

TENDER SPECIFICATION

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/KRSR-BLR U#6/1350	Unit #6, 210 MW MSPGCL Koradi

FOR

**JOB: ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW MSPGCL KORADI
VOLUME - I**

CONSISTING OF:

- Notice Inviting Tender,
- Volume-IA : Technical Conditions of Contract,
- Volume-IB : Special Conditions of Contract,
- Volume-IC : General Conditions of Contract
- Volume-ID : Forms & Procedures



Bharat Heavy Electricals Limited
(A Government of India Undertaking)
Power Sector - Western Region
345-Kingsway, Nagpur-440001

CONTENTS

Volume No	Description	No. of pages	Hosted in website bhel.com as files titled
NIL	Tender Specification Issue Details	3	(Part of <u>Vol-IA-1350</u>)
NIL	Notice Inviting Tender	16	(Part of <u>Vol-IA-1350</u>)
I-A	Technical Conditions of Contract	18	Vol-IA-1350
I-B	Special Conditions of Contract	47	Vol-IBCD-1350
I-C	General Conditions of Contract	29	(Part of Vol-IBCD-1350
I-D	Forms & Procedures	46	(Part of Vol-IBCD- 1350
II	Price Bid Specification	3	Vol-II-1350

Tender Specification Issue Details

TENDER SPECIFICATION

SI No	Tender Specification Number	Unit Number & Project
1	BHE/PW/PUR/KRSR-BLR U#6/1350	Unit #6, 210 MW MSPGCL Koradi

FOR

JOB: ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW MSPGCL KORADI

EARNEST MONEY DEPOSIT: Refer Notice Inviting Tender

LAST DATE FOR TENDER SUBMISSION: Refer Notice Inviting Tender

THESE TENDER SPECIFICATION DOCUMENTS CONTAINING VOLUME-I AND VOLUME- II ARE ISSUED TO:

M/s.

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PLEASE NOTE:

THESE TENDER SPECS DOCUMENTS ARE NOT TRANSFERABLE.

For Bharat Heavy Electricals Limited

AGM (Purchase)

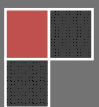
Place: Nagpur

Date :

1350

NOTICE INVITING TENDER

Bharat Heavy Electricals Limited



Ref:

T.S.No BHE/PW/PUR/KRSR-BLR U#6/1350

Date: 07.11.2014

NOTICE INVITING TENDER (NIT)
**NOTE: BIDDER MAY DOWNLOAD FROM WEB SITES
OR
PURCHASE TENDERS FROM THIS OFFICE ALSO**

To

Dear Sir/Madam

Sub : NOTICE INVITING TENDER

Sealed offers in two part bid system are invited from reputed & experienced bidders (meeting [PRE QUALIFICATION CRITERIA](#) as mentioned in Annexure-I) for the subject job by the undersigned on the behalf of BHARAT HEAVY ELECTRICALS LIMITED as per the tender document. Following points relevant to the tender may please be noted and complied with.

1.0 Salient Features of NIT

SL NO	ISSUE	DESCRIPTION	
i	TENDER NUMBER	BHE/PW/PUR/KRSR-BLR U#6/1350	
ii	Broad Scope of job	ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW MSPGCL KORADI	
iii	DETAILS OF TENDER DOCUMENT		
a	Volume-IA	<i>Technical Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc</i>	<i>Applicable</i>
b	Volume-IB	<i>Special Conditions of Contract (SCC)</i>	<i>Applicable</i>
c	Volume-IC	<i>General Conditions of Contract (GCC)</i>	<i>Applicable</i>
d	Volume-ID	<i>Forms and Procedures</i>	
e	Volume-II	<i>Price Schedule (Absolute value).</i>	<i>Applicable</i>
iv	Issue of Tender Documents	1. <u>Sale from BHEL PS Regional office at Nagpur</u> ∴ Start : 07/11/2014 Closes: 14/11/2014 , Time : 16: 00Hrs 2. From BHEL website (www.bhel.com) Tender documents will be available for downloading from website till due date of submission	<i>Applicable/ Not applicable</i>
v	DUE DATE & TIME OF OFFER SUBMISSION	Date : 15/11/2014 , Time : 11:00 Hrs Place : <u>BHEL PS Regional office at :Nagpur</u> Tenders being submitted through representative	<i>Applicable</i>

		shall be submitted at dispatch section of PSWR HQ Office after making entry/registration at the reception. For any assistance on the matter kindly contact following officials: Amit Kumar Shrivastava / Manager(Purchase) Nirmal P G /Asst. Engineer(Purchase)	
vi	OPENING OF TENDER	1 hours after the latest due date and time of Offer submission Notes: (1) In case the due date of opening of tender becomes a non-working day, then the due date & time of offer submission and opening of tenders get extended to the next working day. (2) Bidder may depute representative to witness the opening of tender	Applicable
vii	EMD AMOUNT	Rs 60,000/- (Rupees Sixty Thousand Only)	Applicable
viii	COST OF TENDER	Rs 2000/-.	Applicable
ix	LAST DATE FOR SEEKING CLARIFICATION	Atleast 3 days before the due date of offer submission Along with soft version also, addressing to undersigned & to others as per contact address given below Amit Kumar Shrivastava (Manager)- E-mail-amitks@bhhelpswr.co.in PH: 0712-3048651 Nirmal P.G (Asst. Engineer)- E-Mail-nirmalpg@bhhelpswr.co.in Ph: 0712-3048713	Applicable
x	SCHEDULE OF Pre Bid Discussion (PBD)	Date :	Applicable/Not applicable.
xi	INTEGRITY PACT & DETAILS OF INDEPENDENT EXTERNAL MONITOR (IEM)		Applicable/Not Applicable
xii	Latest updates	Latest updates on the important dates, Amendments, Correspondences, Corrigenda, Clarifications, Changes, Errata, Modifications, Revisions, etc to Tender Specifications will be hosted in BHEL webpage (www.bhel.com -->Tender Notifications →View Corrigendums) and not in the newspapers . Bidders to keep themselves updated with all such information	

2.0 The offer shall be submitted as per the instructions of tender document and as detailed in this NIT. Bidders to note specifically that all pages of tender document, including these NIT pages of this particular

tender together with subsequent correspondences shall be submitted by them, duly signed & stamped on each page, as part of offer. **Rates/Price including discounts/rebates, if any, mentioned anywhere/in any form in the techno-commercial offer other than the Price Bid, shall not be entertained.**

- 3.0 Unless specifically stated otherwise, bidder shall remit cost of tender and courier charges if applicable, in the form of Demand Draft drawn in favour of Bharat Heavy Electricals Ltd, payable at Power Sector Regional HQ at Nagpur issuing the Tender, along with techno-commercial offer. Bidder may also choose to deposit the Tender document cost by cash at the Cash Office as stated above against sl no iv of 1, on any working day; and in such case copy of Cash receipt is to be enclosed with the Techno Commercial offer. Sale of tender Documents shall not take place on National Holidays, holidays declared by Central or State Governments and BHEL PS HQ at Nagpur, Sundays and second/ last Saturdays
- 4.0 Unless specifically stated otherwise, bidder shall deposit EMD through Demand Draft/Pay Order in favour of Bharat Heavy Electricals Ltd, payable at Nagpur. For other details and for 'One Time EMD' please refer General Conditions of Contract.
- 5.0 **Procedure for Submission of Tenders:** The Tenderers must submit their Tenders to Officer inviting Tender, as detailed below:
- PART-I consisting of 'PART-I A (Techno Commercial Bid)' & 'PART-I B (EMD/COST of TENDER)' in two separate sealed and superscribed envelopes (ENVELOPE-I & ENVELOPE-II)
 - PART-II (Price Bid) – in sealed and superscribed envelope (ENVELOPE-III)
 - One set of tender documents shall be retained by the bidder for their reference
- 6.0 The contents for ENVELOPES and the superscription for each sealed cover/Envelope are as given below. **(All pages to be signed and stamped)**

