The scope of work and the responsibility of the Contractor as mentioned under all the clauses etc., of the tender specification shall be covered within the quoted rates.
- 3.3.2** 'The rates quoted' in the tender are to be kept firm for entire period/extended period of the contract (if any) from the date of Letter of indent issued by BHEL, No escalation, on any account whatsoever will be accepted by BHEL.
- 3.3.3** The total weight mentioned in the rate schedule is APPROXIMATE and is liable to vary later at the discretion of BHEL. No variation in quoted/accepted rates per Metric Tonne shall be allowed due to increase/decrease in total tonnage mentioned.
- 3.3.4** The work executed will be priced at the unit rate quoted by the contractor and accepted by BHEL for the purpose of the payment. For the purpose of payment the gross weight indicated in RR/LWB/PWB/BL will be taken into account for calculating the tonnage handled.
- 3.3.5** The distance if any indicated in the rate schedule are only approximate. However the tenderer should assess the various distances and site conditions by visiting the site before submitting their offer.
- 3.3.6** The tenderer is also required to quote for all the "PROVISIONAL ITEMS" if any of the rate schedule as the same may be operated according to the site conditions and entirely at the discretion of BHEL during the execution of the contract.
- 3.3.7** The tenderer is expected to fill up the 'RATE SCHEDULE' after satisfying all the terms and conditions stipulated in the TENDER SPECIFICATION.
- 3.3.8** The scope of work under this contract is deemed to be completed only when so certified by the Site Engineer of BHEL.
- 3.3.9** During the entire period of contract, the Contractor shall maintain proper progress, adequate manpower, requisite handling and transportation equipments, tools and tackles and other consumables, to meet the scheduled programme as per the priority given by BHEL Site Engineer.

SECTION-IV

4.1 SPECIAL REQUIREMENTS

- 4.1.1 The entire work of erection testing and commissioning shall be completed within the time specified in the time schedule.
- 4.1.2 The contractor has to indicate their ability in completing the contract in all respects shorter than the period mentioned in the time schedule.
- 4.1.3 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.
- 4.1.4 The contractor should be able to mobilize all the tools, plants and consumables necessary for three shifts operation to meet the requirements.

4.2 IMPORTANT GENERAL & SPECIAL CONDITIONS OF CONTRACT :

4.2.1 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.

4.2.2 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.

4.3 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 intent 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.
- 5.1.9 **Comprehensive Reporting on the progress of the Work on daily basis, attending review meetings with BHEL to monitor and speed up the work and taking steps as directed to speed up the work/ improve the Quality and Safety of the Work.**

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 tenements, 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 / Acetylene / 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 confirm 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 Deleted

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 APH 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 equipments 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 equipments 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, equipments 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 good shall have to be made good by the contractor at his own cost.
- 5.9 Preservation of Components**
- 5.9.1** In order to maintain the surfaces of various components from rusting etc., frequent painting/re-painting of material at storage yard has to be carried out. While BHEL will arrange for supply of paint/thinner etc., it shall be responsibility of Tenderer/Contractor to provide sufficient number of unskilled category of labour for carrying out the preservative painting. The number of labour to be supplied will depend on the quantum of work awarded.
- 5.9.2** The above-referred labour will be given by the Contractor right through the contract period without fail and any failure on their part will entail in reduction of the value of their running bills.
- 5.9.3** It shall be the responsibility of the Contractor to apply preservative painting on equipments erected by him till such time of final painting. All paints and thinner will be supplied by CONTRACTOR and it shall be Contractor's responsibility to arrange for required labour, scaffolding materials, providing of scaffoldings, supply of cleaning materials like wire brush, emery sheets, etc., cleaning of surface and provide one coat of preservative painting from time to time as decided by BHEL Engineer. The quoted rate shall include this work also. It is to be noted that such painting may have to be done twice a year till such time the final painting is carried out.
- 5.9.4** 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.

- 5.9.5** 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 for with 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 equipments 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 equipments 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 overheads. In case the Contractor fails to provide necessary safety equipments 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 equipments 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 equipments 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 equipments, taking due precaution to avoid any accidents and damages to other equipments 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.
- 5.12 PRICE ESCALATION:**
- 5.12.1** 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.
- 5.12.2** 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.
- 5.12.3** 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 work on man hour basis for such of those works which require major modification which is totally unusual to the APH Erection & commissioning work which are not due to contractors 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 labor sheets should to be maintained and should be signed by the contractor representative and BHEL Engineer. Signing of labour sheets does not mean the acceptance of extra works. Only those works which are identified as not usual to normal erection & Commissioning and certified so by the site in-charge of BHEL and accepted by designers, / suppliers, competent authorities only will be considered for payment.
- 7.4 Average single manhour rate including overtime if any, supervision, use of tools and tackles and other site expenses and incidentals, **including consumables, if any required**, for carrying out any rework / rectification that may arise during the course of revamping shall be **Rs. 60/- per man hour**.
- 7.5 The decision of BHEL in this regard shall be final and binding of the contractor.