Sl no	Description	Remarks
Part-I A		
	<p><u>ENVELOPE – I superscribed as :</u> PART-I (TECHNO COMMERCIAL BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION:</p> <p><u>CONTAINING THE FOLLOWING:-</u></p>	
i.	Covering letter/Offer forwarding letter of Tenderer.	
ii.	<p>Duly filled-in 'No Deviation Certificate' as per prescribed format to be placed after document under sl no (i) above.</p> <p><u>Note:</u></p> <p>a. In case of any deviation, the same should be submitted separately for technical & commercial parts, indicating respective clauses of tender against which deviation is taken by bidder. The list of such deviation shall be placed after document under sl no (i) above. It shall be specifically noted that deviation recorded elsewhere shall not be entertained.</p> <p>b. BHEL reserves the right to accept/reject the deviations without assigning any reasons, and BHEL decision is final and binding.</p> <p style="padding-left: 20px;">i). In case of acceptance of the deviations, appropriate loading shall be done by BHEL</p> <p style="padding-left: 20px;">ii). In case of unacceptable deviations, BHEL reserves the right to reject the tender</p>	

iii.	Supporting documents/ annexure/ schedules/ drawing etc as required in line with Pre-Qualification criteria. It shall be specifically noted that all documents as per above shall be indexed properly and credential certificates issued by clients shall distinctly bear the name of organization, contact ph no, FAX no, etc.	
iv.	All Amendments/Correspondences/Corrigenda/Clarifications/Changes/ Errata etc pertinent to this NIT.	
v.	Integrity Pact Agreement (Duly signed by the authorized signatory)	If applicable
vi.	Duly filled-in annexures, formats etc as required under this Tender Specification/NIT	
vii.	Notice inviting Tender (NIT)	
viii.	Volume – I A : <u>Technical</u> Conditions of Contract (TCC) consisting of Scope of work, Technical Specification, Drawings, Procedures, Bill of Quantities, Terms of payment, etc	
ix.	Volume – I B : Special Conditions of Contract (SCC)	
x.	Volume – I C : General Conditions of Contract (GCC)	
xi.	Volume – I D : Forms & Procedures	
xii.	Volume – II (UNPRICED – without disclosing rates/price, but mentioning only 'QUOTED' or 'UNQUOTED' against each item	
xiii.	Any other details preferred by bidder with proper indexing.	
PART-I B		
	ENVELOPE – II superscribed as: PART-I (EMD/COST of TENDER) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING:-	
i.	1. Earnest Money Deposit (EMD) in the form as indicated in this Tender OR Documentary evidence for 'One Time EMD' with the Power Sector Region of BHEL floating the Tender 2. Cost of Tender (Demand Draft or copy of Cash Receipt as the case may be)	
PART-II		
PRICE BID consisting of the following shall be enclosed		
	ENVELOPE-III superscribed as: PART-II (PRICE BID) TENDER NO : NAME OF WORK : PROJECT: DUE DATE OF SUBMISSION: CONTAINING THE FOLLOWING	
i	Covering letter/Offer forwarding letter of Tenderer enclosed in Part-I	
ii	Volume II – PRICE BID (Duly Filled in Schedule of Rates – rate/price to be entered in words as well as figures)	
OUTER COVER		

	<p>ENVELOPE-IV (MAIN ENVELOPE / OUTER ENVELOPE) superscribed as: TECHNO-COMMERCIAL BID, PRICE BID & EMD TENDER NO: NAME OF WORK: PROJECT: DUE DATE OF SUBMISSION:</p> <p>CONTAINING THE FOLLOWING:</p>	
i	<ul style="list-style-type: none"> ○ Envelopes I ○ Envelopes II ○ Envelopes III 	

SPECIAL NOTE : All documents/ annexures submitted with the offer shall be properly annexed and placed in respective places of the offer as per enclosure list mentioned in the covering letter. BHEL shall not be responsible for any missing documents.

- 7.0 Deviation with respect to tender clauses and additional clauses/suggestions in Techno-commercial bid / Price bid shall NOT be considered by BHEL. Bidders are requested to positively comply with the same.
- 8.0 BHEL reserves the right to accept or reject any or all Offers without assigning any reasons thereof. BHEL also reserves the right to cancel the Tender wholly or partly without assigning any reason thereof. Also BHEL shall not entertain any correspondence from bidders in this matter (except for the refund of EMD).
- 9.0 **BHEL reserve the right to reject a bidder based on their unsatisfactory past performance at any other project.**
- 10.0 Since the job shall be executed at site, bidders must visit site/ work area and study the job content, facilities available, availability of materials, prevailing site conditions including law & order situation, applicable wage structure, wage rules, etc before quoting for this tender. They may also consult this office before submitting their offers, for any clarifications regarding scope of work, facilities available at sites or on terms and conditions.
- 11.0 For any clarification on the tender document, the bidder may seek the same in writing or through e-mail, as per specified format, within the scheduled date for seeking clarification, from the office of the undersigned. BHEL shall not be responsible for receipt of queries after due date of seeking clarification due to postal delay or any other delays. Any clarification / query received after last date for seeking clarification may not be normally entertained by BHEL and no time extension will be given.
- 12.0 ~~BHEL may decide holding of pre bid discussion [PBD] with all intending bidders as per date indicated in the NIT. The bidder shall ensure participation for the same at the appointed time, date and place as may be decided by BHEL. Bidders shall plan their visit accordingly. The outcome of pre bid discussion (PBD) shall also form part of tender.~~
- 13.0 In the event of any conflict between requirement of any clause of this specification/ documents/drawings/data sheets etc or requirements of different codes/standards specified, the same to be brought to the knowledge of BHEL in writing for clarification before due date of seeking clarification (whichever is applicable), otherwise, interpretation by BHEL shall prevail. Any typing error/missing pages/ other clerical errors in the tender documents, noticed must be pointed out before pre-bid meeting/submission of offer, else BHEL's interpretation shall prevail.

- 14.0 Unless specifically mentioned otherwise, bidder's quoted price shall be deemed to be in compliance with tender including PBD.
- 15.0 Bidders shall submit Integrity Pact Agreement (Duly signed by authorized signatory who signs in the offer), **if applicable**, along with techno-commercial bid. This pact shall be considered as a preliminary qualification for further participation. **The names and other details of Independent External Monitor (IEM) for the subject tender is as given at point (1) above.**
- 16.0 The Bidder has to satisfy the Pre Qualifying Requirements stipulated for this Tender in order to be qualified. The Price Bids of only those bidders will be opened who will be qualified for the subject job on the basis of satisfying the Pre Qualification Criteria specified in this NIT as per Annexure-I (as applicable), past performance etc. and date of opening of price bids shall be intimated to only such bidders. BHEL reserves the right not to consider offers of parties under HOLD.
- 17.0 In case BHEL decides on a 'Public Opening', the date & time of opening of the sealed PRICE BID shall be intimated to the qualified bidders and in such a case, bidder may depute one authorised representative to witness the price bid opening. BHEL reserves the right to open 'in-camera' the 'PRICE BID' of any or all Unsuccessful/Disqualified bidders under intimation to the respective bidders.
- 18.0 Validity of the offer shall be for **six months** from the latest due date of offer submission (including extension, if any) unless specified otherwise.
- 19.0 BHEL reserves the right to decide the successful bidder on the basis of **Reverse Auction process**. In such case all qualified bidders will be intimated regarding procedure/ modality for Reverse Auction process prior to Reverse Auction and price will be decided as per the rules for Reverse Auction.
- However, if **reverse auction process** is unsuccessful as defined in the **RA rules/procedures**, or for whatsoever reason, then the sealed 'PRICE BIDS' will be opened for deciding the successful bidder. BHEL's decision in this regard will be final and binding on bidder.
- 20.0 On submission of offer, further consideration will be subject to compliance to tender & qualifying requirement and customer's acceptance, as applicable.
- 21.0 In case the bidder is an "Indian Agent of Foreign Principals", 'Agency agreement has to be submitted along with Bid, detailing the role of the agent along with the terms of payment for agency commission in INR, along with supporting documents.
- 22.0 The bidders shall not enter into any undisclosed M.O.U. or any understanding amongst themselves with respect to tender.
- 23.0 The bidder shall submit documents in support of possession of 'Qualifying Requirements' duly self certified and stamped by the authorized signatory, indexed and properly linked in the format for PQR. In case BHEL requires any other documents/proofs, these shall be submitted immediately.
- 24.0 The bidder may have to produce original document for verification if so decided by BHEL.
- 25.0 Order of Precedence
In the event of any ambiguity or conflict between the Tender Documents, the order of precedence shall be in the order below:

- a. Amendments/Clarifications/Corrigenda/Errata etc issued in respect of the tender documents by BHEL
- b. Notice Inviting Tender (NIT)
- c. Price Bid
- d. Technical Conditions of Contract (TCC)—Volume-1A
- e. Special Conditions of Contract (SCC) —Volume-1B
- f. General Conditions of Contract (GCC) —Volume-1C
- g. Forms and Procedures —Volume-1D

for BHARAT HEAVY ELECTRICALS LTD

AGM/Purchase

Enclosure

01. Annexure-1: Pre Qualifying criteria.
02. Annexure-2: Check List .
03. Annexure -4: Important Information
04. Other Tender documents as per this NIT.

ANNEXURE - 1

PRE QUALIFYING REQUIREMENTS

JOB	ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW MSPGCL KORADI
TENDER NO	BHE/PW/PUR/KRSR-BLR U#6/1350

SL NO	PRE QUALIFICATION CRITERIA	Bidders claim in respect of fulfilling the PQR Criteria	
		Name and Description of qualifying criteria	Page no of supporting document. Bidder must fill up this column as per applicability
A	Submission of Integrity Pact duly signed (if applicable)	NOT APPLICABLE	
B	<p><u>Technical</u> Bidder must have executed following works {i.e. Bidder must meet (B.1.1 or B.1.2 or B.1.3)} in the last seven (7) years as on latest date of bid submission:-</p> <p>B.1.1) Bidder must have, Executed RLA (Assistance will be sufficient) of minimum one unit of 110 MW or above, against single work order.</p> <p style="text-align: center;">OR</p> <p>B.1.2) Bidder must have, Executed overhauling of atleast one boiler Pr. Parts of rating 110MW or above against single work order of value minimum 15 lakhs.</p> <p style="text-align: center;">OR</p> <p>B.1.3) Bidder must have, Executed Overhauling of atleast one boiler of rating 110 MW or above against single work order.</p>	APPLICABLE	
C-1	<p><u>FINANCIAL TURNOVER</u> Bidders must have achieved an average annual financial turnover (Audited) of Rs.9 Lakhs or more over last three Financial Years (FY) i.e. 2011-2012, 2012-2013, 2013-</p>	APPLICABLE	

	2014.		
C-2	NETWORTH (only in case of Companies) Net worth of the Bidder based on the latest Audited Accounts as furnished for 'C-1' above should be positive	APPLICABLE	
C-3	PROFIT Bidder must have earned cash profit in any one of the three Financial Years as applicable in the last three Financial Years defined in 'C-1' above based on latest Audited Accounts.	APPLICABLE	
D	Assessment of Capacity of Bidder to execute the work as per sl no 9 of NIT (if applicable)	NOT APPLICABLE	By BHEL
E	Approval of Customer (if applicable) Note: Names of bidders (including consortium/Technical Tie up partners in case consortium bidding is permitted) who stand qualified after compliance of criteria A to D shall be forwarded to customer for their approval.	NOT APPLICABLE	BY BHEL
F	Price Bid Opening Note: Price Bids of only those bidders shall be opened who stand qualified after compliance of criteria A to E	APPLICABLE	BY BHEL
G	Consortium criteria	NOT APPLICABLE	
<p><u>Explanatory Notes for the PQR (unless otherwise specified in the PQR):</u></p> <ol style="list-style-type: none"> 1. Bidder to submit Audited Balance Sheet and Profit and Loss Account for the respective years as indicated against C-1 above along with all annexures 2. In case audited Financial statements have not been submitted for all the three years as indicated against C-1 above, then the applicable audited statements submitted by the bidders against the requisite three years, will be averaged for three years i.e total divided by three. 3. C-2:-NETWORTH : Shall be calculated based on the latest Audited Accounts as furnished for C-1 above. Net worth = Paid up share capital + Reserves. (Net worth is required to be evaluated in case of companies) 4. C-3:- PROFIT : shall be NET profit (PAT + Non cash expenditure viz depreciation) earned during any one of the three financial years as in C-1 above 5. Additional Criteria in respect of 'Technical' criteria of PQR (as in 'B' above) for Civil, Electrical, CI, unless otherwise specified:- <ol style="list-style-type: none"> 1. _____ Bidder should have executed similar work of any one of the following: <ol style="list-style-type: none"> a. _____ One (1) work of value not less than Rs XXX <li style="text-align: center;">_____ OR b. _____ Two (2) works of not less than Rs YYY <li style="text-align: center;">_____ OR c. _____ Three (3) works of not less than Rs ZZZ (Value XXX, YYY, ZZZ shall be as indicated by BHEL) 2. _____ 'Similar' work for criteria 5 above means <ol style="list-style-type: none"> a. _____ Civil or Structures or Civil & Structures or Chimney respectively as applicable to the tendered scope in respect of 'CIVIL' Works b. _____ Electrical works in respect of 'ELECTRICAL' c. _____ CI works in respect of 'CI' Works 			

<p>d. Material Handling and/or Management works in respect of 'MM' works</p>
<p>6. Time period for achievement of the 'Technical' criteria of PQR (as in 'B' above) will be the last 7 years ending on the 'latest date' of Bid submission</p> <p>7. 'EXECUTED' means the Vendor should have achieved the criteria specified in the Technical criteria of PQR (as in 'B' above) even if the Contract has not been completed or closed</p> <p>8. Unless otherwise specified, for the purpose of 'Technical' criteria of PQR (as in 'B' above), the word 'EXECUTED' means:</p> <ol style="list-style-type: none">1. "BOILER LIGHT UP" in respect of Boiler & Aux and ESP2. "SYNCHRONISATION" in respect of STG/GTG and "SPINNING" in case of HTG3. "STEAM BLOWING COMPLETION" in respect of at least Main Steam Line of Power Cycle Piping4. "HYDRAULIC TEST" of the system in respect of Structures, Pressure parts/IBR Piping5. "CHARGING" in respect of power Transformers, Bus ducts, HT/LT switchgears6. "Completion of RCC Shell and liner (steel or brick as per tendered scope) up to the HEIGHT specified using slip form" in case of RCC Chimney.7. Achievement of physical Quantities as per respective PQRs in respect of Civil & Structures and Piling Works8. 'Readiness for coal Filling" in respect of Bunker Structure Work. <p>9. Boiler means HRSG or WHRB or any other types of Steam Generator</p> <p>10. Critical/Power Cycle piping means Main Steam, Hot Reheat, Cold Reheat, HP Bypass, LP Bypass lines</p> <p>11. For the purpose of evaluation of the PQR, one MW shall be considered equivalent to 3.5TPH where ever rating of HRSG/BOILER is mentioned in MW. Similarly, where ever rating of Gas Turbine is mentioned in terms of Frame size, ISO rating in terms of MW shall be considered for evaluation.</p> <p>12. In case the experience/PO/WO certificate enclosed by bidders do not have separate break up prices for the E&C portion of Electrical and CI Works, (i.e. the certificates enclosed are for composite order for supply and erection of Electrical & CI and other works if any), then value of Erection and Commissioning for the Electrical & CI portion shall be considered as 15% of the supply & erection of Electrical & CI, unless otherwise specifically indicated in the PQR.</p> <p>13. Scope for capital overhaul of STG shall cover Bearing Inspection work and overhauling of all cylinders of the Turbine unless otherwise specifically indicated in the PQR.</p> <p>14. In case the tendered scope is not a Pulverised Fuel Boiler, experience of Oil/Gas Fired Boilers also can be considered unless otherwise specifically indicated in the PQR.</p> <p>15. The value of work (Experience submitted against PQR B) shall be updated as per the PVC indices for "All India Avg. Consumer Price Index for Industrial Workers" with base month as date of execution (completion of contract/work) and indexed upto two months prior to bid opening month.</p>