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. (Not normal to the APH E&C) 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. However, prior to carry out to repair/rework, administrative approval with the estimate to be obtained by site. Any work costing less than 48 man Hours of works of DU shall not be considered for payment. 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 OVER-RUN COMPENSATION (ORC) :**

- 8.1 In case due to reasons not attributable to the contractor, the work gets delayed and the completion gets extended beyond the contract completion date by more than the grace period of 3 months, the contractor shall be paid Over Run Compensation for every month of extended period so determined by BHEL beyond the contract completion date (and the grace period) indicated in this specification.
- 8.2 ORC will be paid only at the end of the contract period, including extension/s of period if any, after ascertaining the actual period of eligibility of delay as aforesaid. For this purpose, the contractor shall submit details of factors with time estimates which accounted for the delay in work completion.
- 8.3 All decisions of BHEL in this regard shall be final and binding on the contractor. The period to be considered for ORC shall not include loss of time due to Force-majeure conditions explained in this tender.
- 8.4 The ORC shall be paid by BHEL only after completion of all works within the scope of the works awarded to the tenderer. Hence, it is obligatory on the part of the tenderer to complete the works during extended period also.
- 8.5 This supplements the clause 5.12 of Special conditions of Contract for Mechanical works -V enclosed along with this tender specification.
- 8.6 The rate of ORC payable per month and the total eligibility period will be determined by BHEL.  
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SPECIAL CONDITIONS OF CONTRACT SECTION – IX

9.0 GENERAL TERMS AND CONDITIONS OF REVERSE AUCTION

- 9.1 For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
 - 9.2 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.
 - 9.3 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.
 - 9.4 Business rules like event date, time, start price, bid decrement, extensions, etc. also will be communicated through service provider for compliance.
 - 9.5 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.
 - 9.6 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.
 - 9.7 Reverse auction will be conducted on scheduled date & time.
 - 9.8 At the end of reverse auction event, the lowest bidder value will be known on the network.
 - 9.9 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.
 - 9.10 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.**
 - 9.11 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.
 - 9.12 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.
 - 9.13 Any variation between the on-line bid value and signed document will be considered as sabotaging the tender process and will invite disqualification of vendor to conduct business with BHEL as per prevailing procedure.
 - 9.14 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.
 - 9.15 Only those vendors, who participate in the Online Initial Opening Bid, will be eligible to participate in the subsequent Online English Reverse Auction.
 - 9.16 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.
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APPENDIX - I

Page 1 of 1

LIST OF MAJOR TOOLS & TACKLES TO BE ARRANGED / DEPLOYED BY CONTRACTOR BEFORE COMMENCEMENT OF WORK.

This is only an indicative list of minimum quantities to be deployed at site. All the tools & tackles, equipment etc. that are required for completion of the work within the scheduled time period shall be arranged by the contractor. All safety equipment required for this work shall be arranged by the contractor. All safety regulations of BHEL/their client M/s.NALCO must be followed by the contractor during the erection work.

Sl	Description	Minimum Quantity to be deployed at site
1	Telescopic Crane of suitable capacity	1 No.
2	Mobile crane (Minimum 12 MT capacity)	2 Nos.
3	Power winches of required capacities 3MT / 5MT	06 Nos.+ 02 Nos
4	Lorry / Tractor / Trailors 10 MT Cap	2 Nos.
5	Welding Generator / Rectifier	12 Nos.
6	Portable Grinding Machines of Assorted Sizes/ Types	10 Nos.
7	Portable Electrode Drying oven	06 Nos..
8	Welding Cable	300 Mtr
9	Gas Cutting Set	12 Sets
10	Chain Pulley Blocks 3MT/5MT cap	25 Nos./10 Nos.
11	Lifting Tackles of assorted sizes	As per requirement
12	Pulling Machines / Hook Chooks	6 Nos.
13	24 volt Transformer	02 Nos.
14	24V Lamps with cable and plug tops	10 Nos.
15	Power distribution Board	02 sets.
16	Switch board with extension wire	06 Nos.
17	Flood light fittings.	12 Nos.
18	Torque Wrench with Torque Multifier	01 No. each (35 Kg.M / 65 Kg.M)
19	Slogging Spanners 52 mm & 54 mm	4 Nos. each
20	Digital distance measuring instrument (Laser based)	01 No.
21	Digital level measuring instrument 0.02 mm LC	01 No.
22	Vernier Calipers 0-150 M 0-300 M 0-600 M	2 Nos. 2 Nos. 1 Nos.
23	Inside Micrometer up to 600 mm	1 No.
24	Outside Micrometer upto 600 mm range	1 No.
25	Measuring Tape up to 15 M length	4 Nos.
26	Dial Guages	3 Nos.
27	Grinding Machine AG-7 & GQ 4	8 Nos. / 4 Nos.
28	Diesel Grinders	2 Nos.
29	Tap set M 30 x 3,	1Set
30	Filler Guage (Loose) 200 mm Long	4 Nos.