BIDDER SHALL SUBMIT ABOVE PRE-QUALIFICATION CRITERIA FORMAT, DULY FILLED-IN, SPECIFYING RESPECTIVE ANNEXURE NUMBER AGAINST EACH CRITERIA AND FURNISH RELEVANT DOCUMENT INCLUSIVE OF WORK ORDER AND WORK COMPLETION CERTIFICATE ETC IN THE RESPECTIVE ANNEXURES IN THEIR OFFER.

ANNEXURE - 2

CHECK LIST

NOTE:- Tenderers are required to fill in the following details and no column should be left blank

1	Name and Address of the Tenderer	
2	Details about type of the Firm/Company	
3.a	Details of Contact person for this Tender	Name : Mr/Ms Designation: Telephone No: Mobile No: Email ID: Fax No:
3.b	Details of alternate Contact person for this Tender	Name : Mr/Ms Designation: Telephone No: Mobile No: Email ID: Fax No:
4	EMD DETAILS	DD No: Date : Bank : Amount: <u>Please tick (√) whichever applicable:-</u> ONE TIME EMD / ONLY FOR THIS TENDER
5	Validity of Offer	TO BE VALID FOR SIX MONTHS FROM DUE DATE
		APPLICABILITY(BY BHEL)
		ENCLOSED BY BIDDER
6	Whether the format for compliance with PRE QUALIFICATION CRITERIA (ANNEXURE-I) is understood and filled with proper supporting documents referenced in the specified format	Applicable
		YES / NO
7	Audited profit and Loss Account for the last three years	Applicable
		YES/NO
8	Copy of PAN Card	Applicable
		YES/NO
9	Whether all pages of the Tender documents including annexures, appendices etc are read understood and signed	Applicable
		YES/NO
10	Integrity Pact	Not Applicable
		YES/NO

11	Declaration by Authorised Signatory	Applicable	YES/NO
12	No Deviation Certificate	Applicable	YES/NO
13	Declaration confirming knowledge about Site Conditions	Applicable	YES/NO
14	Declaration for relation in BHEL	Applicable	YES/NO
15	Non-Disclosure Certificate	Applicable	YES/NO
16	Bank Account Details for E-Payment	Applicable	YES/NO
17	Capacity Evaluation of Bidder for current Tender	Not Applicable	YES/NO
18	Tie Ups/Consortium Agreement are submitted as per format	Not Applicable	YES/NO
19	Power of Attorney for Submission of Tender/Signing Contract Agreement	Applicable	YES/NO
20	Analysis of Unit rates	Applicable	YES/NO

NOTE : STRIKE OFF 'YES' OR 'NO', AS APPLICABLE. TENDER NOT ACCOMPANIED BY THE PRESCRIBED **ABOVE APPLICABLE DOCUMENTS** ARE LIABLE TO BE SUMMARILY REJECTED.

DATE :
SIGNATORY

AUTHORISED
(With Name, Designation and Company seal)

ANNEXURE 4: **IMPORTANT INFORMATION**

1. **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 ----> Tender Notification -> List of Banned Firms)**
2. **All Statutory Requirements as applicable for this project shall be complied with.**
3. **Please take note of following Revised Tender Clauses:**
 - i. Notice Inviting Tender: SI No 9
 - ii. General conditions of Contract: Clause No 1.15.13 (New), Clause No 2.8.3, 2.8.4 and 2.8.5

4. Broad Terms & Conditions of Reverse Auction

In continuation to Clause 19.0 of NIT (Notice Inviting Tender) following are the broad terms and conditions of Reverse Auction is given in Annexure V of NIT:

- 4.1. Against this enquiry for the subject item/ system with detailed scope of supply as per enquiry specifications, BHEL may resort to "REVERSE AUCTION PROCEDURE" i.e., ON LINE BIDDING (THROUGH A SERVICE PROVIDER). The philosophy followed for reverse auction shall be English Reverse (No ties).
- 4.2. BHEL reserves the right to go for Reverse Auction (RA) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. All bidders to give their acceptance for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids. In case BHEL decides to go for Reverse Auction, only those bidders who have given their acceptance to participate in RA will be allowed to participate in the Reverse Auction. Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit „online sealed bid“ in the Reverse Auction. Non-submission of „online sealed bid“ by the bidder will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.
- 4.3. For the proposed reverse auction, technically and commercially acceptable bidders only shall be eligible to participate.
- 4.4. Those bidders who have given their acceptance for Reverse Auction (quoted against this tender enquiry) will have to necessarily submit 'online sealed bid' in the Reverse Auction. Non-submission of 'online sealed bid' by the bidder for any of the eligible items for which techno-commercially qualified, will be considered

as tampering of the tender process and will invite action by BHEL as per extant guidelines in vogue.

- 4.5. 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.
- 4.6. In case of reverse auction, BHEL will inform the bidders the details of Service Provider to enable them to contact & get trained.
- 4.7. Business rules like event date, time, bid decrement, extension etc. also will be communicated through service provider for compliance.
- 4.8. Bidders have to fax the Compliance form (annexure IV) before start of Reverse auction. Without this, the bidder will not be eligible to participate in the event.
- 4.9. In line with the NIT terms, BHEL will provide the calculation sheet (e.g., EXCEL sheet) which will help to arrive at "Total Cost to BHEL" like Packing & forwarding charges, Taxes and Duties, Freight charges, Insurance, Service Tax for Services and loading factors (for noncompliance to BHEL standard Commercial terms & conditions) for each of the bidder to enable them to fill-in the price and keep it ready for keying in during the Auction.
- 4.10. Reverse auction will be conducted on scheduled date & time.
- 4.11. At the end of Reverse Auction event, the lowest bidder value will be known on auction portal.
- 4.12. The lowest bidder has to fax/e-mail the duly signed and filled-in prescribed format for price breakup including that of line items, if required, (Annexure VII) as provided on case-to-case basis to Service provider within two working days of Auction without fail.
- 4.13. 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.
- 4.14. Bidders shall be required to read the "Terms and Conditions" section of the auctions site of Service provider, using the Login IDs and passwords given to them by the service provider before reverse auction event. Bidders should acquaint themselves of the "Business Rules of Reverse Auction", which will be communicated before the Reverse Auction.
- 4.15. If the Bidder or any of his representatives are found to be involved in Price manipulation/ cartel formation of any kind, directly or indirectly by communicating with other bidders, action as per extant BHEL guidelines, shall be initiated by BHEL and the results of the RA scrapped/ aborted.
- 4.16. The Bidder shall not divulge either his Bids or any other exclusive details of BHEL to any other party.
- 4.17. In case BHEL decides to go for reverse auction, the H1 bidder (whose quote is highest in online sealed bid) may not be allowed to participate in further RA process.