APPENDIX - II

Page 1 of 1

CONSUMABLES TO BE ARRANGED / DEPLOYED BY CONTRACTOR FOR EXECUTION OF WORK

Consumables to be arranged by the contractor

(This is inly indicative and not exhaustive))

01. Kerosene / Diesel
02. Rustolene
03. CTC
04. Waste Cloth / Cotton
05. Marking Cloth
06. Cut-off wheels / Grinding Wheels
07. Mounted Wheels / Rotor Cutters
08. Insulation Tapes
09. Sander Disc and wheels
10. Polythene sheets
11. Electric fuse wise cables
12. Cutting Electrode
13. Welding Electrodes E-6013/E7018/E-8018
14. DA and Oxygen Gases
15. Paints for preservative painting

APPENDIX - Iii

Page 1 of 1

QUALITY REQUIREMENT

- 1.0 Various inspection / control / quality assurance procedure / methods at various stages will be as per BHEL / customer quality control procedure / FQP / ERECTION MANUAL / codes and other statutory provisions and as per BHEL Engineer's instructions.
- 2.0 Preparation of quality assurance log sheets and protocols with customer's engineers. Welding logs, other quality control and quality assurance documentation as per BHEL Engineer's instructions, is within the scope of work / specification.
- 3.0 A daily log book should be maintained by Area In-Charge of contractor on the job incorporating erection / alignment / Welding clearance / NDT testing / progress of work etc., and the same shall be submitted to BHEL.
- 4.0 All the important measurements like pre-assembly checking of alignment leveling / centering work etc., shall be recorded in the daily log book with sketches based on BHEL drawings readings / measurements actually taken and signed by BHEL / Customer / Contractor representatives.
- 5.0 The inspection / measuring and testing equipments should be of brand, quality and accuracy, as specified by BHEL engineer and should have valid calibration certificates traceable to national / international standards.

TENDER DOCUMENT (TENDER SPECN No : BAP : ERN : NALCO-ANGUL : APH : MECH :C : 280

price-Bid- Part-II**Name Of Work : (For Detailed Scope Of Work Please Refer The Tender Specification.)**

	Dismantling, erection, commissioning for Renovation & Modernization (R&M) job to achieve the guaranteed parameters in existing 02 nos. of Air Pre-Heaters (APH), Model 24.5 VIT, 1450 mm, 72Degree P.A. opening of regenerative vertical tri-sector rotary type with double sealing system and 4 layers of baskets (cold end, hot Intermediate, hot end bottom and hot end top) of total minimum height of 1700 mm along with all accessories, auxiliaries and associated Equipments, etc. for captive power plant (CPP) 120 MW of National Aluminium Company Ltd. (NALCO) at Angul, Odisha				
SL. NO.	DESCRIPTION OF ITEM	UNIT	QUANTITY	RATE/UNIT RS. PS.	TOTAL AMOUNT RS. PS.
A-01	Receipt of materials from BHEL/NALCO Stores, transporting to site of erection, dismantling of existing APH equipment to the extent required, transporting of scrap to NALCO scrap yard (with in the boundary), Erection, Testing, testing and Commissioning of new Air pre Heater of BHEL make 24.5 VIT, 1450 mm, 72 Degree P.A. opening of regenerative vertical tri-sector rotary type with double sealing system and 4 layers of baskets (cold end, hot Intermediate, hot end bottom and hot end top) as per Technical Specification, Drawings and as per instructions of BHEL Engineers, complete at NALCO CPP 1x120 MW, Unit-1 (as per enclosed annexures / specification) Note:- . Existing Guide Brg. Trunnion Shaft & Support Bearing assy. & its Trunnion Shaft, AC Motor, etc. shall be retained	Set	2		
TOTAL					
	% of Service Tax Payable extra If any to be indicated in this un-priced copy of the Price Bid				
TOTAL inclusive of Service Tax					

Signature of the contractor