5. PVC is not applicable

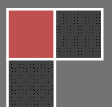
6. Progress Monitoring, Monthly Review and Performance Evaluation of Vol-I BCD is not applicable. Separate Performance evaluation as per SAS format shall be considered for evaluation purpose.

7. Overrun compensation is not applicable
8. Interest bearing recoverable advances is not applicable
9. Quantity variation is not applicable
10. Extra works in man-hours is not applicable

1350

TECHNICAL CONDITIONS OF CONTRACT (TCC)

BHARAT HEAVY ELECTRICALS
LIMITED



TECHNICAL CONDITIONS OF CONTRACT (TCC) CONTENTS

SI No	DESCRIPTION	Chapter	No. OF PAGES
Volume-IA	Part-I: Contract specific details		
1	Project Information	Chapter-I	1
2	Scope of Works	Chapter-II	3
3	Special Terms and Other Conditions	Chapter-III	3
4	T&Ps and MMEs to be deployed by Contractor	Chapter-IV	4
5	Quality Requirements	Chapter-V	1
6	Time Schedule	Chapter-VI	1
7	Terms of Payment	Chapter-VII	1
8	Taxes and other Duties	Chapter-VIII	2

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - I: Project Information

Project Information

- | | |
|------------------|---|
| 1. Purchaser | M/s MSPGCL Koradi |
| 2. Project Title | ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW
MSPGCL KORADI |

Location & Approach

- | | |
|----------------------------|--------|
| 3. Nearest Railway Station | Nagpur |
| 4. Nearest airport | Nagpur |

The Bidder shall visit site and get acquainted himself with the conditions prevailing at site before submission of the bid. The information given here in under is for general guidance and shall not be contractually binding on BHEL/ Owner. All relevant site data/information as may be necessary shall have to be obtained /collected by the Bidder.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II : Scope of Works

The work under the scope of these specifications is broadly as follows.

PRE SHUTDOWN WORK

1. Mobilization of site.
2. Arranging Gate pass & Accommodations to the contract personnel.
3. Shifting of material store and T&Ps.
4. Shifting of special T&Ps to Work Place.

SCOPE OF WORK:

ASSISTANCE DURING RLA OF BOILER UNIT#6, 210 MW MSPGCL KORADI

Preparatory Works for RLA study of Boiler U#6, 210 MW at MSPGCL Koradi

1	Scaffolding arrangement for selective locations like Water Wall & Extd water wall, WW hanger & Screen, SH hanger & screen, SCW & Extd.steam cooled wall, Critical Piping, Pent house areas, Down comer, De-super heater links etc.
2	Cleaning and washing of areas like Pent house, Furnace, IInd pass, Eco ash hopper, etc for inspection, Provision of big openings in Pent house at the left and right side etc.
3	Manpower for assisting the RLA study team, which includes 1 electrician, 1 fitter and 11 unskilled workers with tools for carrying out the RLA study. In addition to this separate gang of required man power to be engaged for carrying out cleaning/grinding/buffing, scaffolding and insulation removal during the RLA study.
4	Removal of drum internals & Cutting of tube samples and re-welding of spool pieces.

Detailed Scope are furnished below:

I AREAS FOR INSULATION REMOVAL

- Drum dished ends and weld areas including all stub connections.
- All headers and connecting pipes in pent house
- All headers and its links in second pass
- Water wall bottom and top headers and links to expose weld areas and stub welds.
- Desuperheater link pipes
- Critical piping and Feed water piping at feed control station to expose weld areas.

II FIBERSCOPIC INSPECTION:

For fiberoptic inspection, 2 or 3 number of stubs are to be cut in each of the following headers for the insertion of the fiberoptic probe: - [Stubs will be identified during the RLA study by the team member]

- Water wall bottom ring headers.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II : Scope of Works

- Water wall top headers
- Desuperheater links & SH header links – Through vents/drains
- All Superheater headers, Economiser outlet header and other low temperature headers(except second pass bottom headers & LTSH inlet header).

III PLATFORM AND SCAFFOLDING LOCATIONS:

FURNACE AREA: -

(From hopper to bottom of ceiling Super heater of various elevations especially at the following areas)

- All Soot Blower opening.
- Selective locations in WW at 4 elevations: 1 below burner block, 1 at middle of burner, 1 at top of burner block.
- WW hanger and screen – Approach to all areas
- Second pass wall areas - Approach to all areas
- SH hanger and screen – Approach to all areas
- All piping where NDT and hanger checks are to be carried out.

IV FOR REPLICATION WORK:

Surface cleaning and rough grinding are to be arranged for around 35 locations for SH headers, DESH links, Drum, critical piping, etc.

Location for Replication spots

Sl No	Component	No of spots
1	Steam Drum	5
2	LTSH outlet Header	2
3	Platen SH inlet Header	2
4	Platen SH outletHeader	2
5	Final SH inlet Header	2
6	Final SH outlet Header	2
7	MS Pipe from boiler outlet to Turbine inlet	8
8	HRH Pipe from boiler outlet to Turbine inlet	8
9	DESH links	4
	Total	35

BHEL experts shall carry out Polishing etc.

V FOR NDT CHECKS:

Removal of all the drum internals-Turbo separators and screen dryers etc as required at site.

Removal of external scaling at the header stub joints, ligaments, butt joints, attachment welds and all NDT locations by buffing wheel is to be arranged.

VI TUBE SAMPLE LOCATIONS:

Depending on site conditions, number of samples may vary and can be decided during RLA study.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter - II : Scope of Works

Location for tube sampling:

Sl No	Component	No of samples
1	Water wall (4 Sides)	4
2	Extd. Water wall	1
3	Steam Cooled wall & Extd SCW	3
	Total	8

VII Deaerator

1. Open the Manhole of the Deaerator Storage Tank.
2. Open the flange joint on the Deaerator Heater shell and lift the top portion of the Deaerator heater upwards, so that trays are accessible for dimensional measurement.
3. Necessary lighting arrangement inside the Deaerator during entry inside the Deaerator.

VIII Requirement of Chemicals/Consumables for RLA study of Boiler U#6 MSPGCL Koradi

Note : Arrangement of Chemicals and Consumables is in Bidders Scope

Sl. No	Chemical Name	Qty.Regd.
	For replication:	
1	Methanol - AR Grade	5 Ltr
2	Acetone - AR Grade	5 Ltr
3	Nitric acid- AR Grade	200 ml
4	Hifin fluid	2 Cans
	For NDT:	
1	Cleaner (or) acetone for industrial use (in 5 Ltr Can)	20 Ltr
2	Penetrant (1 Ltr can)	1 Ltr
3	Developer(Aerosol cans-420 ml)	25 Cans
4	MPI Powder	1 Kg
5	Grease	7 Kg
6	Cotton Waste	15 Kg

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

3. SPECIAL TERMS AND CONDITIONS:

- 1.0. The time schedule is essence of this contract. Subcontractor should complete the all work within 10 days of tight schedule
- 2.0. All welding electrode (special type also) required for the welding will be bidder's scope.
- 3.0. The various setting, clearances, adjustments and benchmarks will be restored to the extent possible during rectification to the condition as per the erection and commissioning log sheets available with customer. If however we are not able to produce erection / commissioning log sheets, efforts will be made to attend the best possible parameter or the conditions as observed at the time of dismantling of the equipment in consultation with us.
- 4.0. Subcontractor must prepare PERT CHART/BAR CHART. Daily monitoring will be done jointly and log sheets of important activities should be noted down and signed jointly.
- 5.0. All the works shall be carried out as per the instructions and to the satisfaction of the Engineer In-charge.
- 6.0. The contractor will attend contributory to faulty and poor workmanship during commissioning and trial run of the equipment.
- 7.0. Round the clock working under expert supervision shall be ensured by the contractor deploying two equal parallel strength of groups in 12 hrs. Shift with equal T&P for all the jobs so as to complete the work in stipulated period or earlier.
- 8.0. It is the responsibility of contractor to keep the plant, equipment, machinery and surrounding area clean.
- 9.0. The names of working persons like Site in-charge, supervisors, foreman, main fitters to be deployed during the job with full details has to be submitted stating their area of work and experience and specialization of the work to site in-charge before the start of work. BHEL may ask to change/delete the person not found suitable for the work at any point of time during execution of job. For any addition and deletion of the working person prior permission from BHEL shall be taken.
- 10.0. Subcontractor has to ensure that all the key persons must continue till completion of job i.e. machine comes on load. Subcontractor manpower should remain at site for a period of three days after machine comes on full load.
- 11.0. Mobilization of full strength shall be done three days before Shutdown of unit.
- 12.0. Work distribution sheet for all the workers/supervisors deployed shall be submitted to BHEL one day in advance on daily basis.
- 13.0. Subcontractor should mobilize additional resources such as plant, equipments, material as may be required by site in-charge to improve the progress of the work if the progress of the work is not satisfactory.
- 14.0. Subcontractor should get registered under relevant sales tax and or work contract Act (VAT) where the jobs are executed.
- 15.0. Party has to quote lump sum rate for all activities mentioned in the price bid as the actual quantities may vary during overhauling of the unit for which the contractor is not permitted to raise any dispute or claims. Items mentioned as optional will be taken up depending on condition, availability of spares and requirement.
- 16.0. Radiography and stress relieving, wherever mentioned are in the scope of the contractor.
- 17.0. Scrap & insulation etc. is to be shifted to scrap disposal area as indicated by the Engineer-in-charge.
- 18.0. One administrative personnel to control the resources and attendance of the workers to be ensured.
- 19.0. Contractor shall arrange certified HP welder for welding job whose welding test will be conducted.
- 20.0. Argon, Oxy- Acetylene gas shall be arranged by the contractor with cutting/welding set / argon welding set and other welding appliances.
- 21.0. If the duration of work continues beyond stipulated period due to any reason, no claim for compensation will be entertained.
- 22.0. The work details are brief & for Subcontractor knowledge only. Subcontractor will have to do all the related works as per requirement.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

- 23.0. The contractor will be responsible to pay the damages to the property of Board or individual caused by his worker during the course of contract. If the contractor fails to pay the same it will be recovered from his bill.
- 24.0. No compensation claimed for idle labor for any reason will be entertained by BHEL.
- 25.0. All general tools and plants for execution of the work will have to be arranged/ maintained by the contractor at his own cost & risk.
- 26.0. In normal course, the interpretation of the under signed on any matter or decision given by him on any disputable points will be final and binding on the contractor.
- 27.0. Successful bidder is to obtain labor license before the start of the work.
- 28.0. Successful bidder is to obtain necessary "No Dues" certificate before de-mobilization from site.
- 29.0. Successful bidder has to arrange Site mobile recharge till the site closing.
- 30.0. Completion of all the activities listed in the scope within a tight schedule of 10 days Start of Work to Completion of Work
- 31.0. Sufficiently adequate man power T&P and other resources should be mobilized by the contractor to operate round the clock work progress with standby technicians to be deployed immediately if need arises. Offer should be submitted considering these requirements.
- 32.0. Accommodation for the sub-contractor's manpower will be provided if made available by the customer as per the applicable charges.
- 33.0. Scaffolding pipes and Cup-Locks as well as 40 mm thick wooden planks are to be arranged by Sub-contractor for various platforms.
- 34.0. Adequate numbers of tarpaulin are to be arranged by the sub-contractor for covering of various equipments during insulation removal / application

3.2. LIASION WITH ALL STATUTORY AUTHORITIES:

- a) Compliance of statutory provisions, whether mentioned in this contract or not shall be binding on the contractor.
- b) If there is any change in labour laws after the contract has been awarded, then the new law shall automatically be binding on the contractor.
- c) No additional financial compensation shall be paid by BHEL to the contractor on account of increased expenditure caused by a) and b) above.
- d) Liasoning with local commercial tax dept. to obtain Coml. Tax exemption certificate.

3.3 PAYMENT TO WORKERS:

- a) Payment to workers shall be done in the presence of BHEL/ NTPC representative.
- b) The contractor shall intimate the day of payment at least three days in advance in writing along with copy of the pay sheet and attendance cards.
- c) All workmen shall be covered by PF Rules irrespective of their period of employment.
- d) Payment shall be made inside the plant premises and during office hours of NTPC.

3.4 SUBMISSION OF DOCUMENTS:

The contractor shall submit following documents at appropriate time either before or during the execution of the work and as directed by Site in-Charge.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

1. Test certificates of Pulling and Lifting machines and appliances.
2. Details of workers to be deployed with name, address, category.
3. Details of supervisory staff to be deployed.
4. Authorization for receipt of materials and for signing of Measurement Books etc,
5. Labour license specific to the contract.
6. List of T&P brought into plant premises along with their serial numbers and dates/years of purchase.
7. All the Staff/Workers deputed for the Job should have Insurance Cover and document in this regard should be submitted along with 1st RA Bill.
8. List of consumables brought into plant premises along with their serial numbers and dates/years of purchase, along with test certificates wherever applicable.
9. Insurance policy for the workers to be deployed in this contract.
10. Safety undertaking.
11. Copy of ESI certificate to be furnished.
12. Proof of Payment of Service Tax.

The contractor shall submit following documents in report form within 15 days from commissioning of unit after the overhaul/shut down work is completed (except Sl.No.11 to 12 which are required before final bill is processed):

- Details of work executed.
- Measurements against different schedules in compiled form.
- Material issue details.
- Material consumption details.
- Material returns details.
- Details of retrenchment benefits given to workmen.
- Details of issue of PF slip to workmen.
- Details of settlement of accident benefits if any to workmen
- Copies of pay sheets to workmen.
- Details and proof of remittance of PF to workmen (before final bill).
- No dues clearance from different stores of customer
- Valid labour license

3.5. Security Deposit

Please refer our "General and special conditions of contracts".

d. Other terms and conditions

- 1.0 Successful bidder has to extend manpower assistance for minor cleaning/scraping, etc. for carrying vibration measurement and putting balance weights during Trim Balancing at site
- 2.0 A copy of tender document with each page duly signed and stamped shall be submitted along with your offer as a token of your unconditional acceptance to this tender condition. Also any deviation to the tender conditions shall be submitted in a separate paper duly signed by the bidder, any overwriting / correction by the bidder on the tender will not be recognized and the offer may be rejected on this ground.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – III: SPECIAL TERMS AND OTHER CONDITIONS

- 3.0 General and special conditions of contract' enclosed herewith will be fully applicable, except otherwise stated in this enquiry. In case of any conflict, the conditions specified in this enquiry letter will prevail over that of the 'General and special conditions of contract'

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – IV: T&Ps and Consumables to be deployed by Contractor

4.0 LIST OF MANPOWER REQUIRED

Sl.No	Manpower	Category	No. of Persons
1.	Site-in charge	Site-in charge	1
2.	Supervisor	Graduate	2
3.	Store Keeper	Non-Graduate	1
4.	HP Welder	IBR	1
5.	Welder (Non-IBR)	Skilled	1
6.	Gas cutter	Skilled	2
7.	Fitter	Skilled	2
8.	Electrician	Semi-Skilled	2
9.	Jr.Filter	Semi-Skilled	2
10.	Insn.Lagger/ Carpenter	Semi-Skilled	2
11.	Grinder Man	Semi-Skilled	4
12.	Rigger	Semi-Skilled	4
13.	Helper	Un-Skilled	15

This is an indicative list; the sub-contractor shall deploy adequate manpower to carry out the work round the clock and as per requirement of the site during execution of the Job.

Note: Site in-charge should be qualified Engineer, B.E. (Mechanical) and all the supervisors should have diploma in engineering.

Successful bidder has to arrange suitable mobile communication facility for BHEL site-in charge

4.1 Man power & T&P:

1. Adequate manpower along with T&P should be deployed at site. All the T&P required for the work shall be arranged by the contractor and all T&P should reach the site 3 days before the shutdown of the unit. All the measuring instruments shall be duly tested / calibrated and valid certificate to that effect should be submitted to our Site In-charge before start of the work.
2. A deployment plan along with experience and name of the Site In-charge, Engineers, Supervisors, Foreman and main technicians to be submitted on per shift basis.

a. Statutory Inspection

Please refer General and Special Conditions of Contract. In addition to it the scope includes getting the approvals from the statutory authorities (like IBR, smoke nuisance inspector, anti-pollution authorities, labour officials). This includes arranging for inspection visits of such authorities periodically as per requirement, submitting documents etc. and payment of fees connected with it.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and Consumables to be deployed by Contractor

b. Safety:

Strict Safety measures have to be followed at Site.

Contractor shall also adhere to all the safety provisions of our customer. In case violation of any provision at site fine of Rs.500/- to Rs.2000/- at the discretion of our site in-charge shall be imposed for each of such occasion and shall be recoverable from the contractor's bill.

4.2 LIST OF TOOLS AND PLANTS TO BE ARRANGED BY CONTRACTOR

01. Try square.
02. Vernier calipers, (150 and 300 mm), measuring steel tapes and 5 meters steel rulers.
03. Precision spirit level (with micro head).
04. 2 sets of D.E. and Ring spanners (6-36mm).
05. 2 sets of box spanners (6 to 20mm and 22-50mm).
06. Allen keys of various sizes (from 2mm. onwards).
07. D.P.Test Kit (with consumables).
08. Crowbars tin cutters, pliers (cutting plier, nose plier grip plier circlip-outside and inside).
09. Screw drivers and sledge hammers – 10 lbs – 1 lbs.
10. Adjustable wrenches, pipe wrenches and heck saws.
11. Single ended spanners (36 Mm and above).
12. Flat, half round, triangular bearing scrappers-8", to 12".
13. Files flat round, half round and square, rough and smooth (sizes 6", 9" and 12").
14. Bench Grinders, straight grinders GQ4 and GQ6, Angle grinders.
15. Flexible grinders with grinding stones and cutters of different Shapes and sizes, Angles Grinders and Sander machine.
16. Number punch, letter punch, centre punch and hole punches etc.
17. Steel wire brushes, wire brush wheels, nylon wire brushes and Painting bushes.
18. Lifting devices eye bolts, D-shackles, slings of various sizes Guide rods etc.
19. Chain pulley blocks upto 5 tons, 2 tons pull/lift.
20. Copper/Brass rods dia. ½" to 1 ½"X450 mm.
21. Tap and die sets 6 to 36 mm.
22. Torch light/hand lamps with cables, 230/24 V transformer.
23. Hand glover-asbestos, Manila rope, asbestos cloth leather and Rubber gloves.
24. Set of needle files.
25. Air blower – electric.
26. Electric drills – ¼", ½", and 5/8".
27. Ball pen hammer of various sizes.
28. Gas cutting and heating set with torches regulators, hoses and cylinder minimum two sets).
29. Arc welding generator/rectifiers with regulator, cables, Electrode holders and shields, TIG welding holders.
30. Pneumatic – grinders.
31. Hose pipes for compressed air.
32. Bench vices.
33. Electric switchboards and flood light arrangements with fuse boxes and isolating switches,

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – IV: T&Ps and Consumables to be deployed by Contractor

Plugs and sockets.

34. In addition to above T and P contractor will be required to fabricate fixtures such as pullers etc. for removal of any other equipments related to the scope of work.
35. Pedestal fans/air coolers.
36. Wooden sleepers.
37. Wooden Planks.
38. Magnifying glass.
39. Plastic helmets, Fiber helmet.
40. Gas cutting/welding goggles, grinding goggles.
41. Tarpaulin.
42. Any other T and P as per requirement and as per our General and special conditions of Contracts.
43. Scaffolding materials

NOTE:

1. The above list is only indicative and not exhaustive. Arrangement for any other T and P required for completion of the job shall be the responsibility of the contractor and shall be arranged by him.
2. All the tools and tackles/measuring instruments shall be duly tested/calibrated and valid certificate to that effect should be submitted to our site in-charge before the start of work.

TECHNICAL CONDITIONS OF CONTRACT (TCC)
Chapter – IV: T&Ps and Consumables to be deployed by Contractor

4.3 CONSUMABLES TO BE ARRANGED BY CONTRACTOR

(The list is indicative only and not exhaustive)

01. Kerosene oil.
02. Rustolene.
03. Petrol/white Petrol/Benzene/CRC.
04. Grease/Graphite Grease.
05. Hacksaw Blades.
06. Waste cloth/Cotton.
07. Marking/lint free cloth/Muslin.
08. Asbestos cloth/Asbestos cord.
09. Prussian blue.
10. Graphite (flaked) powder/Molykote/Mosil.
11. Cardiom compound.
12. Holdtite/shellac/Gasket sealing compound.
13. Lead wire 1.0 m/1.5 mm/0.5 mm.
14. Liquid soap.
15. Carborandum grinding paste coarse/fine/Diamond lapping paste.
16. Emery papers/Rolls.
17. Cutoff wheels.
18. Grinding wheels.
19. Oil stones, Mounted wheels, rotary cutters.
20. D. P. test chemicals.
21. Gas Cylinders for cutting/welding.
22. Chalk pieces, marking pens, thermo chalks upto 400c
23. Insulation tape, Johnson Tapes.
24. Sander discs and wheels.
25. Polyethylene sheets.
26. Araldite, M. Seal, Instabond, Dendrite.
27. Electric fuse wire, cables for the connections
28. 2.5 mm² Cu cable (flexible) of 200 mtr. length.

NOTE:

The above list is only indicative & not exhaustive. Arrangement for any other consumables required for completion of the job shall be the responsibility of the contractor & shall be arranged by him.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – V: QUALITY REQUIREMENT

QUALITY REQUIREMENT

- 1.0 Various inspection/ quality control / quality assurance procedure/ methods at various stages will be as per BHEL/ customer quality control procedure/ codes/ IBR 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 /radiography / progress of work etc. and the same shall be submitted to BHEL. Also, daily reports 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 indicating 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.
- 6.0 Total quality is the watchword of the work and contractor shall strive to achieve the quality standards, procedures laid down by BHEL. He will follow the instructions as per BHEL drawings and quality standards.
- 7.0 The welder's performance will be reviewed from time to time as per the BHEL/ IBR standards and any welder not performing to the standards set by BHEL/ IBR standards will be removed from working, Contractor shall arrange for the alternate welders immediately.
- 8.0 **STAGE INSPECTION BY BHEL / CUSTOMERS ENGINEERS**
Apart from day-to-day inspection/ stage inspection of equipments by BHEL engineers, the equipments may be checked at various stages by customer's engineers and quality assurance teams. Contractor shall arrange all labour, tools/tackles etc. for such inspections free of cost.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter – VI: Time Schedule

6.1 TIME SCHEDULE & MOBILIZATION

6.1.1 INITIAL MOBILIZATION

After receipt of fax LOI, Contractor shall discuss with Project Manager / Construction Manager/BHEL In charge regarding initial mobilization. A small team of manpower consisting of riggers, welders, fitters, helpers along with T& P has to be mobilized 3 days in advance before shutdown of the unit for making necessary arrangements for installation & testing of winches, chain pulley blocks etc. Full-fledged team shall be mobilized one week before shutdown of the unit

6.1.2 MOBILIZATION FOR ERECTION, TESTING, ASSISTANCE FOR COMMISSIONING ETC.

The activities for Overhauling shall be started as per directions of Construction Manager/BHEL In charge of BHEL. Contractor shall mobilize further resources (in addition to those required for activities under clause no. 6.1.1) as per requirement to commence the work of erection, testing, Overhauling etc. of boiler and auxiliaries and progressively augment the resources to match schedule of the project.

The entire work of overhauling shall be completed within a period of **10 days** (Start of Work to Completion of Work).

- ◆ The tentative outage schedule of the Unit as informed by MSPGCL Koradi shall be from **25 Nov. 2014**.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VII: Terms of Payment

7.0 Payment will be released on completion of activities as below:

7.1 100 % (excluding Retention Money) after the Mobilization, Assistance during RLA Study, Completion of all work including removal of all Scaffolding Material and Clearing of site, submission of Insurance & Labour License and also on payment of all dues and submission of all the documents like No Dues certificate from Customer, EPF challan, Insurance, Labour License, Labour Payment sheets, proof of payment of service tax etc). (5% for T & P and consumables, 5% for Deployment of manpower). Penalty of 1% per day of the total contract value will be levied for improper mobilization of man power and 1% per day for T & P and consumables separately subject to maximum 10% of the contract value shall be deducted from your bill

Note: While submitting invoices, Vendor should mention their Bank Account No. on his invoices for making e-payment.

Note:

1. Penalty of 1% per day of the total contract value will be levied for improper mobilization of man power and 1% per day for T & P and consumables separately subject to maximum 10% of the contract value shall be deducted from contractor's bill
2. While submitting the invoices, Vendor should mention their Bank Account No. on each of their invoices for the purpose of making e-payment.

7.2 Retention money: Retention amount as indicated in Clause 2.22.1 of Vol. I C 'General Conditions of Contract'.

The bill due for payment shall be submitted to the Engineer in-charge of BHEL at site for necessary verification and processing through proper channel. It may be noted that payment will be released from the office of the RSM/Nagpur after minimum fifteen days from the date of receipt of the duly verified bill from site.

7.3 Performance Guarantee Period for Workmanship: Guarantee Period as indicated in Clause 2.24.1 of 'General Conditions of Contract' shall be **90 Days**.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

8.0 TAXES, DUTIES, LEVIES (Consolidated Rev 03 dated 09/04/2013)

8.1. For All types of works excepting works covered under sl no 8.2

8.1.1

The contractor shall pay all (save the specific exclusions as enumerated in this contract) taxes, fees, license charges, deposits, duties, tools, royalty, commissions or other charges which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit.

However, provisions regarding Service Tax and Value Added Tax (VAT) on output services and goods shall be as per following clauses.

8.1.2 Service Tax & Cess on Service Tax

Contractor's price/rates shall be exclusive of Service Tax and Cess on Services. In case, it becomes mandatory for the contractor under provisions of relevant act/law to collect the Service Tax & Cess from BHEL and pay the same to the concerned tax authorities, such applicable amount will be paid by BHEL at the prevailing Service Tax Rate (presently 12.36 %) on the admitted bill value.

Contractor shall submit to BHEL documentary evidence of Service Tax registration certificate specifying name of services covered under this contract. Contractor shall submit serially numbered Service Tax and Cess Invoice, signed by him or a person authorized by him in respect of taxable service provided, and shall contain the following, namely,

1. The name, address and the registration number of the contractor,
2. The name and address of the party receiving taxable service,
3. Description, classification and value of taxable service provided and,
4. The service tax payable thereon.

All the Four conditions shall be fulfilled in the invoice before release of service tax payment.

Wherever, more than one route/option are available for discharge of service tax liability under a particular service, (e.g. "works contract Service"), contractor shall obtain prior written consent from BHEL site before billing the amount towards Service Tax.

8.1.3 VAT (Sales Tax /WCT)

As regards Value Added Tax (VAT)/CST on transfer of property in goods involved in Works Contract (previously known as Works Contract Tax) applicable as per local laws, the price quoted by the contractor shall be inclusive of the same and in no case input or output VAT/CST will be reimbursed extra.

In any case the Contractor shall register himself with the respective Sales Tax authorities of the state and submit proof of such registration to BHEL along with the first RA bill. Contractor will submit all the details of VAT/CST paid for the contract in the prescribed format of the respective state VAT laws. Also, the contractor will issue the tax Invoices to BHEL as per the Tax laws of respective state on monthly basis. Contractor shall also be required to furnish to BHEL necessary proof of VAT remittance on monthly basis.

Deduction of tax at source shall be made as per the provisions of law and is to be construed as an advance tax paid by the contractor and no reimbursement thereof will be made.

TECHNICAL CONDITIONS OF CONTRACT (TCC)

Chapter-VIII: Taxes and Other Duties

Further, if BHEL, at the instance of customer or otherwise adopts the specific route for discharging output VAT liability itself, benefit of the reduction in liability of the contractor will be passed on to BHEL.

In case, BHEL is forced to pay any VAT liability on behalf of contractor, the same will be recovered from contractor's bill or otherwise as deemed fit

8.2 'Enabling Works'

The contractor shall pay all (save the specific exclusions as enumerated in this contract) taxes, fees, license charges, deposits, duties, tools, royalty, commissions or other charges which may be levied on the input goods & services consumed and output goods & services delivered in course of his operations in executing the contract. In case BHEL is forced to pay any of such taxes, BHEL shall have the right to recover the same from his bills or otherwise as deemed fit. (i.e. rates quoted by bidder shall be inclusive of Service Tax, VAT/WCT and all other taxes and duties)

However, Since the proposed work is in the nature of 'Works Contract service' as per Service tax law, Hence, For non-corporate contractors being Individual, HUF, Proprietary Firm, Partnership Firm or Association of Persons (AOP), BHEL shall recover the applicable Service Tax under reverse charge mechanism from the contractor and remit the same with the Government as per the provisions of Law. Necessary advice/confirmation of remittance shall be issued to the contractor. The contractor shall not be eligible for any refund/reimbursement of such service tax from BHEL. It shall be the responsibility of the contractor to submit proper invoice giving all the requisite details as per Service Tax Law for the determination of the service tax liability of BHEL under reverse charge mechanism. BHEL reserves the right to determine such liability based on the invoice submitted by the contractor or otherwise independently and remittance of the same with the Government.

8.3 New Taxes/Levies

In case the Government imposes any new levy/tax on the output service/ goods/work after award of the contract, the same shall be reimbursed by BHEL at actual.

In case any new tax/levy/duty etc. becomes applicable after the date of Bidder's offer, the Bidder/Contractor must convey its impact on his price duly substantiated by documentary evidence in support of the same before opening of Price Bid. Claim for any such impact after opening the Price Bid will not be considered by BHEL for reimbursement of tax or reassessment of offer.

No reimbursement/recovery on account of increase/reduction in the rate of taxes, levies, duties etc. on input goods/services/work shall be made. Such impact shall be taken care of by the Price Variation/Adjustment Clause (PVC) if any. In case PVC is not applicable for the contract, Bidder has to make his own assessment of the impact of future variation if any, in rates of taxes/duties/ levies etc. in his price bid.